

## Shock Physics Papers 1992

- 1992, Abbott, R.D. and Bjorkman, M.D. "Momentum transfer in the one-dimensional impact of spaced plates", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 983-986, publ. Amsterdam, Elsevier
- 1992, Abeyaratne, R. and Knowles, J.K. "On the propagation of maximally dissipative phase boundaries in solids" *Quart. Appl. Math.* 50 149-172
- 1992, Adadurov, G.A., Gubin, S.A., Odintsov, V.V. and Sergeev, S.S. "Calculations of thermodynamic states behind shock waves and in isentropically expanding heterogeneous mixtures" *Sov. J. Chem. Phys.* 9 2773-2790
- 1992, Advani, A.H., Thadhani, N.N. and Murr, L.E. "Synthesis of isomorphous copper-nickel and immiscible copper-niobium materials by shock compression" *Scripta metall. mater.* 27 29-34
- 1992, Ahrens, T.J. and Rubin, A.M. "One- and three-dimensional impact induced tensional failure in rock", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 579-582, publ. Amsterdam, Elsevier
- 1992, Ahrens, T.J., Bond, G.M., Yang, W. and Liu, G. "Shock consolidation of diamond", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 339-351, publ. New York, Marcel Dekker
- 1992, Ahrens, T.J. "Shock-induced optical radiation from solids", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 835-843, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Aida, S., Fujimoto, K., Kuwahara, M. and Takayama, K. "Experimental studies on the destructability of impacted stones", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 1187-1192, publ. Berlin, Springer
- 1992, Aidun, J.B. and Gupta, Y.M. "Analysis of Lagrangian particle velocity gauge measurements", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 865, publ. Amsterdam, Elsevier
- 1992, Aizawa, T., Tanaka, K. and Kihara, J. "Theoretical and experimental evaluation of shock compaction with chemical reaction for TiAl intermetallics", in "Proc. Int. Symp. on Impact Engineering", ed. I. Maekawa, pp. 491-496, publ. Sendai, Japan, ISIE
- 1992, Aizawa, T., Tamagawa, J., Tanaka, K. and Kihara, J. "Explosive powder forming of TiAl intermetallic compound system", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 1313-1321, publ. Berlin, Springer

- 1992, Alekseev, D.V. "Excitation of polarization in solids having a diffusion conduction mechanism during propagation of a shock wave" *Sov. Phys. Solid State* 34 195-198
- 1992, Allan, N.L., Braithwaite, M., Cooper, D.L., Mackrodt, W.C. and Wright, S.C. "The calculated behaviour of periclase (MgO) at high temperatures and pressures", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 53-56, publ. Amsterdam, Elsevier
- 1992, Altshuler, L.V. "Shock waves and extreme states of matter", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 3-14, publ. Amsterdam, Elsevier
- 1992, Altshuler, L.V. "Viscosity of water and glycerin behind a shock wave front", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 509-512, publ. Amsterdam, Elsevier
- 1992, Anderson, M.U. "Response of the polymers Kel-F, polysulfone, high density polyethylene and PMMA to shock loading and release from 0.3 to 2.4 GPa", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 875-878, publ. Amsterdam, Elsevier
- 1992, Andreev, V.G., Veroman, V.Y., Denisov, G.A., Rudenko, O.V. and Sapozhnikov, O.A. "Nonlinear acoustical aspects of extracorporeal lithotripsy" *Sov. Phys. Acoust.* 38 325-328
- 1992, Andreyev, V., Nikityuk, N. and Leshchenko, O. "Shock waves configurations in cylindrical loading arrangements: Computer simulation", in "Recent Trends in High Pressure Research", ed. A.K. Singh, pp. 869-871, publ. New Delhi, India, Oxford & IBH Publishing Co. PVT Ltd.
- 1992, Anon. "Tests for determining failure criteria of ceramics under ballistic impact", ADA 256 652, US Army Research Office, Research Triangle Park, North Carolina
- 1992, Apazidis, N. "Control of pressure distribution in shock generators with elliptic and parabolic cross-sections", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 287-291, publ. Berlin, Springer
- 1992, Araki, M. and Leiber, C.O. "Linear relation between shock velocity and pressure in relation to the Grüneisen parameter", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 547-550, publ. Amsterdam, Elsevier
- 1992, Aratani, S. and Ojima, H. "Effect of shock waves on fracture and quenching in tempered glass", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 1277-1282, publ. Berlin, Springer
- 1992, Armstrong, R.W. "Rôles possibles des dislocations dans les détonations par choc dans les cristaux énergétiques" *Rev. Scient. Tech. Defence* 16(2) 162-165

- 1992, Arnold, W. "Influence of twinning on the elasto-plastic behavior of armco iron", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 539-542, publ. Amsterdam, Elsevier
- 1992, Arnold, W. "Dynamisches Werkstoffverhalten von Armco-Eisen bei Stoßwellenbelastung", PhD thesis, Univ. of Düsseldorf
- 1992, Asay, B.W., Ramsay, J.B., Anderson, M.U. and Graham, R.A. "Shock compression of Dupont Detasheet at low stress", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 679-682, publ. Amsterdam, Elsevier
- 1992, Asay, J.R. and Chhabildas, L.C. "Role of shock compression technique for scientific and engineering studies", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 220-226, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Asay, J.R., Chhabildas, L.C. and Furnish, M.D. "The use of high velocity launchers for scientific and engineering studies", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 103-111, publ. Berlin, Springer
- 1992, Aseev, A.V., Makarov, G.E. and Stepanenko, S.V. "Experimental investigation of the dynamic behavior of tubular samples of composite fiber materials at the limit of carrying capacity" J. Appl. Mech. Tech. Phys. 33 447-454
- 1992, Astiz, M. and Mondragon, A. "Universal form of the incomplete equation of state of strong shock-compressed materials" Rev. Mex. Fis. 38 (suppl. 1) 18-25
- 1992, Astroshenko, S.A. and Meshcheryakov, Y.I. "Anomalous shear localization initiated by a shock load" Sov. Tech. Phys. Letts 18 469-470
- 1992, Atabaev, K., Mamadaliev, N., Khanov, R.K. and Shamgunov, S.D. "Numerical investigation of the interaction of a plane wave with a multilayered cylinder in the ground" J. Appl. Mech. Tech. Phys. 33 758-767
- 1992, Attetkov, A.V., Boiko, M.M., Voldaev, N.A., Levantovskii, A.V., Solovev, V.S. and Tebyakin, V.M. "Rheology of wave deformation of powdery octanite under dynamic loading" Combust. Explos. Shock Waves 28 640-643
- 1992, Attetkov, A.V., Lazarev, V.V., Molyanov, A.Y. and Solovev, V.V. "One case of strengthening a shock wave in loading of a condensed medium with an explosion" Strength Mater. 24 479-482
- 1992, Attia, A.V., Moran, B. and Glenn, L.A. "Comparative yield estimation via shock hydrodynamic methods", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 281-284, publ. Amsterdam, Elsevier
- 1992, Austing, J.L., Dihu, R.J., Tulis, A.J., Fronabarger, J.W., Lohmann, J.W., Luoma, J.A., Rentfrew, R.W. and Comeyne, W. "The shock initiation of PBXN-301 by impact of an explosively-driven flyer plate across an air gap", in "Proc. 18th Int. Pyrotechnics Seminar", pp. 11-31, publ. Chicago, IIT Research Institute

- 1992, Averkov, O.N., Gryadobitov, S.P., Kozlov, E.A., Lupilin, G.A. and Matushkin, N.D. "A solid state calorimeter for measuring the internal energy increment of metal samples, capable of surviving explosive loading", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 859-862, publ. Amsterdam, Elsevier
- 1992, Baer, M.R. "A numerical study of shock wave reflections on low density foam" Shock Waves 2 121-124
- 1992, Bai, C., Huang, F. and Ding, J. "Behavior of ammonium perchlorate under shock loading", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 651-654, publ. Amsterdam, Elsevier
- 1992, Bai, Y.L., Ling, Z., Luo, L.-M. and Ke, F. "Initial development of microdamage under impact loading" Trans. ASME: J. Appl. Mech. 59 622-627
- 1992, Baker, L., Giancola, A.J. and Allahdadi, F. "Fracture and spall mass ejecta mass distribution: Lognormal and multifractal distributions" J. Appl. Phys. 72 2724-2731
- 1992, Baker, D.E., Austing, J.L. and Tulis, A.J. "Carbon resistor pressure gauge applications in very high pressure regimes", in "Proc. 18th Int. Pyrotechnics Seminar", pp. 51-71, publ. Chicago, IIT Research Institute
- 1992, Bakshi, O.A., Kupershlyak-Yuzefovich, G.M., Shkerbin, Y.V. and Brodskii, A.B. "Hardening the weld metal in pulsed loading" Strength Mater. 24 509-512
- 1992, Balankin, A.S., Levin, S.V. and Yanevich, G.N. "Predicting the shock strength of targets made of brittle materials" Sov. Phys. Tech. Phys. 37 339-341
- 1992, Balashov, D.B. "Simple waves in Prandtl-Reuss equations" J. Appl. Math. Mech. 56 107-116
- 1992, Bandak, F.A., Armstrong, R.W., Douglas, A.S. and Tsai, D.H. "Nanodislocation structures for shock strengthening", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 559-562, publ. Amsterdam, Elsevier
- 1992, Bandak, F.A., Tsai, D.H. and Armstrong, R.W. "Energetics of nanod defect structures in shocked crystals", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 957-970, publ. New York, Marcel-Dekker
- 1992, Bandak, F.A., Armstrong, R.W. and Douglas, A.S. "Dislocation structure for one-dimensional strain in a shocked crystal" Phys. Rev. B 46 3228-3235
- 1992, Bar-On, E., Rajendran, A.M., Bless, S.J. and Grove, D.J. "Modeling of dynamic fracture in a solid cone target", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 939-942, publ. Amsterdam, Elsevier

- 1992, Bardo, R.D. "Theoretical prediction of novel molecular solids formed at high pressure", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 209-216, publ. Amsterdam, Elsevier
- 1992, Barenboim, A.I., Egorov, L.A., Kalinin, V.G., Makeev, N.G., Mokhova, V.V. and rummyantsev, V.G. "Laboratory complex for X-ray diffraction studies of shock-compressed materials with exposure time of 50 nsec" Instrum. Exper. Tech. 35(1) 145-148
- 1992, Batana, A. and Gomez, I. "Low temperature limit of the Grüneisen parameters for an hcp lattice using elastic data" J. Phys. Chem. Solids 53 339-340
- 1992, Batsanov, S.S. "Dynamic-static compression of substance", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 844-847, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Batsanov, S.S., Vasilevskii, S.V., Gurev, D.L., Didyukov, A.I., Isaev, V.N., Kopaneva, L.I., Lazareva, E.V., Maksimov, I.I., Tumanov, V.A., Shmakov, A.S. and Fomin, S.L. "Phase transformation in BN under combined dynamic and static compression" Sov. J. Chem. Phys. 10 425-427
- 1992, Bauer, F., Graham, R.A., Anderson, M.U., Lefebvre, H., Lee, L.M. and Reed, R.P. "Response of the piezoelectric polymer PVDF to shock compression greater than 10 GPa", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 887-890, publ. Amsterdam, Elsevier
- 1992, Bdzil, J.B. and Kapila, A.K. "Shock-to-detonation transition: A model process" Phys. Fluids A 4 409-418
- 1992, Beard, B.C., Sharma, J., Sandusky, H.W., Glancy, B.C. and Elban, W.L. "Dislocation density variation in shocked single crystal ammonium perchlorate", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 571-574, publ. Amsterdam, Elsevier
- 1992, Beard, B.C., Sandusky, H.W. and Glancy, B.C. "Defect density measurements in shocked single crystals ammonium perchlorate by X-ray photoelectron spectroscopy" J. Mater. Res. 7 3266-3274
- 1992, Becq-Giraudon, J.-F., Rouzeau, O., Goachet, E. and Solages, S. "Impact hypervélocité d'une météorite géante à l'origine de la dépression circulaire d'Aorounga au Tchad (Afrique)" C.R. Acad. Sci. Paris Sér. II 315 83-88
- 1992, Begemann, F., Palme, H., Spettel, B. and Weber, H.W. "On the thermal history of heavily shocked Yanzhuang H-chondrite" Meteoritics 27 174-178
- 1992, Belotserkovets, I.S. and Timoshenko, V.I. "Calculation of the irregular interaction of shock waves" J. Appl. Mech. Tech. Phys. 33 775-779

- 1992, Belyakova, M.N., Korniyushin, Y.V., Larikov, L.N. and Mudruk, P.V. "The occurrence of microcracks in shock-deformed molybdenum during annealing (in Russian)" *Metallofizika* 14(1) 28-33
- 1992, Belyakova, M.N., Zholud, V.V., Larikov, L.N. and Mazanko, V.F. "Mass transfer upon shock loading of molybdenum and molybdenum alloyed by rhenium (in Russian)" *Metallofizika* 14(2) 96-100
- 1992, Ben-Dor, G. "Shock-Wave Reflection Phenomena", publ. New York, Springer
- 1992, Ben-Dor, G. and Takayama, K. "The phenomena of shock wave reflection: A review of unsolved problems and future research needs" *Shock Waves* 2 211-223
- 1992, Ben-Dor, G., Igra, O., Mond, M., Mozor, G. and Reichenbach, H. "Shock wave loading on a rubber rod: Experimental investigation", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 193-196, publ. Berlin, Springer
- 1992, Ben-Dor, G., Mazor, G., Cederbaum, G., Igra, O. and Sorek, S. "The enhancement of shock wave loads by means of porous media", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 279-282, publ. Berlin, Springer
- 1992, Benattar, R., Sezen, A. and Hüller, S. "Time-resolved absorption spectroscopy as a diagnostic of the thermal front zone of laser-illuminated thin plastic foils" *Phys. Fluids B* 4 1006-1011
- 1992, Bennett, L.S., Sorrell, F.Y., Simonson, I.K., Horie, Y. and Iyer, K.R. "Ultrafast chemical reactions between nickel and aluminum powders during shock loading" *Appl. Phys. Letts* 61 520-521
- 1992, Bennett, B.I. and Liberman, D.A. "Quantum mechanical effects on the shock Hugoniot", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 49-52, publ. Amsterdam, Elsevier
- 1992, Bennett, L.S., Iyer, K.R., Sorrell, F.Y. and Horie, Y. "Shock induced exothermic reactions in powder mixtures", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 605-608, publ. Amsterdam, Elsevier
- 1992, Benson, D.J., Nellis, W.J. and Moriarty, J.A. "Pressure-temperature history of thin films recovered from Mbar shock pressures", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 981-988, publ. New York, Marcel-Dekker
- 1992, Benson, D.J. "Computational methods in Lagrangian and Eulerian hydrocodes" *Comput. Meth. Appl. Mech. Engng* 99 235-394
- 1992, Bernecker, R.R. "Shock initiation of some aqueous HMX mixtures", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 695-698, publ. Amsterdam, Elsevier

- 1992, Bernecker, R.R. "The calculation of unreacted Hugoniot. 1: TNT, RDX, and their mixtures", in "Proc. 1992 JANNAF Propulsion Systems Hazards Subcommittee Meeting. Vol. 1. (CPIA Publ. 582)", pp. 285-???, publ. Columbia, Maryland, Chemical Propulsion Information Agency
- 1992, Bice, D.M., Newton, C.R., McCauley, S., Reiners, P.W. and McRoberts, C.A. "Shocked quartz at the Triassic-Jurassic boundary in Italy" *Science* 255 443-446
- 1992, Bichenkov, E.I., Gilev, S.D. and Trubachev, A.M. "Shock-induced conductivity waves at metal-metal, metal-semiconductor transitions and in high porous nickel foam", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 423-427, publ. Berlin, Springer
- 1992, Bischoff, A. and Stoffler, D. "Shock metamorphism as a fundamental process in the evolution of planetary bodies: Information from meteorites" *Eur. J. Mineralogy* 4 707-755
- 1992, Blazynski, T.Z. "Dynamically Consolidated Composites: Manufacture and Properties", publ. London, Elsevier Applied Science
- 1992, Bless, S.J. and Brar, N.S. "Load/unload hysteresis in ceramics measured by a reverberation technique", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 483-486, publ. Amsterdam, North-Holland
- 1992, Bless, S.J., Brar, N.S., Kanel, G. and Rosenberg, Z. "Failure waves in glass" *J. Amer. Ceram. Soc.* 75 1002-1004
- 1992, Boettger, J.C. "New model for the shock induced  $\alpha$ -quartz $\rightarrow$ stishovite transition" *J. Appl. Phys.* 72 5500-5508
- 1992, Bogdanov, G.E. and Rybakov, A.P. "Anomalies of the shock compressibility of water" *J. Appl. Mech. Tech. Phys.* 33 162-165
- 1992, Bolotin, V.A., Gavrilov, V.V., Golberg, S.M., Goltsov, A.Y., Kondrashov, V.N., Kovalsky, N.G., Velikovich, A.L. and Zavyalets, S.V. "Matter acceleration in laser-irradiated multifoil systems" *Phys. Fluids B* 4 2596-2604
- 1992, Boness, D. and Brown, J.M. "Melting along the Hugoniot of KBr and CaBr: Optical pyrometry-rarefaction overtake experiments", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 187-190, publ. Amsterdam, Elsevier
- 1992, Boogerd, P. and van der Steen, A.C. "Microstructure of explosively compacted ceramic materials", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 443-452, publ. New York, Marcel Dekker

- 1992, Borisenok, V.A., Morozov, V.A., Novitskii, E.Z., Simakov, V.G., Simakov, G.V., Maksimova, N.G. and Shuvalov, L.A. "Dynamic compressibility of a single crystal of deuterated triglycine sulfate (ADTGS) and its electrical reaction to a shock wave" *Sov. Phys. Crystallog.* 37 516-519
- 1992, Boslough, M.B. "Postshock spectral radiance measurements in nickel and nickel/aluminum powders", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 617-620, publ. Amsterdam, Elsevier
- 1992, Boslough, M.B. "Thermochemistry of shock-induced exothermic reactions in selected porous mixtures", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 253-260, publ. New York, Marcel Dekker
- 1992, Bourne, N.K. and Field, J.E. "Shock induced collapse of single cavities in liquids" *J. Fluid Mech.* 244 225-240
- 1992, Bourne, N.K. and Field, J.E. "Cavitation damage by bubbles collapsed by shock-waves", in "Proc. Int Conf. on Cavitation", pp. 49-54, publ. London, Mechanical Engineering Publications Ltd.
- 1992, Boustie, M., Cottet, F. and Romain, J.P. "Spalling due to a strong shock wave decay process in solid targets irradiated by a pulsed laser", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 805-808, publ. Amsterdam, Elsevier
- 1992, Boustie, M., Cottet, F., Chauveau, Y. and Matra, S.A. "Spalling of aluminum and copper targets by laser shocks", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 741-750, publ. New York, Marcel Dekker
- 1992, Boyer, D.L., Bowman, B.R., Brandt, H. and Giedt, W.H. "The effect of radial confinement of explosive on the impulse delivered to an explosively driven circular plate" *Propell. Explos. Pyrotech.* 17 232-236
- 1992, Brackett, R.A. and McKinnon, W.B. "Cratering mechanics on Venus: Pressure enhancement by the atmospheric ocean" *Geophys. Res. Letts* 19 2115-2118
- 1992, Brar, N.S. and Bless, S.J. "Dynamic fracture and failure mechanisms of ceramic bars", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 1041-1050, publ. New York, Marcel-Dekker
- 1992, Brar, N.S., Bless, S.J. and Rosenberg, Z. "Response of shock-loaded AlN ceramics determined with in-material manganin gauges", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 1023-1030, publ. New York, Marcel-Dekker



- 1992, Brar, N.S., Rosenberg, Z. and Bless, S.J. "Applying Steinberg's model to the Hugoniot elastic limit of porous boron carbide specimens", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 467-470, publ. Amsterdam, Elsevier
- 1992, Brar, N.S. and Bless, S.J. "Failure waves in glass under dynamic compression" High Press. Res. 10 773-784
- 1992, Brar, N.S. and Rosenberg, Z. "Response of shock-loaded ceramics determined with in-material manganin gauges", in "Recent Trends in High Pressure Research", ed. A.K. Singh, pp. 747-752, publ. New Delhi, India, Oxford & IBH Publishing Co. PVT Ltd.
- 1992, Brenner, D.W. "Molecular potentials for simulating shock-induced chemistry", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 115-121, publ. Amsterdam, Elsevier
- 1992, Britan, A.B., Zinovik, I.N. and Levin, V.A. "Breaking up foam with shock waves" Combust. Explos. Shock Waves 28 550-557
- 1992, Britan, A.B., Zinovik, I.N. and Levin, V.A. "Shock-wave propagation through a vertical foam column with a density gradient" J. Appl. Mech. Tech. Phys. 33 166-170
- 1992, Britan, A.B., Zuev, A.P., Testov, V.G. and Khmelevskii, A.N. "The effect of condensation on the parameters of the flow behind shock waves in water vapor" Sov. Phys. Tech. Phys. 37 765-770
- 1992, Buchar, J., Rolc, S. and Pechacek, J. "Dynamic fracture (spalling) of some structural steels", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 769-774, publ. New York, Marcel-Dekker
- 1992, Budge, K.G. "ALE shock calculations using a stabilized serendipity rezoning scheme", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 301-304, publ. Amsterdam, Elsevier
- 1992, Bukhtina, T.V., Varenova, N.G., Kikin, P.Y., Pchelintsev, A.I. and Rusin, E.E. "Laser-induced shock wave action to intensify the dissolution of complex carbides" Sov. Tech. Phys. Letts 18 196-197
- 1992, Bulgakova, N.M. and Kuznetsov, L.I. "Gas dynamics of impulsive jets and pressure oscillations of a laser-irradiated target" J. Appl. Mech. Tech. Phys. 33 780-786
- 1992, Bulgakova, N.M. and Kuznetsov, L.I. "Effect of impulsive erosion flame parameters on pressure pulsations" J. Appl. Mech. Tech. Phys. 33 793-796
- 1992, Bulson, P.S., Ed. "Structures under Shock and Impact II", publ. Southampton, Computational Mechanics Publications

- 1992, Buravova, S.N. "Scabbing model of erosion wear for surfaces bombarded by particle beams" *Sov. Phys. Tech. Phys.* 37 859-862
- 1992, Burka, E.S. and Nalecz, T.J. "Effect of some physical properties of hydraulic tubes upon shock wave pressure propagation velocity" *Mech. Teor. Stos.* 30 81-89
- 1992, Burtseva, O.A., Gerasimov, V.M. and Fedorov, A.V. "Features of the splitting fracture of copper in the submicrosecond range of life" *Strength Mater.* 24 758-761
- 1992, Bushman, A.V., Efremov, V.P., Fortov, V.E., Kanel, G.I., Lomonosov, I.V., Ternovoi, V.Y. and Utkin, A.V. "Equation of state of composites under high energy densities", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 79-82, publ. Amsterdam, Elsevier
- 1992, Bushman, A.V., Efremov, V.P., Kanel, G.I., Lomonosov, I.V., Utkin, A.V., Fortov, V.E. and Yushkov, E.S. "Shock compressibility and equation of state of organoplastic state at high energy density" *Khim. Fiz.* 11 410-414
- 1992, Butina, T.A. "Estimate of the temperature field in a compressible medium" *J. Appl. Mech. Tech. Phys.* 33 20-23
- 1992, Byers Brown, W. and Amaee, A. "Review of Equations of State of Fluids Valid to High Density", publ. London, HMSO
- 1992, Calcote, H.F. and Felder, W. "A new gas-phase combustion synthesis process for pure metals, alloys and ceramics", in "Proc. 24th Symp. (Int.) on Combustion", pp. 1869-1876, publ. Pittsburgh, PA, The Combustion Institute
- 1992, Cals, M.P., Marque, J.P. and Alquié, C. "Application of the pressure wave propagation method to the study of interfacial effects in e-irradiated polymer films" *J. Appl. Phys.* 72 1940-1951
- 1992, Celliers, P., Ng, A., Xu, G. and Forsman, A. "Thermal equilibration in a shock wave" *Phys. Rev. Letts* 68 2305-2308
- 1992, Chang, S.N. and Nemat-Nasser, S. "Compression induced high strain rate void collapse", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 783-794, publ. New York, Marcel-Dekker
- 1992, Chang, S.N., Chung, D.-T., Li, Y.-F. and Nemat-Nasser, S. "Target configurations for plate-impact recovery experiments" *Trans. ASME: J. Appl. Mech.* 59 305-311
- 1992, Chapron, P. and Elias, P. "Surface phenomena of shock-loaded metallic samples", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 435-440, publ. Berlin, Springer

- 1992, Charest, J.A. and Lynch, C.S. "A simple approach to piezofilm stress gauges", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 897-900, publ. Amsterdam, Elsevier
- 1992, Charlie, W.A., Rwebyogo, M.F.J. and Doehring, D.O. "Time-dependent cone penetration resistance due to blasting" ASCE J. Geotech. Engng 118 1200-1215
- 1992, Chartagnac, P., Decaso, P., Jimenez, B., Bouchu, M., Cavailler, C. and Delavel, J. "Dynamic behaviour of PVF<sub>2</sub> gauges in the 0-600 kbar range", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 893-896, publ. Amsterdam, Elsevier
- 1992, Chen, Y.-F. and Ren, S. "Explosive welding of titanium alloy TC4 and stainless steel 1Cr18Ni9Ti plates", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 762-767, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Chéret, R. "The life and work of Pierre-Henri Hugoniot" Shock Waves 2 1-4
- 1992, Chéret, R. "How does a shock wave control the flow downstream of a divergent simple detonation?", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 857-861, publ. Berlin, Springer
- 1992, Cherin, H., Bournisien, D. and Lemoine, D. "Shock induced changes of the morphological characteristics of an explosive powder", in "Proc. 18th Int. Pyrotechnics Seminar", pp. 171-186, publ. Chicago, IIT Research Institute
- 1992, Chhabildas, L.C. and Asay, J.R. "Dynamic yield strength and spall strength measurements under quasi-isentropic loading", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 947-956, publ. New York, Marcel-Dekker
- 1992, Chhabildas, L.C. and Asay, J.R. "Recent advances in shock and quasi-isentropic compression techniques for dynamic material property studies", in "Proc. 2nd Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 227-231, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Chhabildas, L.C., Barker, L.M., Asay, J.R., Trucano, T.G., Kerley, G.I. and Dunn, J.E. "Launch capabilities to over 10 km/s", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 1025-1031, publ. Amsterdam, Elsevier
- 1992, Chhabildas, L.C. "Hypervelocity launch capabilities to over 10 km/s", in "Recent Trends in High Pressure Research", ed. A.K. Singh, pp. 739-746, publ. New Delhi, India, Oxford & IBH Publishing Co. PVT Ltd.
- 1992, Chiba, A., Fujita, M., Nishida, M., Imamura, K. and Tomoshige, R. "Underwater shock consolidation of difficult-to-consolidate powders", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 415-424, publ. New York, Marcel Dekker

- 1992, Chiba, A., Itoh, S., Tomosige, R., Miyazaki, K. and Fujita, M. "Pressure analysis on powder compaction process using converging underwater shock wave assembly", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 768-771, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Chiba, A., Tomosige, R., Nishida, M., Imamura, K. and Fujita, M. "Explosive powder compaction with a water pressure medium", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 463-468, publ. Berlin, Springer
- 1992, Chiem, C.Y. "Dynamic behaviour of materials and microstructural aspects", in "Proc. Int. Symp. on Impact Engineering", ed. I. Maekawa, pp. 127-132, publ. Sendai, Japan, ISIE
- 1992, Chou, S.C. and Dandekar, D.P. "Strength of titanium diboride under shock loading", in "Proc. 2nd Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 327-330, publ. Chengdu, China, Sichuan University Press
- 1992, Chyba, C. and Sagan, C. "Endogenous production, exogenous delivery and impact-shock synthesis of organic molecules: An inventory for the origins of life" *Nature* 355 125-132
- 1992, Coffey, C.S., Davis, J.J. and Woody, D.L. "Energy localization in rapidly deforming crystalline solids", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 253-256, publ. Amsterdam, North-Holland
- 1992, Coffey, C.S. "A dislocation-microscopic approach to shear band formation in crystalline solids during shock or impact", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 669-680, publ. New York, Marcel Dekker
- 1992, Collombet, F. and Tranchet, J.Y. "Anisotropic damage elasticity coupling for wave-propagation loading of brittle materials", in "Localised Damage 1992", publ. Southampton, UK.,
- 1992, Cook, W.H., Rajendran, A.M. and Grove, D.J. "An efficient numerical implementation of the Bodner-Partom model in the EPIC-2 code" *Engng Fract. Mech.* 41 607-623
- 1992, Cooke, C.H. and Chen, T.-J. "On shock capturing for pure water with general equation of state" *Commun. Appl. Numer. Meth.* 8 219-234
- 1992, Cooper, P.W. "Extending estimation of C-J pressure of explosives to the very low density region", in "Proc. 18th Int. Pyrotechnics Seminar", pp. 187-193, publ. Chicago, IIT Research Institute
- 1992, Cortes, R. "The growth of microvoids under intense dynamic loading" *Int. J. Solids Structures* 29 1339-1350

- 1992, Cortes, R. "Dynamic growth of microvoids under combined hydrostatic and deviatoric stresses" *Int. J. Solids Structures* 29 1637-1645
- 1992, Cosculluela, A. "Plasticité, endommagements et ruptures des alumines sous sollicitations dynamiques triaxiales: Influence de la taille des grains", Docteur en Mécanique thesis, Univ. of Bordeaux I
- 1992, Cosculluela, A., Cagnoux, J. and Collombet, F. "Two types of experiment for studying uniaxial dynamic compression of alumina", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 951-954, publ. Amsterdam, Elsevier
- 1992, Courchinoux, R., Chapron, P. and Elias, P. "Particle velocity profiles measured by LDI through a LiF window in loading-unloading experiments", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 771-774, publ. Amsterdam, Elsevier
- 1992, Cowperthwaite, M. "One-dimensional flows with straight particle velocity contours", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 245-248, publ. Amsterdam, Elsevier
- 1992, Crump, O.B., Stanton, P.L. and Sweatt, W.C. "Fixed cavity VISAR", SAND92-0162, Sandia National Laboratory
- 1992, Cudzilo, S., Paszula, J., Trebinski, R., Trzcinski, W. and Wlodarczyk, E. "Investigation into the detonation properties of a plastic explosive with an addition of aBN" *J. Tech. Phys.* 33 79-92
- 1992, Curran, D.R. and Seaman, L. "Appropriate material softening and failure models for numerical calculations", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 395-398, publ. Amsterdam, Elsevier
- 1992, Cygan, R.T., Boslough, M.B. and Kirkpatrick, R.J. "NMR spectroscopy of experimentally shocked silicate minerals", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 633-636, publ. Amsterdam, Elsevier
- 1992, Cygan, R.T., Boslough, M.B. and Kirkpatrick, R.J. "NMR spectroscopy of experimentally shocked quartz and plagioclase feldspar powders" *Proc. Lunar Planet. Sci.* 22 127-136
- 1992, Dan, K., Tamura, H., Kunishige, H., Sawaoka, A.B. and Mori, T. "High pressure treatment of iron by conically converging shock waves in a cylindrical sample", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 181-186, publ. Berlin, Springer
- 1992, Dandekar, D.P. "Effect of shock re-shock on spallation of titanium diboride", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 487-490, publ. Amsterdam, North-Holland

- 1992, Dandekar, D.P. and Gaeta, P.J. "Extent of damage induced in titanium diboride under shock loading", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 1059-1068, publ. New York, Marcel-Dekker
- 1992, Dandekar, D.P. "Shock compression of a PVC-based elastomer and PVC", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 505-510, publ. Berlin, Springer
- 1992, Dandekar, D.P. and Green, J.L. "Is there a unique equation of state for an elastomer?", in "Recent Trends in High Pressure Research", ed. A.K. Singh, pp. 538-543, publ. New Delhi, India, Oxford & IBH Publishing Co. PVT Ltd.
- 1992, Danson, C., Bann, R., Hardie, D., Pepler, D., Ross, I., Sails, S. and Woolsey, N. "Uniform focal profiles suitable for laser driven shocks", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 789-792, publ. Amsterdam, Elsevier
- 1992, Darquey, P., Kieffer, J.C., Gauthier, J., Pepin, H., Chaker, M., Champagne, B., Baldis, H. and Villeneuve, D. "Structural changes in metallic and superconducting ( $\text{YBa}_2\text{Cu}_3\text{O}_7$ ) powders induced by laser-driven shocks", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 857-864, publ. New York, Marcel Dekker
- 1992, Davis, J.F., Furlong, J.R. and Alme, M. "Ceramics behavior at stress levels characteristic of ballistic impact", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 479-482, publ. Amsterdam, North-Holland
- 1992, Degrande, G. and de Roeck, G. "FFT-based spectral analysis methodology for one-dimensional wave propagation in poroelastic media" *Transport Porous Media* 9 85-97
- 1992, Deribas, A.A. "Equipment for localization of explosion", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 1113-1120, publ. New York, Marcel Dekker
- 1992, Deribas, A.A., Culidov, A.I., Zlobin, B.S., Kiselev, V.V., Fomin, V.M., Shabalin, I.I. and Shterzer, A.A. "On the oblique collisions of metallic plates at extreme conditions", in "Recent Trends in High Pressure Research", ed. A.K. Singh, pp. 712-718, publ. New Delhi, India, Oxford & IBH Publishing Co. PVT Ltd.
- 1992, Desai, T., Godwal, B.K. and Pant, H.C. "Intense laser induced shock generation in gold targets" *High Press. Res.* 10 743-746
- 1992, DeVore, C.R. and Oran, E.S. "The stability of imploding detonations in the geometrical shock dynamics (CCW) model" *Phys. Fluids A* 4 835-844
- 1992, Dhareshwar, L.J., Naik, P.A., Kaushik, T.C. and Pant, H.C. "Study of laser driven shock wave propagation in plexiglas targets" *Laser Particle Beams* 10 201-211

- 1992, Dhareshwar, L.J., Naik, P.A., Kaushik, T.C. and Pant, H.C. "Laser driven shock wave studies in gold coated plexiglas targets" High Press. Res. 10 695-706
- 1992, Dick, J.J. "Supercritical shear in shocked PETN" Appl. Phys. Letts 60 2494-2495
- 1992, Dick, J.J., Garcia, E. and Shaw, D.C. "Shock initiation of PETN crystals: Steric effects due to plastic flow", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 349-352, publ. Amsterdam, Elsevier
- 1992, Dick, R.D., Williams, J.D., Young, C. and Lottero, R.E. "Blast pressure measurement from explosives", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 921-924, publ. Amsterdam, Elsevier
- 1992, Ding, J. "Shock processing research in the People's Republic of China", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 887-898, publ. New York, Marcel Dekker
- 1992, Dlott, D.D. "Ultrafast vibrational energy transfer in molecular solids", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 709-718, publ. Amsterdam, Elsevier
- 1992, Dodo, M., Furukawa, K., Tanida, N., Hayashi, H., Yoshida, H., Nshikawa, M., Hikasa, Y. and Shimoyama, T. "Effects of oral bile acid administration on stone fragmentation and biliary cholesterol saturation index in biliary extracorporeal shock wave lithotripsy", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 1249-1254, publ. Berlin, Springer
- 1992, Dolgoborodov, A.Y., Vosoboinikov, I.M., Tolstov, I.K. and Sudarikov, A.V. "Anomalies of the propagation of shock waves in mixtures" Combust. Explos. Shock Waves 28 308-314
- 1992, Dolgoborodov, A.Y. and Voskoboinikov, I.M. "Shock compression of acetonitrile" Sov. J. Chem. Phys. 9 1864-1873
- 1992, Dolgoborodov, A.Y., Voskoboinikov, I.M. and Tolstov, I.K. "On dissociation of shock-pressurized halogenated methanes" Sov. J. Chem. Phys. 10 1036-1048
- 1992, Dolgushin, D.S. and Anisichkin, V.F. "Calculation of temperature behind a shock front in condensed matter by the methods of thermodynamic similarity theory" Combust. Explos. Shock Waves 28 646-649
- 1992, Dormeval, R., Perraud, J. and Remiot, C. "Phase transition and Hugoniot data in shock loaded bismuth", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 997-1004, publ. New York, Marcel-Dekker

- 1992, Dremin, A.N., Molodets, A.M., Melkumov, A.I. and Kolesnikov, A.V. "On anomalous increase of steel spall strength and its relationship to martensitic transformation", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 751-758, publ. New York, Marcel-Dekker
- 1992, Dremin, A.N., Orlov, A.V. and Molodets, A.M. "Temperature influence on glass shock wave inelastic strain rate", in "Proc. 2nd Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 415-420, publ. Chengdu, China, Sichuan University Press
- 1992, Dremin, A.N. "Shock discontinuity zone effect: The main factor in the explosive decomposition detonation process" *Phil. Trans. R. Soc. Lond. A* 339 355-364
- 1992, Drobyshevskii, E.M. "Impact-induced runaway ejection of silicates from Mercury and evolution of the Mercury-Venus systems (in Russian)" *Astron. Zh.* 69 850-862
- 1992, Duffy, T.S. and Ahrens, T.J. "Sound velocities at high pressure and temperature and their geophysical implications" *J. Geophys. Res.* 97 4503-4520
- 1992, Duffy, T.S. "Elastic properties of metals and minerals under shock compression", PhD thesis, Univ. of Caltech, Pasadena
- 1992, Duffy, T.S. and Ahrens, T.J. "Hugoniot sound velocities in metals with applications to the Earth's inner core", in "High-Pressure Research: Application to Earth and Planetary Science", ed. Y. Syono and M.H. Manghnani, pp. 353-361, publ. Washington DC, American Geophysical Union
- 1992, Edneral, N.V., Minev, R.M., Kirko, V.I. and Pantaleeva, D.V. "Structure and properties of amorphous metallic alloys produced by shock-wave compacting" *Sov. Powder Metall. Metal Ceramics* 31 426-429
- 1992, Eftis, J. and Nemes, J.A. "Modeling of impact-induced spall fracture and post spall behavior of a circular plate" *Int. J. Fract.* 53 301-324
- 1992, Egorushkin, V.E. "Dynamics of plastic deformation: Waves of localized plastic deformation in solids" *Russ. Phys. J.* 35 316-334
- 1992, Elias, C.N., Rios, P.R. and Romero, A.W. "Spall of differently treated high strength low alloy steel", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 733-740, publ. New York, Marcel-Dekker
- 1992, Elias, C.N. and da Costa Viana, C.S. "Microstructure of a steel perforated by a metallic jet" *Mater. Charact.* 29 35-38
- 1992, Elliott, N.E. and Staudhammer, K.P. "Effect of internal gas pressure on the shock consolidation of 304 stainless steel powders", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 371-381, publ. New York, Marcel Dekker



- 1992, Emery, M.H. and Gardner, J.H. "Laser driven shock instabilities in multimaterial, layered, solid targets", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 793-796, publ. Amsterdam, Elsevier
- 1992, Epanchintsev, O.G., Vertman, A.A. and Zvezdin, Y.I. "Shock-wave compaction of bioactive ceramic powders", in "Proc. Int. Symp. on Impact Engineering", ed. I. Maekawa, pp. 497-501, publ. Sendai, Japan, ISIE
- 1992, Erpenbeck, J.J. "Molecular dynamics of detonation. 1: Equation of state and Hugoniot curve for a simple reactive fluid" *Phys. Rev. A* 46 6406-6416
- 1992, Erskine, D.J. and Nellis, W.J. "Shock-induced martensitic transformation of highly oriented graphite to diamond" *J. Appl. Phys.* 71 4882-4886
- 1992, Erskine, D.J. and Nellis, W.J. "Shock-induced martensitic transformation of highly ordered graphite", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 185-186, publ. Amsterdam, Elsevier
- 1992, Espinosa, H.D. "Micromechanics of the dynamic response of ceramics and ceramic composites", PhD thesis, Univ. of Brown
- 1992, Espinosa, H.D., Raiser, G., Clifton, R.J. and Ortiz, M. "Performance of the star-shaped flyer in the study of brittle materials: Three dimensional computer simulations and experimental observations" *J. Appl. Phys.* 72 3451-3457
- 1992, Espinosa, H.D., Raiser, G., Clifton, R.J. and Ortiz, M. "Experimental observations and numerical modeling of inelasticity in dynamically loaded ceramics" *J. Hard Mater.* 3 285-313
- 1992, Farnsworth Jr., A.V. and Lawrence, R.J. "Numerical and analytical analysis of thin laser-driven flyer plates", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 821-824, publ. Amsterdam, Elsevier
- 1992, Fedorov, V.M., Gordopolov, Y.A. and Merzhanov, A.G. "Explosive treatment of SHS end products (of high-temperature superconductors)" *J. Engng Phys. Thermophys.* 63 1166-1170
- 1992, Fedorov, A.V. and Fedorova, N.N. "Structure, propagation, and reflection of shock waves in a mixture of solids: The hydrodynamic approximation" *J. Appl. Mech. Tech. Phys.* 33 487-494
- 1992, Feng, C. "Transformation and structural changes in metal under shock and dynamic loading", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 573-586, publ. New York, Marcel-Dekker

- 1992, Feng, J., Dong, Y., Zhang, M., Zhang, G., Jing, F. and Su, L. "Numerical simulation study for spallation in ductile metals", in "Proc. 2nd, Int. Symp. on Intense Dynamic Loading and its Effects", ed. G. Zheng and S. Huang, pp. 315-319, publ. Chengdu, China, Sichuan University Press
- 1992, Feng, K.K., Jones, D.E.G. and Chan, S.K. "Shock initiation of bubble sensitized commercial explosives", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 691-694, publ. Amsterdam, Elsevier
- 1992, Feng, J.-B., Jing, F.-Q., Dong, Y.-B., Su, L.-X. and Zhang, M. "A dynamic fracture model for ductile solids", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 311-314, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Ferreira, A. and Meyers, M.A. "Method for determining pressure required for shock compaction of powders", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 361-370, publ. New York, Marcel Dekker
- 1992, Ferreira, A., Meyers, M.A. and Thadhani, N.N. "Dynamic compaction of titanium aluminides by explosively generated shock waves: Microstructure and mechanical properties" Metall. Trans. A 23 3251-3261
- 1992, Flock, R.A. and Liu, D.T. "Numerical analysis of 'thin film' Grüneisen test measurements", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 403-406, publ. Amsterdam, Elsevier
- 1992, Follansbee, P.S. "Shear stress prediction in shock loaded copper", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 415-418, publ. Amsterdam, Elsevier
- 1992, Fomin, V.F. and Kiselev, S.P. "Shock wave processes in porous elastoplastic materials", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 373-379, publ. Berlin, Springer
- 1992, Forbes, J.W. "Detonation wave curvature, corner turning and unreacted Hugoniot of PBXN-111", NSWCCD/TR-92/164, Naval Surface Warfare Center, Silver Spring, Maryland
- 1992, Fortov, V.E., Bushman, A.V., Filimonov, A.S., Kvitov, S.V., Kulish, M.I., Lebedev, M.E., Polischuk, A.Y. and Ternovoi, V.Y. "Optical properties of dense plasma in shock and rarefaction waves", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 745-748, publ. Amsterdam, Elsevier

- 1992, Fortov, V.E., Efremov, V.P., Kanel, G.I., Morosov, P.V., Demidov, B.A., Lomonosov, I.V., Ni, A.L. and Vorobev, O.Y. "Theoretical and experimental investigation of shock waves generated by high energy charged particle beams", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 833-836, publ. Amsterdam, Elsevier
- 1992, Fowler, C.M., Caird, R.S., Edeskuty, F.J., Lund, C.M. and Mills, R.L. "Nearly isentropic compression of materials by large magnetic fields: A survey", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 17-28, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Frank, A.M. and Tao, W.C. "Photography of shock waves in explosive crystals" Proc. SPIE 1539 266-270
- 1992, Fry, M.A. "Interaction of shock waves from encapsulated high explosive charges", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 901-904, publ. Berlin, Springer
- 1992, Fujihara, S., Narita, K., Saito, Y., Tatsumoto, K., Fujiwara, S., Yoshida, M., Aoki, K., Kakudate, Y., Usuba, S. and Yamakawi, H. "Explosive shock synthesis of polycrystalline diamond powders", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 367-372, publ. Berlin, Springer
- 1992, Fujita, M., Izuma, T., Hokamoto, K. and Aoyagi, M. "Development of new explosive welding technique of hard-to-weld metal combinations", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 749-752, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Fujiwara, K., Hiroe, T. and Matsuo, H. "New method of generating cylindrical imploding shocks using a flyer disk" Appl. Phys. Letts 61 3110-3112
- 1992, Furnish, M.D., Chhabildas, L.C., Steinberg, D.J. and Gray III, G.T. "Dynamic behavior of fully dense molybdenum", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 419-422, publ. Amsterdam, Elsevier
- 1992, Furnish, M.D. and Chhabildas, L.C. "Dynamic material properties of refractory materials: molybdenum", in "High Strain Rate Behavior of Refractory Metals and Alloys", ed. R. Asfahani, E. Chen and A. Crowson, pp. 229-240, publ. Warrendale, Pennsylvania, The Minerals, Metals and Materials Society
- 1992, Gamezo, V.N. and Kondrikov, B.N. "Detonation of cryogenic H<sub>2</sub> + O<sub>2</sub> mixtures" Combust. Explos. Shock Waves 28 100-104
- 1992, Gang, Y., Sun, C.-W., Ghang-Quan, Z. and Tang, Z.P. "Measurements of laser induced stress waves by eddy-current velocity gauge", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 925-927, publ. Amsterdam, Elsevier

- 1992, Gao, J.-X., Zhang, K., Lu, L., Ai, B.-R., Zhang, J.-Y., Li, Y.-Z., Zhu, R.-Z., Liu, C.-N. and Qin, J.-W. "Phenomena of explosive consolidation for alumina", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 783-786, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Gao, X.-Z., Ding, J. and Zhou, L.-T. "Synthesis of nickel aluminides under shock loading", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. G. Zhang and S. Huang, pp. 824-827, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Gathers, G.R., Chau, H.H., Osher, J.E. and Weingart, R.C. "Hugoniot measurements on a slurry of finely divided tungsten and plastic", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 83-85, publ. Amsterdam, Elsevier
- 1992, Gelfand, B.E., Frolov, S.M. and Tsyganov, S.A. "A criterion for generation of shock and detonation waves in a reactive medium" Sov. J. Chem. Phys. 9 1073-1094
- 1992, Gerdyukov, N.N., loilev, A.G. and Novikov, S.A. "Study of the effect of explosive shock loads on soft soils" J. Appl. Mech. Tech. Phys. 33 291-294
- 1992, Gerikhanov, A.K., Bondarenko, A.A., Sereda, N.N. and Kovalchenko, M.S. "Evaluation of the nature of failure of hard alloys under static and impact loading" Sov. Powder Metall. Metal Ceramics 31 153-157
- 1992, Gerland, M., Hallouin, M. and Presles, H.N. "Comparison of two new surface treatment processes, laser-induced shock waves and primary explosive: Application to fatigue behaviour" Mater. Sci. Engng A 156 175-182
- 1992, Gilman, J.J. "The plastic wave myth", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 387-389, publ. Amsterdam, Elsevier
- 1992, Gilman, J.J. "Metallization and insulization during impact", LBL 33020, Berkeley, CA, Lawrence Berkeley Laboratory
- 1992, Glenn, L.A. "On the seismic response to overdriven explosions", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 661-664, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Glushak, B.L., Novikov, S.A. and Batkov, Y.V. "Constitutive equation for describing high strain rates of aluminum and magnesium in a shock wave" Combust. Explos. Shock Waves 28 79-84
- 1992, Gogulya, M.F., Voskoboinikov, I.M., Dolgoborodov, A.Y., Dorokhov, N.S. and Brazhnikov, M.A. "Interaction of sulfur with metals behind shock waves" Sov. J. Chem. Phys. 10 634-637
- 1992, Gogulya, M.F., Voskoboinikov, I.M., Dolgoborodov, A.Y., Dorokhov, N.S. and Brazhnikov, M.A. "Interaction of sulfur and aluminum behind shock waves" Sov. J. Chem. Phys. 11 343-347

- 1992, Gogulya, M.F. and Brazhnikov, M.A. "Some parameters of shock-compression of sulfur" *Sov. Phys. Tech. Phys.* 37 342-344
- 1992, Goltrant, O., Leroux, H., Doukhan, J.C. and Cordier, P. "Formation mechanisms of planar deformation features in naturally shocked quartz" *Phys. Earth Planet. Inter.* 74 219-240
- 1992, Goltrant, O., Doukhan, J.C., Cordier, P. and Courtillot, V. "An investigation by TEM of planar deformation features in naturally shocked quartz" *Terra Nova* 4 405-412
- 1992, Gorelskii, V.A. and Zelepugin, S.A. "Numerical modeling of powder compaction with axisymmetrical impact" *Sov. Powder Metall. Metal Ceramics* 31 291-295
- 1992, Gourdin, W.H. and Lassila, D.H. "Deformation behavior of pre-shocked copper as a function of strain rate and temperature", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 411-414, publ. Amsterdam, North-Holland
- 1992, Gourdin, W.H. and Lassila, D.H. "The mechanical behavior of pre-shocked copper at strain rates of  $10^{-3}$  to  $10^4$  s $^{-1}$  and temperatures of 25-400 °C" *Mater. Sci. Engng A* 151 11-18
- 1992, Grady, D.E. "Shock wave properties of high-strength ceramics", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 455-458, publ. Amsterdam, Elsevier
- 1992, Grady, D.E. and Mashimo, T. "Shock and release wave properties of yttria-doped tetragonal and cubic zirconia" *J. Appl. Phys.* 71 4868-4874
- 1992, Grady, D. "Shock compression properties of ceramics", in "Recent Trends in High Pressure Research", ed. A.K. Singh, pp. 641-650, publ. New Delhi, India, Oxford & IBH Publishing Co. PVT Ltd.
- 1992, Graham, R.A., Anderson, M.U., Bauer, F. and Setchell, R.E. "Piezoelectric polarization of the ferroelectric polymer PVDF from 10 MPa to 10 GPa: Studies of loading path dependence", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 883-886, publ. Amsterdam, Elsevier
- 1992, Gran, J.K., Holmes, B.S. and Curran, D.R. "Measurement of explosive blast loads with flatpack stress gages", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 917-920, publ. Amsterdam, Elsevier
- 1992, Grapotte, D. "Résistance au choc d'un assemblage collé à base d'une résine époxyde modifiée", PhD thesis, Univ. of Bordeaux I
- 1992, Gratz, A.J. and Nellis, W.J. "Microstructures of shocked quartz", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 203-205, publ. Amsterdam, Elsevier

- 1992, Gratz, A.J., Nellis, W.J., Christie, J.M., Brocious, W., Swegle, J. and Cordier, P. "Shock metamorphism of quartz with initial temperatures -170 °C to +1000 °C" *Phys. Chem. Minerals* 19 267-288
- 1992, Gray III, G.T. "Shock experiments in metals and ceramics", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 899-912, publ. New York, Marcel-Dekker
- 1992, Gray III, G.T., Hixson, R.S. and Morris, C.E. "Bauschinger effect during shock loading", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 427-430, publ. Amsterdam, Elsevier
- 1992, Gray III, G.T. and Rollett, A.D. "The high strain rate and spallation response of tantalum, Ta-10W, and T-111", in "High Strain Rate Behavior of Refractory Metals and Alloys", ed. R. Asfahani, E. Chen and A. Crowson, pp. 303-316, publ. Warrendale, Pennsylvania, The Minerals, Metals and Materials Society
- 1992, Grebe, H.A., Advani, A., Thadhani, N.N. and Kottke, T. "Combustion synthesis and subsequent explosive densification of titanium carbide ceramics" *Metall. Trans. A* 23 2365-2372
- 1992, Grevey, D., Maiffredy, L. and Vannes, A.B. "Laser shock on a TRIP alloy: Mechanical and metallurgical consequences" *J. Mater. Sci.* 27 2110-2116
- 1992, Grove, J.W. "Irregular shock refractions at a material interface", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 241-244, publ. Amsterdam, Elsevier
- 1992, Grover, R., Ree, F. and Holmes, N. "Equation-of-state from SiO<sub>2</sub>-aerogel Hugoniot data", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 95-98, publ. Amsterdam, Elsevier
- 1992, Gu, Y., Fu, S., Wang, Y.-G., Ma, M.-X., Yu, S.-Y., Wu, J., Ni, Y.-L., Teng, Y.-H., He, J.-T., Lei, J.-H., Ding, Y.-P., Lai, D.-X., Luo, P.-Q., Yu, R., Zhang, Y.-H. and Xie, H.-M. "Progress of the laser EOS research at SILP", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 57-66, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Gu, C.-G., Tan, H., Jing, F.-Q. and Gou, G.-Q. "Discussions on the thermal relaxation and finite transition rate effects at shocked metal/window interfaces", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 298-303, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Gulbin, V.N. "The structure and properties of explosive welded compounds of titanium with steel and various non-ferrous metals", in "Proc. Int. Symp. on Impact Engineering", ed. I. Maekawa, pp. 652-657, publ. Sendai, Japan, ISIE

- 1992, Gupta, Y.M. "Progress in understanding shock deformation in condensed materials at the atomic/molecular level: Recent experimental developments", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 15-26, publ. Amsterdam, Elsevier
- 1992, Gupta, S.C. "Band structure calculations to predict phase transformations at high pressures", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 157-163, publ. Amsterdam, Elsevier
- 1992, Gupta, S.C., Agarwal, R.G., Gyanchandani, J.S., Roy, S., Suresh, N., Sikka, S.K., Kakodkar, A. and Chidambaram, R. "A single stage gas gun for shock wave studies", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 839-842, publ. Amsterdam, Elsevier
- 1992, Gupta, Y.M. "Time-resolved optical spectroscopy under shock loading: Electronic and chemical changes in liquid carbon disulfide" High Press. Res. 10 717-732
- 1992, Gupta, V., Argon, A.S., Parks, D.M. and Cornie, J.A. "Measurement of interface strength by a laser spallation technique" J. Mech. Phys. Solids 40 141-180
- 1992, Gupta, Y.M. "Examination of shock induced chemical reactions in liquids using time-resolved optical spectroscopy", in "Proc. ONR/LANL Workshop on the Fundamental Physics and Chemistry of Combustion, Initiation, and Detonation of Energetic Materials (CPIA publ. 589)", ed. C.T. Hudson, pp. 149-162, publ. Columbia, Maryland, Chemical Propulsion Information Agency
- 1992, Gupta, S.C. and Gupta, Y.M. "High strain rate response of an elastomer" High Press. Res. 10 785-789
- 1992, Gusak, A.M., Mazanko, V.F., Tomashevskii, N.A. and Falchenko, V.M. "Features of a phase transformation during shock treatment of multicomponent metal systems (in Russian)" Metallofizika 14(3) 33-36
- 1992, Gustavson, P.K., Tasker, D.G. and Forbes, J.W. "Underwater shock wave measurements using PVDF transducers", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 905-908, publ. Amsterdam, Elsevier
- 1992, Gutkin, M.Y. and Ovidko, I.A. "On the rotational effect in shock loaded metals" Mater. Sci. Engng A 154 L9-L10
- 1992, Hama, J. and Suito, K. "Equation of state of water under ultra-high pressure", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 469-472, publ. Berlin, Springer
- 1992, Hara, K., Aoki, K., Peng, J. and Yoshida, T. "Visual small gap test for high-sensitive pyrotechnic compositions", in "Proc. 18th Int. Pyrotechnics Seminar", pp. 367-379, publ. Chicago, IIT Research Institute

- 1992, Harada, T., Kuji, T., Fukuoka, K. and Syono, T. "Dynamic compression of amorphous  $\text{Nd}_{15}\text{Fe}_{77}\text{B}_8$  alloy powders" *J. Mater. Sci. Letts* 11 1072-1074
- 1992, Haskins, P.J. and Cook, M.D. "Monte Carlo simulation of 3-body effects in dense helium", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 135-138, publ. Amsterdam, Elsevier
- 1992, He, H.-L., Jin, X.-G., Chen, P.-X. and Wang, W.-K. "Shock induced crystallization of metallic glass  $\text{Fe}_{40}\text{Ni}_{40}\text{P}_{12}\text{B}_8$ ", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 625-627, publ. Amsterdam, Elsevier
- 1992, He, X., Xin, L.-T., Li, Z.-T. and Liu, J.-W. "Dynamical response of the foamed concrete under impulsive loading", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 265-269, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Hemsing, W.F., Mathews, A.R., Warnes, R.H., George, M.J. and Whittemore, G.R. "VISAR: Line imaging interferometer", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 767-770, publ. Amsterdam, Elsevier
- 1992, Hereil, P.L. and Doubax, F. "Shock induced polymorphic phase transition in a low-alloy steel", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 177-180, publ. Amsterdam, Elsevier
- 1992, Herrmann, W. "Elastic-plastic constitutive equations at large strain", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 379-382, publ. Amsterdam, Elsevier
- 1992, Herrmann, W. "Elastic-plastic descriptions for analysis of transient phenomena", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 29-34, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Hirai, H. and Kondo, K. "A new behavior of carbon under shock compression: Rapid quenching of two new crystalline carbon forms", in "High-Pressure Research: Application to Earth and Planetary Science", ed. Y. Syono and M.H. Manghnani, pp. 417-421, publ. Washington DC, American Geophysical Union
- 1992, Hirata, N., Fujita, R. and Sugata, F. "ESWL for coledocholithiasis", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 1245-1248, publ. Berlin, Springer
- 1992, Hiroe, T., Matsuo, H. and Fujiwara, K. "Numerical simulation of cylindrical converging shocks in solids" *J. Appl. Phys.* 72 2605-2611
- 1992, Hiroe, T., Matsuo, H. and Fujiwara, K. "Numerical simulation of cylindrically converging shocks in solids", in "Proc. Int. Symp. on Impact Engineering", ed. I. Maekawa, pp. 97-102, publ. Sendai, Japan, ISIE



- 1992, Hixson, R.S. and Fritz, J.N. "Shock compression of tungsten and molybdenum" J. Appl. Phys. 71 1721-1728
- 1992, Hixson, R.S. and Fritz, J.N. "Shock compression of iron", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 69-70, publ. Amsterdam, Elsevier
- 1992, Hokamoto, K., Chang, S.S., Yu, L.H. and Meyers, M.A. "Hot shock consolidation of diamond and cubic boron nitride powders", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 453-461, publ. New York, Marcel Dekker
- 1992, Hokamoto, K., Fujita, M., Chiba, A. and Yamamori, M. "Effect of experimental parameters on the size of wavy interface in multilayered material made by single-shot explosive bonding technique", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 1121-1130, publ. New York, Marcel Dekker
- 1992, Holmes, N.C. and See, E.F. "Shock compression of low-density microcellular materials", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 91-94, publ. Amsterdam, Elsevier
- 1992, Hong, S.I., Gray III, G.T. and Lewandowski, J.J. "Microstructural evolution in an Al-Zn-Mg-Cu alloy-20 vol. % SiC composite shock-loaded to 5 GPa" Scripta metall. mater. 27 431-436
- 1992, Horie, Y., Hwang, M. and You, S. "On the modelling of reactive shock synthesis of materials", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 429-434, publ. Berlin, Springer
- 1992, Hoshi, S., Orikasa, S., Kuwahara, M., Suzuki, K., Shirai, S., Yoshikawa, K. and Nose, M. "The treatment of rabbit's implanted urinary bladder cancer with shock waves: The effect of shock waves combined with anti-cancer drug therapy", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 1193-1196, publ. Berlin, Springer
- 1992, Hu, S.-T., Zhang, B.-P., Feng, X.-C. and Hong, B. "Experimental study on synthesis of tungsten carbide", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 820-823, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Huan, S., Lu, F.-Y. and Ding, J. "Attenuation of two-dimensional axisymmetric shock waves in porous Al<sub>2</sub>O<sub>3</sub>", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 261-264, publ. Amsterdam, Elsevier

- 1992, Huang, F., Wang, Z., Yun, S., Ding, J. and Hou, M. "Numerical simulation of two-dimensional spallation in copper", in "Proc. 2nd, Int. Symp. on Intense Dynamic Loading and its Effects", ed. G. Zheng and S. Huang, pp. 324-326, publ. Chengdu, China, Sichuan University Press
- 1992, Huang, F., Bai, C. and Ding, J. "Mechanical response of a composite propellant to dynamic loading", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 491-494, publ. Amsterdam, North-Holland
- 1992, Huang, F.-L., Bai, C.-H., Huan, S. and Ding, J. "Shock initiation of damaged propellant", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 113-115, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Hwang, M., Horie, Y. and You, S. "Modeling of shock-induced chemical reactions in powder mixtures I: The VIR model", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 597-600, publ. Amsterdam, Elsevier
- 1992, Ichihara, A. and Shibata, H. "Clinical studies of extracorporeal shock wave lithotripsy of gallbladder stones: The mechanism of stone disappearance and the induction of ESWL", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 1225-1228, publ. Berlin, Springer
- 1992, Igra, O., Ben-Dor, G., Mazor, G. and Mond, M. "Head-on collision between normal shock waves and a rubber-supported plate: A parametric study" Shock Waves 2 189-200
- 1992, Iqbal, Z., Thadhani, N.N., Rao, K.V. and Ramakrishna, B.L. "Enhanced superconducting properties and defects in shock compacted  $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$  and shock-synthesized  $\text{Tl}_2\text{Ba}_2\text{CuO}_6$  superconductors", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 821-829, publ. New York, Marcel Dekker
- 1992, Ishutkin, S.N., Kuzmin, G.E., Pai, V.v. and Frumin, L.L. "Measurement of the temperature field during the planar steady-state flow of a metal" J. Appl. Mech. Tech. Phys. 33 299-306
- 1992, Ivanov, A.G., Syrunin, M.A. and Fedorenko, A.G. "Spall strength of winding glass-reinforced plastic in three principal directions", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. G. Zhang and S. Huang, pp. 368-373, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Ivanov, A.G. and Ogorodnikov, V.A. "Do brittle and plastic materials differ when spalling?" J. Appl. Mech. Tech. Phys. 33 91-95

- 1992, Ivanov, A.G., Syrunin, M.A. and Fedorenko, A.G. "Effect of reinforcing structures on the critical deformability and strength of shells of oriented glass-plastic composites under an internal explosive load" J. Appl. Mech. Tech. Phys. 33 594-598
- 1992, Ivanov, A.G., Lavrovskii, Y.D. and Ogorodnikov, V.A. "Developing determinant perturbations in collapsing shells" J. Appl. Mech. Tech. Phys. 33 723-725
- 1992, Ivanov, A.G., Ogorodnikov, V.A. and Tyunkin, E.S. "The behavior of shells under impulsive loading: Small perturbations" J. Appl. Mech. Tech. Phys. 33 871-874
- 1992, Japaridze, L., Peikrishvili, A., Chikhradze, N. and Gotsiridze, G. "Importance of preheating at dynamic consolidation of some hard materials", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 463-472, publ. New York, Marcel Dekker
- 1992, Jeandin, M., Vardavoulias, M., Andilevko, S.K., Roman, O.V., Shilkin, V.A. and Usherenko, S.M. "Implantation profonde par explosion dans les métaux: Application au renforcement d'un acier rapide" Mémoires Etudes Scientifiques Revue Métallurgie 89 808-811
- 1992, Jeanloz, R. "Pressure derivative to the bulk modulus: Comment" J. Geophys. Res. 97 15273
- 1992, Jiang, S.-D., Wang, S.-J. and Chen, Z.-Y. "Dynamic response of buried slabs in Loess backfill subjected to blast loads", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 686-689, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Jing, F.Q. "Shock wave research for engineering physics" High Press. Res. 10 759-765
- 1992, Johnson, J.N., Hixson, R.S., Gray III, G.T. and Morris, C.E. "Quasielastic release in shock-compressed solids" J. Appl. Phys. 72 429-441
- 1992, Johnson, J.N. and Tonks, D.L. "Dynamic plasticity in transition from thermal activation to viscous drag", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 371-378, publ. Amsterdam, Elsevier
- 1992, Johnson, G.R. and Holmquist, T.J. "A computational model for brittle materials subjected to large strains, high strain rates and high pressures", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 1075-1082, publ. New York, Marcel-Dekker
- 1992, Johnson, J.N. "Calculation of path-dependent shock-wave hardening" J. Appl. Phys. 72 797-799
- 1992, Johnson, J.B., Brown, J.A., Gaffney, E.S., Blaisdell, G.L., Sturm, M. and Barrett, S.A. "Shock wave studies of snow", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 107-110, publ. Amsterdam, Elsevier

- 1992, Kachan, M.S. and Kuruchkina, E.P. "Thermal dynamics of a weld joint in the collision of dissimilar material plates" *Combust. Explos. Shock Waves* 28 200-205
- 1992, Kanel, G.I., Rasorenov, S.V. and Fortov, V.E. "The dynamic strength of copper single crystals", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 775-782, publ. New York, Marcel-Dekker
- 1992, Kanel, G.I., Rasorenov, S.V. and Fortov, V.E. "The failure waves and spallations in homogeneous brittle materials", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 451-454, publ. Amsterdam, Elsevier
- 1992, Kanel, G.I., Rasorenov, S.V. and Fortov, V.E. "Constitutive factors of a spall fracture", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 364-367, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Kanel, G.I., Utkin, A.V. and Fortov, V.E. "The equations of state and macrokinetics of decomposition of solid explosives in shock and detonation waves" *Sov. Tech. Rev. B. Therm. Phys.* 3(3) 1-86
- 1992, Kani, K., Matsushima, Y. and Matsui, T. "Hugoniot of eight meteorites", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 447-452, publ. Berlin, Springer
- 1992, Karni, S. "Viscous shock profiles and primitive formulations" *SIAM J. Numer. Anal.* 29 1592-1609
- 1992, Katanchik, V.N. and Malyatin, V.V. "Crack growth kinetics under impulse loading" *Strength Mater.* 24 447-449
- 1992, Katsabanis, P.D. "Modelling of the underwater shock sensitivity of polyurethane foam/PETN explosives" *J. Energ. Mater.* 10 189-220
- 1992, Kaushik, T.C., Kulkarni, L.V., Shyam, A. and Srinivasan, M. "Performance of a 40 kJ, 60cm long square-bore railgun" *High Press. Res.* 10 733-741
- 1992, Kedrinskii, V.K. and Chernobaev, N.N. "One-dimensional projection of a liquid shell by an explosive charge" *J. Appl. Mech. Tech. Phys.* 33 851-856
- 1992, Kerrisk, J.F. and Meier, J.K. "Comparisons between fast shock tube calculations and tests", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 1049-1052, publ. Amsterdam, Elsevier
- 1992, Khasainov, B.A. and Ermolaev, B.S. "Excitation of chemical reaction under shock wave compression of liquid explosive substances containing glass microspheres" *Khim. Fiz.* 11 1588-1600

- 1992, Khorev, I.E., Gorelskii, V.A. and Zelepugin, S.A. "Failure and relaxation effects in plates in synchronous contact of two bodies with them" *Strength Mater.* 24 475-478
- 1992, Kikin, P.Y., Pehelintsev, A.I. and Rusin, E.E. "Abrasive wear of steels hardened by impact-wave and thermal laser treatment" *J. Friction Wear* 13(3) 95-97
- 1992, Kim, I.H., Jhung, K.S., Oh, K.-H., Hahn, K.B. and Hong, S.H. "Shock induced chemistry of dry air", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 703-706, publ. Amsterdam, Elsevier
- 1992, Kipp, M.E. and Grady, D.E. "Elastic wave dispersion in high-strength ceramics", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 459-462, publ. Amsterdam, Elsevier
- 1992, Kipp, M.E., Grady, D.E. and Wise, J.L. "Planar shock and penetration response of ceramics", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 1083-1092, publ. New York, Marcel-Dekker
- 1992, Kirkpatrick, S.W., Curran, D.R., Erlich, D.C. and Klopp, R.W. "Three-dimensional analyses of plate impact experiments with circular and star geometries", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 935-938, publ. Amsterdam, Amsterdam
- 1992, Kiselev, A.B. and Yumashev, M.V. "Mathematical modeling of the deformation and fracture of solid fuel in shock loading" *J. Appl. Mech. Tech. Phys.* 33 885-892
- 1992, Kishi, K., Nakazawa, S., Yamao, K., Yoshino, J., Inui, K., Yamachika, N., Okushima, K., Hattori, T. and Yamagishi, S. "Comparative study of extracorporeal shock wave lithotripsy between spark gas system and piezoelectric system", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 1241-1244, publ. Berlin, Springer
- 1992, Kobylkin, I.F., Nosenko, N.I. and Solovev, V.S. "Experimental investigation of the change of the shockwave sensitivity of explosives due to weak precursor waves" *Combust. Explos. Shock Waves* 28 636-639
- 1992, Kochetkov, P.A., Dymchenko, O.V. and Grubskii, A.A. "Methods of preliminary blast-induced strength reduction in rock" *J. Mining Sci.* 28 542-545
- 1992, Koeberl, C. "Water content of glasses from the K/T boundary, Haiti: An indicator of impact origin" *Geochim. Cosmochim. Acta* 56 4329-4332
- 1992, Kondo, K. "Phase transformation of AlN by shock compression", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 191-194, publ. Amsterdam, Elsevier

- 1992, Kondo, K. "Shock compaction method for nanocrystalline ceramics", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 609-612, publ. Amsterdam, Elsevier
- 1992, Kondo, K.-I. "Localization of heat in the shock compressed matter and its application to materials processing" High Press. Res. 10 747-757
- 1992, Kondo, K.-I. and Sawai, S. "Microstructure of a shock-consolidated diamond compact consisting of fine particles" J. Amer. Ceram. Soc. 75 253-256
- 1992, Kondo, K. and Hirai, H. "New crystalline forms of diamond produced by a rapid cooling technique under shock compression", in "Recent Trends in High Pressure Research", ed. A.K. Singh, pp. 656-658, publ. New Delhi, India, Oxford & IBH Publishing Co. PVT Ltd.
- 1992, Kondo, K. "Shock wave fabrication of nanocrystalline materials", in "Recent Trends in High Pressure Research", ed. A.K. Singh, pp. 662-667, publ. New Delhi, India, Oxford & IBH Publishing Co. PVT Ltd.
- 1992, Kondo, K. and Hiramatsu, T. "Shock-induced radiation related to the shear bands in fused quartz", in "Recent Trends in High Pressure Research", ed. A.K. Singh, pp. 863-865, publ. New Delhi, India, Oxford & IBH Publishing Co. PVT Ltd.
- 1992, Korobkin, A. "Blunt-body impact on a compressible liquid surface" J. Fluid Mech. 244 437-453
- 1992, Korshunov, I.G. "High temperature kinetic properties of explosively welded bimetallic contacts of metals in the titanium subgroup" High Temp. 30 772-775
- 1992, Korth, G.E., Williamson, R.L. and Rabin, B.H. "Dynamic compaction of combustion synthesised TiC-Al<sub>2</sub>O<sub>3</sub> composite", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 283-291, publ. New York, Marcel Dekker
- 1992, Kostyukov, N.A. and Yakovlev, I.V. "Structure of a heterogeneous mixture flow under shock loading", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 556-558, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Kostyukov, N.A. "Two-dimensional hydrodynamic effects upon explosive compaction of powdered materials", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 757-761, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Kostyukov, N.A. and Shishkin, Y.D. "Shock compression of gas-saturated powder materials", in "Recent Trends in High Pressure Research", ed. A.K. Singh, pp. 709-711, publ. New Delhi, India, Oxford & IBH Publishing Co. PVT Ltd.
- 1992, Kovalyuk, B.P., Likhtorovich, S.P., Nikiforov, Y.N. and Nishenko, M.M. "Depth distribution of defects in Armco-iron under the impact of shock waves caused by laser illumination (in Russian)" Metallofizika 14(12) 43-49

- 1992, Kovtun, V.I., Pavlovskii, M., Komissarov, V.V. and Trefilov, V.I. "Shock compressibility of the sphalerite modification of boron nitride" *Sov. Phys. Tech. Phys.* 37 784-788
- 1992, Kovtun, V.I., Alekseevskii, V.P., Bochko, A.V., Peleshchuk, V.G., Karyuk, G.G. and Trefilov, V.I. "Cutting properties of polycrystals BNsph sintered in shock-waves" *Sov. Powder Metall. Metal Ceramics* 31 75-80
- 1992, Kovtun, V.I., Kurdyumov, A.V., Zelyavskii, V.B., Ostrovskaya, N.F. and Trefilov, V.I. "Phase and structural transformation in sintering wurtzite boron nitride in shock-waves" *Sov. Powder Metall. Metal Ceramics* 31 1026-1030
- 1992, Kozlov, E.A. "Experimental check of E.I. Zababahin hypothesis concerning limitation of energy calculation in the spherically converging shock-wave front in the medium with phase transitions", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 169-171, publ. Amsterdam, Elsevier
- 1992, Kozlov, E.A., Litvinov, B.V., Kabin, I.G., Matushkin, N.D., Abakshin, E.V., Muakin, V.K., Chinkova, R.H., Gornovaya, I.K., Kuropatenko, V.F., Sapozhnikov, A.T. and Sapozhnikova, G.N. "The acquisition and investigation of submicrocrystal structure materials in experiments on loading of metal spheres by spherically converging shock waves", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 535-537, publ. Amsterdam, Elsevier
- 1992, Kozlov, E.A., Lebedev, M.A. and Litvinov, B.V. "Explosion arrangements for a dynamic compaction and synthesis of materials", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 772-776, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Kozlov, E.A. "Shock adiabat features, phase transition macrokinetics and spall fracture of iron in different phase states" *High Press. Res.* 10 541-582
- 1992, Kozlov, E.A., Buslova, E.S., Boboedova, V.A. and Gorbachev, D.M. "Macrokinetics of  $\alpha$  to  $\epsilon$  phase transition for some steels under different conditions of explosive loading", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 173-176, publ. Amsterdam, Elsevier
- 1992, Kozyrev, N.V. and Golubeva, E.S. "Investigation of the synthesis of ultradispersed diamonds in mixtures of TNT with RDX, HMX and PETN" *Combust. Explos. Shock Waves* 28 560-564
- 1992, Krehl, P. "Erratum: 'Transient pressure effects in a pinch compressed cylindrical metallic conductor'" *J. Appl. Phys.* 72 1206

- 1992, Krueger, B.R. and Vreeland Jr., T. "Shock initiated chemical reactions in 1:1 atomic percent nickel-silicon powder mixtures", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 245-252, publ. New York, Marcel Dekker
- 1992, Krueger, B.R., Mutz, A.H. and Vreeland Jr., T. "Shock-induced and self-propagating high-temperature synthesis reactions in two powder mixtures: 5:3 atomic ratio Ti/Si and 1:1 atomic ratio Ni/Si" Metall. Trans. A 23 55-58
- 1992, Kuidaikulov, A. and Temirbekov, A. "Numerical modeling of nonsteady transient processes in a sphere with cavity subjected to internal dynamic load" Strength Mater. 24 490-493
- 1992, Kulkov, S.N. and Gnyusov, S.F. "Shock-wave fracture of composites with a structurally unstable binder" Combust. Explos. Shock Waves 28 424-425
- 1992, Kunishige, H., Horie, Y. and Sawaoka, A.B. "Shock compaction of diamond powder in reactive mixtures", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 353-359, publ. New York, Marcel Dekker
- 1992, Kuwahara, M., Ioritani, N., Saito, T., Hoshi, S., Shirai, S., Taguchi, K., Orikasa, S., Obara, T., Takayama, K. and Aida, S. "Effects of focused shock waves on biological tissues: Cavitation in the prefocal region and the fluid flow in the focal region", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 41-48, publ. Berlin, Springer
- 1992, Kuzmenkov, E.A. "Shock compressibility and equations of state of alkali metal halides" High Temp. 30 45-50
- 1992, Kuznetsov, N.M. "Stability of shock waves", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 229-232, publ. Amsterdam, Elsevier
- 1992, Kuznetsov, N.M. and Oleinik, I.I. "Numerical simulation of relaxation phenomena in xenon compressed by strong shock wave", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 699-702, publ. Amsterdam, Elsevier
- 1992, Kuznetsov, B.A. "Acoustic emission quality control of bimetal steel titanium obtained by explosive welding" Russ. J. Nondestructive Testing 28 790-794
- 1992, Lalle, P. "Use of glass as window in interferometric measurements of particle velocity", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 751-758, publ. Amsterdam, Elsevier
- 1992, Lamb, F.K., Callen, B.W. and Sullivan, J.D. "An approximate analytical model of shock waves from underground nuclear explosions" J. Geophys. Res. 97 515-535



- 1992, Langenhorst, F., Deutsch, A., Hornemann, U. and Stöffler, D. "Effect of temperature on shock metamorphism of single crystal quartz" *Nature* 356 507-509
- 1992, Lasalvia, J., Meyer, L.W., Hoke, D., Niiler, A. and Meyers, M.A. "Reaction synthesis/dynamic compaction of titanium carbide and titanium boride", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 261-270, publ. New York, Marcel Dekker
- 1992, Lassila, D.H., Leblanc, M. and Gray III, G.T. "High strain rate deformation behavior of shocked copper", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 587-596, publ. New York, Marcel-Dekker
- 1992, Lawrence, R.J. "The equivalence of simple models for radiation-induced impulse", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 785-788, publ. Amsterdam, Elsevier
- 1992, Lebedev, M.A. "The maximum effective explosive cylinder length in the projection of plates using opposing detonation waves" *Combust. Explos. Shock Waves* 28 205-207
- 1992, Lee, L.M., Johnson, D.E., Bauer, F., Reed, R.P. and Greenwoll, J.I. "Piezoelectric polymer PVDF application under soft x-ray induced shock loading", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 879-882, publ. Amsterdam, Elsevier
- 1992, Lee, I.Y.S., Wen, X., Tolbert, W.A. and Dlott, D.D. "Direct measurement of polymer temperature during laser ablation using a molecular thermometer" *J. Appl. Phys.* 72 2440-2448
- 1992, Legrand, M. "Interface instabilities occurring during an explosive driven implosion", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 361-364, publ. Amsterdam, Elsevier
- 1992, Lele, S.K. "Shock-jump relations in a turbulent flow" *Phys. Fluids A* 4 2900-2905
- 1992, Lemberg, V.F. and Psakhie, S.G. "The search for the conditions necessary to initiate chemical reaction by particle collision", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 593-595, publ. Amsterdam, Elsevier
- 1992, Lesser, M. and Field, J. "Studies in shock waves, liquid impact, jets and cavitation", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 61-72, publ. Berlin, Springer

- 1992, Leszczynski, T. "Selected properties of the composite steel plus aluminum plus aluminum alloy manufactured according to the explosive welding process", in "Reliability and Structural Integrity of Advanced Materials", ed. S. Sedmak, A. Sedmak and D. Ruzic, pp. 1015-1020, publ. Warley, UK, Engineering Materials Advisory Services Ltd.
- 1992, Lewis, G. "Effect of lithotripter treatment on the fracture toughness of acrylic bone cement" *Biomaterials* 13 225-229
- 1992, Li, X.-Z., Tang, Z.P. and Zhou, G.-Q. "Mechanism of the shock-induced phase transition in CdS single crystals", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 195-198, publ. Amsterdam, Elsevier
- 1992, Li, X.-J. and Zhang, K. "Explosive welding of multilayer amorphous ribbons into a plate", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 851-854, publ. Amsterdam, Elsevier
- 1992, Li, X.-L. "Experimental investigation on the dynamic characteristics for porous polyurethane and microporous ceramics under shock loading", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 261-264, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Li, M.-S. and Zhao, S. "Investigation of shock hardening of Hadfield steel", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 813-816, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Lin, H.-L., Zhang, R.-Q., Yu, W.-R., Hu, J.-B. and Jing, F.-Q. "Studies on the shock temperature of sodium chloride", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 308-310, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Lin, E.E., Pashchenko, E.N. and Pavelkin, V.N. "Converging shock waves in media with decreasing density" *J. Appl. Mech. Tech. Phys.* 33 629-633
- 1992, Liu, T.-G., Hu, Y.-W. and Zheng, J.-J. "Dynamic finite-deflection analysis of rigid-plastic clamped square plates with stiffener under a blast loading", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 495-498, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Liu, Z.-Y. and Shao, B.-H. "Mechanical analysis of explosive consolidation of metallic powders", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 791-794, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Liu, L.G. and Wu, W.R. "Bulk modulus and equation of state" *Phys. Earth Planet. Inter.* 70 78-84
- 1992, Liu, L.-G. "Chemical composition of the Earth after the giant impact" *Earth Moon Planets* 57 85-97

- 1992, Louro, L.H.L., Ribeiro, J.R.A. and Meyers, M.A. "Dynamic fragmentation of alumina: A simplified model", in "Proc. 13th Int. Symp. Ballistics", ed. Å. Persson, K. Andersson and E.B. Björck, pp. 33-40, publ. Sundyberg, Sweden, National Defence Research Establishment
- 1992, Luther, G.G. and Vesser, L. "A microwave interferometer to measure particle and shock velocities simultaneously", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 775-778, publ. Amsterdam, Elsevier
- 1992, Lynch, C.S. and Charest, J.A. "Practical considerations on the piezofilm gauge technique", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 901-904, publ. Amsterdam, Elsevier
- 1992, Mader, C.L. and Kershner, J.D. "Numerical modeling of the effect of temperature and particle size on shock initiation properties of HMX and TATB" J. Energ. Mater. 10 69-95
- 1992, Maekawa, I., Ed. "Proc. Int. Symp. on Impact Engineering", publ. Sendai, Japan, ISIE
- 1992, Maffre, P. and Peyrard, M. "Molecular-dynamics investigations of shock-induced detonations in inhomogeneous energetic crystals" Phys. Rev. B 45 9551-9561
- 1992, Magelssen, G.R., Bach, D.R., Evans, S., Forslund, D.W., Hockaday, R.G. and Studebaker, J.K. "Long pulse X-ray emission from laser-irradiated exploding cylinders" Phys. Fluids B 4 3747-3752
- 1992, Makarov, O.V. and Kornilov, G.L. "Application of the Monte Carlo method in the processing of experimental data on dynamic deformation of materials" Strength Mater. 24 494-496
- 1992, Mamalis, A.G., Gioftsidis, G.N. and Szalay, A. "On the extrusion of silver-sheathed superconducting billets fabricated by explosive compaction of  $\text{YBa}_2\text{Cu}_3\text{O}_7$  powder" J. Mater. Process. Technol. 30 297-313
- 1992, Mandell, D.A., Holian, K.S. and Henninger, R. "MESA: A 3-D Eulerian hydrocode for penetration mechanics studies", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 931-934, publ. Amsterdam, Elsevier
- 1992, Manson, N. "Comments on the V.A. Michelson theory of detonation" Sov. J. Chem. Phys. 11 348-361
- 1992, Marsh, S.P. and Tan, T.-H. "Hypervelocity plate acceleration", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 1033-1039, publ. Amsterdam, Elsevier
- 1992, Masaitis, V.L. "Impact craters: Are they useful?" Meteoritics 27 21-27

- 1992, Mashimo, T., Kodama, M., Kusaba, S., Fukuoka, K. and Syono, Y. "Hugoniot measurement study of the stabilized zirconia single crystal", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 441-445, publ. Berlin, Springer
- 1992, Mathews, A.R., Boat, R.M., Hemsing, W.F., Warnes, R.H. and Whittemore, G.R. "Full field Fabry-Perot interferometer", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 759-762, publ. Amsterdam, Elsevier
- 1992, Matsumoto, Y., Kameda, M., Takemura, E., Ohashi, H. and Ivandaev, S. "Wave dynamics of bubbly liquids: Mathematical models and numerical simulations", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 535-540, publ. Berlin, Springer
- 1992, Matsuo, H., Fujiwara, K., Hiroe, T., Komada, M. and Tomikawa, H. "Implosion-driven hypervelocity accelerator" J. Appl. Phys. 71 5254-5256
- 1992, Matsuzuki, Y., Tanaka, N., Nishi, M., Matsumoto, K. and Matsumoto, R. "Efficacy and indications of extracorporeal shock wave lithotripsy for gallstones using multipurpose lithotripter", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 1221-1223, publ. Berlin, Springer
- 1992, Mayer, G. "New directions in research on dynamic deformation of materials", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 35-48, publ. New York, Marcel Dekker
- 1992, Mazor, G., Igra, O., Ben-Dor, G., Mond, M. and Reichenbach, H. "Head-on collision of normal shock waves with a rubber-supported wall" Phil. Trans. R. Soc. Lond. A 338 237-269
- 1992, McCarthy, M.F. "Pulse propagation in particulate suspensions" Arch. Ration. Mech. Anal. 120 285-303
- 1992, McDonald, B.E. "Weak shock interaction with a free-slip interface at low grazing angles" J. Acoust. Soc. Amer. 91 718-733
- 1992, McGlaun, J.M. "Shock wave codes at Sandia National Laboratories", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 459-462, publ. Berlin, Springer
- 1992, McMillan, P.F. and Wolf, G.H. "A Raman spectroscopic study of shocked single crystalline quartz" Phys. Chem. Minerals 19(2) 71-79
- 1992, McQueen, R.G. "The velocity of sound behind strong shocks in SiO<sub>2</sub>", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 75-78, publ. Amsterdam, Elsevier
- 1992, Meier, J.K. and Kerrisk, J.F. "An introduction to the fast shock tube (FST)", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 1045-1048, publ. Amsterdam, Elsevier

- 1992, Mello, M.C., Prakash, V. and Clifton, R.J. "Multi-point interferometer for monitoring two-dimensional wave motion", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 763-766, publ. Amsterdam, Elsevier
- 1992, Menikoff, R. and Lackner, K.S. "Generating strong shock waves with a supersonic peristaltic pump", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 1041-1044, publ. Amsterdam, Elsevier
- 1992, Menikoff, R. "Wave structure in one and two dimensional fluid flow", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 421-424, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Meshcheryakov, Y.I. and Atroshenko, S.A. "Multiscale rotations in dynamically deformed solids" Int. J. Solids Structures 29 2761-2778
- 1992, Meshcheryakov, Y.I. and Savenkov, G.G. "Two-level model of the dynamic deformation of metals" J. Appl. Mech. Tech. Phys. 33 603-606
- 1992, Meshcheryakov, Y.I. and Atroshenko, S.A. "Dynamic rotations in crystals" Russ. Phys. J. 35 348-350
- 1992, Meshcheryakov, Y., Atroshenko, S.A., Vasilkov, V.B. and Chernyshenko, A.I. "Criteria of transition from translational to rotational motion of media under shock loading", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 407-410, publ. Amsterdam, Elsevier
- 1992, Meyers, M.A., Murr, L.E. and Staudhammer, K.P., Eds. "Shock-Wave and High-Strain-Rate Phenomena in Materials", publ. New York, Marcel Dekker
- 1992, Meyers, M.A., Yu, L.-H. and Vecchio, K.S. "Shock synthesis of silicides", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 629-632, publ. Amsterdam, Elsevier
- 1992, Minin, I.V. and Minin, O.V. "The numerical experiments on dynamics of shock wave interaction with regular and quasiregular diffraction gratings", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 434-437, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Mintmire, J.W., Robertson, D.H., Brenner, D.W. and White, C.T. "Molecular dynamics simulations of pressure wave effects at voids in a model condensed-phase material", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 147-150, publ. Amsterdam, Elsevier
- 1992, Mittlefehldt, D.W., See, T.H. and Hörz, F. "Dissemination and fractionation of projectile materials in the impact melts from Wabar Crater, Saudi Arabia" Meteoritics 27 361-370

- 1992, Miura, Y., Takayama, K., Kato, T., Kawashima, N. and Yamori, A. "Shock metamorphism in artificial impact craters", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 403-407, publ. Berlin, Springer
- 1992, Mogilevsky, M.A. "Defect nucleation under shock loading", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 875-886, publ. New York, Marcel-Dekker
- 1992, Molokov, I.V. and Mukasyan, A.S. "Explosive treatment of SHS gas-solid systems" Int. J. Self-Propag. High-Temp. Synth. 1 155-159
- 1992, Montanari, R. "Microstructural evolution of AISI 304 steel after repeated shock loadings" Mater. Letts 15 73-78
- 1992, Moore, D.S., Schmidt, S.C., Shaw, M.S. and Johnson, J.D. "Vibrational spectroscopy of shock-compressed liquid CO", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 717-720, publ. Amsterdam, Elsevier
- 1992, Morosin, B., Graham, R.A. and Pollack, S.S. "X-ray diffraction line broadening in shock modified pyrite", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 613-616, publ. Amsterdam, Elsevier
- 1992, Moss, W.C., Mitchell, A.C., Heinle, R. and Fritz, J.N. "Particle velocity measurements near underground nuclear explosions using axially symmetric magnetic gauges", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 867-870, publ. Amsterdam, Elsevier
- 1992, Mulford, R.N., Dick, J.J. and Pettit, D.R. "Shock initiation of PETN crystals: Optical absorption and emission studies", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 725-728, publ. Amsterdam, Elsevier
- 1992, Murata, K., Takahashi, K. and Kato, Y. "Effect of metal confinement on underwater explosion of explosives", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 947-952, publ. Berlin, Springer
- 1992, Murr, L.E. "Novel applications of shock recovery experiments", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 913-924, publ. New York, Marcel-Dekker
- 1992, Murr, L.E. "A comparison of residual superconductivity in shock processed, oxygen deficient, and irradiated Y-Ba-Cu-O", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 865-872, publ. New York, Marcel Dekker

- 1992, Mutz, A.H. and Vreeland Jr., T. "Several techniques for one-dimensional strain shock consolidation of multiple samples", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 425-431, publ. New York, Marcel Dekker
- 1992, Nadezhdin, G.N., Smirnova, S.N. and Fadeenko, Y.I. "The cold resistance of weld joints of several construction steel after impulse loading" *Strength Mater.* 24 497-500
- 1992, Nagayama, K. and Murakami, T. "Grüneisen equation of state for solids and solution of the Riemann problem", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 453-458, publ. Berlin, Springer
- 1992, Nahme, H., Hohler, V. and Stilp, A. "Elastic plastic behavior of shock-loaded Fe-SiO<sub>2</sub> composite materials", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 435-438, publ. Amsterdam, Elsevier
- 1992, Nakamura, A., Mashimo, T. and Kodama, M. "Shock compression of aluminum nitride ceramics", in "Mechanical Behaviour of Materials 6. Vol. 1", ed. M. Jono and T. Inoue, pp. 395-400, publ. Oxford, Pergamon
- 1992, Naumovich, N. and Naumovich, T. "Vibrational mechanisms in explosive welding", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 1143-1150, publ. New York, Marcel Dekker
- 1992, Nellis, W.J., Mitchell, A.C., Erskine, D.J., McCandless, P.C. and Weir, S.T. "Energy gap of molecular hydrogen from electrical conductivity measurements", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 111-112, publ. Amsterdam, Elsevier
- 1992, Nellis, W.J., Mitchell, A.C., McCandless, P.C., Erskine, D.J. and Weir, S.T. "Electronic energy gap of molecular hydrogen from electrical conductivity measurements at high shock pressures" *Phys. Rev. Letts* 68 2937-2940
- 1992, Nellis, W.J., Mitchell, A.C., Holmes, N.C. and McCandless, P.C. "Properties of planetary fluids at high shock pressures and temperatures", in "High-Pressure Research: Application to Earth and Planetary Science", ed. Y. Syono and M.H. Manghnani, pp. 387-391, publ. Washington DC, American Geophysical Union
- 1992, Nellis, W.J., Mitchell, A.C., Holmes, N.C. and McCandless, P.C. "Planetary fluids at high shock pressures and temperatures", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 399-402, publ. Berlin, Springer
- 1992, Nellis, W.J. and Mitchell, A.C. "Fluids at high shock pressures and temperatures", in "Recent Trends in High Pressure Research", ed. A.K. Singh, pp. 487-491, publ. New Delhi, India, Oxford & IBH Publishing Co. PVT Ltd.

- 1992, Nemat-Nasser, S., Sano, Y., Chang, S.N. and Meyers, M.A. "Incubation time and growth pattern of martensite under a short duration stress pulse", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 181-184, publ. Amsterdam, Elsevier
- 1992, Nemes, J.A. and Eftis, J. "Rate dependent modeling of multidimensional impact and post-spall behavior", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 723-732, publ. New York, Marcel-Dekker
- 1992, Nemes, J.A. and Eftis, J. "Pressure-shear waves and spall fracture described by a viscoplastic damage constitutive model" Int. J. Plast. 8 185-207
- 1992, Nesterenko, V.F. "Shock treatment of high  $T_c$  ceramics", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 809-819, publ. New York, Marcel Dekker
- 1992, Nesterenko, V.F. "Pulse compression nature in a strongly nonlinear grained medium", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 236-239, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Nesterenko, V.F. "Shock wave working of high- $T_c$  materials" High Press. Res. 10 767-772
- 1992, Nesterenko, V.F., Panin, B.E., Kulkov, S.N. and Melnikov, A.L. "Modification of submicron ceramic under pulse loading" High Press. Res. 10 791-794
- 1992, Ng, A. "Anomalous transient shock behavior in quartz" High Press. Res. 10 667-673
- 1992, Nifadev, V.I. and Kalinina, N.M. "Gasification of foamed polystyrene during shockwave loading" Combust. Explos. Shock Waves 28 630-636
- 1992, Niiler, A., Kecskes, L.J. and Kottke, T. "Explosive compaction processing of combustion synthesized ceramics and cermets", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 293-301, publ. New York, Marcel Dekker
- 1992, Niou, C.S., Sriram, M.A., Birudavolu, R. and Murr, L.E. "Thermal recovery and kinetic studies of degraded high- $T_c$  superconductivity on explosively fabricated (shock loaded)  $YBa_2Cu_3O_7$  and  $Bi_7Pb_3Sr_{10}Ca_{10}Cu_{15}O_x$ ", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 839-846, publ. New York, Marcel Dekker
- 1992, Norwood, F.R. and Graham, R.A. "Numerical simulation of a sample recovery fixture for high velocity impact", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 989-996, publ. New York, Marcel Dekker



- 1992, Novitsky, E.Z., Sadunov, V.D. and Borisenok, V.A. "Shock wave energy converters based on bulk and film ferroelectrics" *Bull. Russ. Acad. Sci.: Physics* 57 564-566
- 1992, Nutt, G.L. "Finite element simulation of exfoliation experiments" *J. Mater. Res.* 7 203-213
- 1992, Nutt, G.L. and King, W.E. "Comments on the bond strength measurements of Gupta and co-workers" *Mater. Sci. Engng A* 159 135-142
- 1992, Nutt, G.L. and King, W.E. "Use of shock waves to measure adhesion at interfaces", in "Intermetallic Matrix Composites II", ed. D.B. Miracle, D.L. Anton and J.A. Graves, pp. 331-336, publ. Pittsburgh, Materials Research Society
- 1992, O'Donoghue, P.E., Anderson Jr., C.E., Friesenhahn, G.J. and Parr, C.H. "A constitutive formulation for anisotropic materials suitable for wave propagation computer programs" *J. Compos. Mater.* 26 1860-1884
- 1992, Officer, C.B. "The relevance of iridium and microscopic dynamic deformation features toward understanding the Cretaceous Tertiary transition" *Terra Nova* 4 394-404
- 1992, Ogorodnikov, V.A., Ivanov, A.G., Tyunkin, E.S., Grigorev, V.A. and Khokhlov, A.A. "Dependence of spall strength of metals on the amplitude of a shock-wave load" *Combust. Explos. Shock Waves* 28 88-92
- 1992, Oh, K.-H., Jung, K.S., Kim, I.H. and Persson, P.-A. "Two-variable feature of Grüneisen function observed in experimental porous Hugoniot data", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 103-106, publ. Amsterdam, Elsevier
- 1992, Ohshima, T., Tanaka, S. and Teshima, K. "Effects of shock-wave on micro-organisms: An evaluation method of the results", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 1215-1219, publ. Berlin, Springer
- 1992, Okushima, K., Nakazawa, S., Yamao, K., Yoshino, J., Inui, K. and Yamachika, H. "Experience in application of ESWL for choledocholithiasis and pancreatolithiasis", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 1237-1240, publ. Berlin, Springer
- 1992, Oleinik, G.S., Yarosh, V.V., Shevchenko, O.A. and Yurchenko, D.Z. "Microstructure of polycrystalline aluminum nitride formed in shock-waves" *Sov. Powder Metall. Metal Ceramics* 31 874-877
- 1992, Olynick, D.P., Moss, J.N. and Hassan, H.A. "Monte Carlo simulation of nonequilibrium shock fronts" *J. Thermophys. Heat Transfer* 6 626-630
- 1992, Oran, E.S., Jones, D.A. and Sichel, M. "Numerical simulations of detonation transmission" *Proc. R. Soc. Lond. A* 436 267-297
- 1992, Ostapenko, V.V. "The expansion of the difference solution on the front of a traveling shock wave" *Comput. Math. Math. Phys.* 32 245-256

- 1992, Ovidko, I.A. "On new mechanism for plastic flow in shock loaded solids", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 563-566, publ. Amsterdam, Elsevier
- 1992, Owens, F.J., Iqbal, Z. and Thadhani, N.N. "Magnetic field dependent microwave absorption in the shocked 85K superconductor Bi-Sr-Ca-Cu-O", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 855-857, publ. Amsterdam, Elsevier
- 1992, Paisley, D.L., Warnes, R.H. and Kopp, R.A. "Laser-driven flat plate impacts to 100 GPa with sub-nanosecond pulse duration and resolution for material property studies", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 825-828, publ. Amsterdam, Elsevier
- 1992, Paisley, D.L. "Laser-driven miniature plates for one-dimensional impacts at 0.5- $\geq 6$  km/s", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 1131-1141, publ. New York, Marcel Dekker
- 1992, Paisley, D.L., Stahl, D.B. and Garcia, I.A. "Simultaneous velocity interferometry and electronic streak photography of laser-launched plates" Proc. SPIE 1539 252-256
- 1992, Pan, Y.-S. and Wang, J.-H. "Molecular dynamics simulations of shock refraction in one dimensional lattice", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 552-555, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Park, M.K., Oshima, S. and Yamane, R. "Resonance of circular shock waves" JSME Int. J. Ser. II 35 16-22
- 1992, Patuelli, C. and Zaffagnini, M. "X-ray diffraction line broadening Fourier analysis of a dynamic loaded metal matrix composite obtained by liquid infiltration", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 387-392, publ. Berlin, Springer
- 1992, Pavlovskii, A.I., Doltenko, M.I., Bykov, A.I., Egorov, N.I. and Kolokolchikov, N.P. "Isentropic compression technique in megabar region by ultra-high magnetic field pressures", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 207-211, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Peikrshvili, A., Japaridze, L., Gotsiridze, G. and Chikhradze, N. "Shock wave deformation of W-Ni-Fe heavy alloys at elevated temperatures", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 223-229, publ. New York, Marcel-Dekker

- 1992, Perez, M. "Residual temperature measurements of shocked copper and iron plates by infrared pyrometry", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 737-740, publ. Amsterdam, Elsevier
- 1992, Petrie, M.W. and Page, N.W. "Shock consolidation of rapidly solidified neodymium based rare earth magnet powders" *Acta metall. mater.* 40 3195-3203
- 1992, Petrov, E.A., Sakovitch, G.V. and Brylyakov, P.M. "Influence of environment condition on conservation of explosively obtained diamond", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 483-489, publ. New York, Marcel Dekker
- 1992, Pezzica, G. "Numerical modeling of the shock initiation of high explosives", in "Insensitive Munitions (AGARD Proceedings 511)", paper 23, publ. Neuilly sur Seine, France, Advisory Group for Aerospace Research & Development
- 1992, Phillips, L. and Oran, E.S. "Molecular dynamics simulations of shocks in imperfect crystal lattices", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 143-146, publ. Amsterdam, Elsevier
- 1992, Piriz, A.R., Giudice, G.E. and Wouchuk, J.G. "Laser implosion of gas-filled microballoons" *Phys. Fluids B* 4 693-700
- 1992, Podlesak, M. "Investigation of electrical shock conductivity in a polymer shock compression switch", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 847-850, publ. Amsterdam, Elsevier
- 1992, Polishchuk, A.Y. and Fortov, V.E. "New theoretical approach in calculation of laser beam and particle beam ranges in shock-compressed condensed matter", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 781-783, publ. Amsterdam, Elsevier
- 1992, Prakash, V., Freund, L.B. and Clifton, R.J. "Plane strain fracture in plate impact", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 515-518, publ. Amsterdam, Elsevier
- 1992, Prakash, Y., Freund, L.B. and Clifton, R.J. "Stress wave radiation from a crack tip during dynamic initiation" *Trans. ASME: J. Appl. Mech.* 59 356-365
- 1992, Prat, F., Chapelon, J.Y., Ponchon, T., El Fadil, F.A., Theillière, Y., Pansu, D., Berger, F. and Cathignol, D. "Cytotoxic effects of shock-wave induced cavitation on cancer tissues and cells", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 1163-1172, publ. Berlin, Springer

- 1992, Prentice, J.K., Fikani, M.K. and Fuka, M.Z. "TOLTEC: A multidimensional solid dynamics wavecode", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 293-296, publ. Amsterdam, Elsevier
- 1992, Preston, D.L., Tonks, D.L. and Wallace, D.C. "The rate dependence of the saturation flow stress of copper and 1100 aluminum", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 423-426, publ. Amsterdam, Elsevier
- 1992, Puig, T., Decamps, D., Bourda, C., Thomas, T., Serra, J.J., Hautefeuille-Beylat, L. and Condat, M. "Deformation of a g/g' waspaloy after laser shock" Mater. Sci. Engng A 154 183-191
- 1992, Pyrev, V.A. and Solovev, V.S. "Detonation and propulsion characteristics of thin layers of bulk hexogen (RDX)" Combust. Explos. Shock Waves 28 677-680
- 1992, Ramachandran, V., Armstrong, R.W., Barker, D.B., Coffey, C.S., Dick, R.D., Holt, W.H., McKirgan, J.B., Mock Jr., W., Soper, W.G., Williams, J.D., Zerilli, F.J. and Zhang, X.J. "Dislocation mechanics and shock deformation", in "Recent Trends in High Pressure Research", ed. A.K. Singh, pp. 701-708, publ. New Delhi, India, Oxford & IBH Publishing Co. PVT Ltd.
- 1992, Ramesh, K.T. and Clifton, R.J. "Finite deformation analysis of pressure-shear plate impact experiments on an elastohydrodynamic lubricant" Trans. ASME: J. Appl. Mech. 59 754-761
- 1992, Ramseyer, K., Aldahan, A.A., Collini, B. and Landström, O. "Petrological modifications in granitic rocks from the Siljan Impact Structure: Evidence from cathodoluminescence" Tectonophysics 216 195-204
- 1992, Razorenov, S.V. and Kanel, G.I. "Dynamic strength of quartz and ruby single crystals", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 360-363, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Razorenov, S.V., Kanel, G.I., Anufriev, V.G. and Loskutov, V.F. "Deformation and failure of structural steels in pulsed loading" Strength Mater. 24 270-275
- 1992, Redel, T., Eberlein, J., Tkotz, R., Hartmann, W., Stetter, M., Stark, R., Frank, K. and Christiansen, J. "Schlieren diagnostics of pulsed electron beam ablation of PMMA" Appl. Phys. A: Mater. Sci. Process. 54 520-522
- 1992, Ree, F.H. and van Thiel, M. "Effective like- and unlike-pair interactions at high pressure and high temperature", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 225-228, publ. Amsterdam, Elsevier
- 1992, Reimold, W.U., Koeberl, C. and Partridge, T.C. "Pretoria Saltpan Crater: Impact origin confirmed" Geology 20 1079-1082

- 1992, Ren, S. and Chen, Y.-F. "Influence of explosive compaction on microstructure of rapidly solidified Al-Li alloy powders", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 803-806, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Renero, C. and Prieto, F.E. "Shock induced temperature in magnesium oxide, silver, and tantalum" *Shock Waves* 2 201-202
- 1992, Rice, B.M. and Trevino, S.F. "Monte Carlo calculations of the properties of solid nitromethane", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 139-142, publ. Amsterdam, Elsevier
- 1992, Riva, G. and Reggiori, A. "Modeling of low acceleration two stage guns for Tokamak refueling" *Fusion Technol.* 21 31-40
- 1992, Robertson, D.H., Brenner, D.W., Elert, M.L. and White, C.T. "Simulations of chemically-sustained shock fronts in a model energetic material", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 123-126, publ. Amsterdam, Elsevier
- 1992, Robinson, A.C., Vaughan, C.T., Fang, H.E., Diegert, C.F. and Cho, K.-S. "Hydrocode development on the NCUBE and the Connection Machine Hypercubes", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 289-292, publ. Amsterdam, Elsevier
- 1992, Romain, J.P. and Zagouri, D. "Laser shock studies using an electromagnetic gauge for particle velocity measurements", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 801-804, publ. Amsterdam, Elsevier
- 1992, Romain, J.P. and Zagouri, D. "Computer simulations of laser shock compaction of powders", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 407-413, publ. New York, Marcel Dekker
- 1992, Rosenberg, Z. "The response of ceramic materials to shock loading", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 439-446, publ. Amsterdam, Elsevier
- 1992, Rosenberg, Z., Brar, N.S. and Bless, S.J. "Shear strength of titanium diboride under shock loading measured by transverse manganin gauges", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 471-474, publ. Amsterdam, North-Holland
- 1992, Rosenberg, Z., Bless, S.J., Yeshurun, Y. and Brat, N.S. "On the relation between the penetration resistance of ceramic tiles and their dynamic properties", in "Mechanical Behaviour of Materials 6. Vol. 1", ed. M. Jono and T. Inoue, pp. 507-512, publ. Oxford, Pergamon

- 1992, Ross, M. "Shock cooling of liquid nitrogen and superfluid helium" High Press. Res. 10 649-657
- 1992, Rubin, A.E. "A shock-metamorphic model for silicate darkening and compositionally variable plagioclase in CK and ordinary chondrites" Geochim. Cosmochim. Acta 56 1705-1714
- 1992, Ruev, G.A., Fomin, V.M. and Shavaliyev, M.S. "Shock wave structure in ternary gas mixtures with large molecular mass disparity" J. Appl. Mech. Tech. Phys. 33 15-20
- 1992, Ruzanov, A.I. and Volkov, I.A. "A numerical investigation of the failure of spherical shells in explosive loading" Strength Mater. 24 485-489
- 1992, Saitoh, T., Orikasa, S., Kuwahara, M., Kambe, K., Ioritani, N., Taguchi, K. and Shirai, S. "Renal ultrastructural changes after focused shock wave exposure", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 1173-1176, publ. Berlin, Springer
- 1992, Saka, M., Ohba, S. and Abe, H. "Nonlinear wave propagation and shock wave formation in quasi-brittle materials", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 381-386, publ. Berlin, Springer
- 1992, Sakaguchi, Y., Kikuchi, M., Kobayashi, N., Fukuoka, K. and Syono, Y. "Shock-loading effects on flux pinning of the high  $T_c$  superconductor  $La_{1.85}Sr_{0.15}CuO_4$ " Physica C 201 183-188
- 1992, Sano, Y., Tokushima, K., Inoue, Y. and Tomita, Y. "Analytical solutions of shock fitting equations for the multishock compaction of die-contained powder media" Trans. ASME: J. Engng Mater. Technol. 114 63-70
- 1992, Sano, Y. "Multiple shock compaction of simple type powders by punch impact" Trans. ASME: J. Energy Resources Technol. 114 117-138
- 1992, Sanz, J., Piriz, A.R. and Tomasel, F.G. "Self-similar model for tamped ablation driven by thermal radiation" Phys. Fluids B 4 683-692
- 1992, Savenko, O.M. and Gering, G.I. "Damage structure levels in ionic crystals under dynamic load" Sov. Phys. Solid State 34 5-7
- 1992, Sawaoka, A.B., Kunishige, H., Tamura, H. and Horie, Y. "Heterogeneous shock compression mechanism of diamond powders in a metal capsule", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 621-624, publ. Amsterdam, Elsevier
- 1992, Sawaoka, A.B. "Shock-compression processing in Japan", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 323-337, publ. New York, Marcel Dekker
- 1992, Schmidt, S.C., Dick, R.D., Forbes, J.W. and Tasker, D.G., Eds. "Shock Compression of Condensed Matter - 1991", publ. Amsterdam, Elsevier

- 1992, Schmidt, S.C. and Moore, D.S. "Vibrational spectroscopy in shock-compressed liquids", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 212-219, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Schmidt, C.G. and Shockey, D.A. "Reduction of residual stresses in weldments with explosive treatments" *Welding Journal* 71 S443-S446
- 1992, Scott, E.R.D., Keil, K. and Stöffler, D. "Shock metamorphism of carbonaceous chondrites" *Geochim. Cosmochim. Acta* 56 4281-4293
- 1992, Seitz, M.W. and Skews, B.W. "Three-dimensional effects in the study of shock wave loading of porous compressible foams", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 517-520, publ. Berlin, Springer
- 1992, Sekine, T. and Ahrens, T.J. "Equation of state of heated glassy carbon", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 57-60, publ. Amsterdam, Elsevier
- 1992, Sekine, T. "Shock recovery experiment of carbon", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 311-319, publ. New York, Marcel Dekker
- 1992, Sekine, T. and Ahrens, T.J. "Shock-induced transformations in the system NaAlSiO<sub>4</sub>-SiO<sub>2</sub>: A new interpretation" *Phys. Chem. Minerals* 18 359-364
- 1992, Senf, H. and Rothenhäusler, H. "Crack behavior and dynamic response of alumina under impact loading", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 1013-1022, publ. New York, Marcel-Dekker
- 1992, Shang, S.-S. and Meyers, M.A. "Shock densification/hot isostatic pressing of titanium aluminide", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 393-405, publ. New York, Marcel Dekker
- 1992, Shang, J.-L., Bai, Y.L., Shen, L.-T., Cai, X. and Xu, S.-Z. "Dynamic constitutive equation of composite material including effects of strain rate history", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 252-255, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Shang, S.-S., Hokamoto, K. and Meyers, M.A. "Hot dynamic consolidation of hard ceramics" *J. Mater. Sci.* 27 5470-5476
- 1992, Shao, B.-H., Wang, X.-L. and Liu, Z.-Y. "Equation of state of porous metals in explosive compaction", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 473-481, publ. New York, Marcel Dekker

- 1992, Shao, B.-H. and Liu, Z.-Y. "Equation of state for amorphous metallic alloy powders under explosive consolidation", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 244-247, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Shao, B.-H., Liu, Z.-Y., Zhu, H.-W., Xie, Z.-Z., Yang, Y.-Q., Qiu, J. and Yang, R. "Explosive consolidation of cobalt-base amorphous powder", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 777-782, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Sharma, J. "Chemistry of energetic materials under shock caused by electronic excitations", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 639-645, publ. Amsterdam, Elsevier
- 1992, Sharma, J. and Beard, B.C. "Spectroscopy of reacted surfaces" Phil. Trans. R. Soc. Lond. A 339 285-292
- 1992, Shaw, M.S. "Direct Monte Carlo simulation of chemical equilibrium composition of molecular fluid mixtures under shock conditions", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 131-134, publ. Amsterdam, Elsevier
- 1992, Sheffield, S.A. and Alcon, R.R. "In-situ magnetic gauge measurements in Kel-F", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 909-912, publ. Amsterdam, Elsevier
- 1992, Shen, L.-T., Lu, X.-Y. and Xu, S.-Z. "Determination of Hugoniot for carbon phenolic composite material with carbon gauges", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 240-243, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Shen, W.Q. and Jones, N. "Dynamic response of viscoplastic circular plates under impulsive loading", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 449-454, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Shen, H.-R. "Impact response of the shallow-buried sandwich plate under chemical explosions", in "Proc. Int. Symp. on Impact Engineering", ed. I. Maekawa, pp. 617-622, publ. Sendai, Japan, ISIE
- 1992, Shikhverdiev, R.M., Kudashev, R.R., Efimov, O.Y., Zaripov, N.G. and Gordopolov, Y.A. "Shock wave effects on the Ti-C SHS system" Int. J. Self-Propag. High-Temp. Synth. 1 64-66
- 1992, Shishkin, Y.D. "Recording the pore-substance conductivity in shock treatment of Al<sub>2</sub>O<sub>3</sub> ceramic powder" Combust. Explos. Shock Waves 28 188-190



- 1992, Shorohov, E.V. and Litvinov, B.V. "Shock compressibility of the TATB-based explosive composition in the pressure range from 0.1 to 40 GPa", in "Recent Trends in High Pressure Research", ed. A.K. Singh, pp. 866-868, publ. New Delhi, India, Oxford & IBH Publishing Co. PVT Ltd.
- 1992, Sikka, S.K. and Sharma, S.M. "Amorphization under shock loading" High Press. Res. 10 675-680
- 1992, Sikka, S.K. "Behaviour of materials under shock loading conditions" Bull. Mater. Sci. 15 35-46
- 1992, Simonenko, V.A. "Shock compression of condensed matter up to gigabar pressure range", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 41-47, publ. Amsterdam, Elsevier
- 1992, Simonov, V.A. "Additional limitations on the explosive welding region" Combust. Explos. Shock Waves 28 104-108
- 1992, Simonsen, I., Horie, Y., Akashi, T. and Sawaoka, A.B. "Diamond formation in aluminum-nickel/graphite under shock loading", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 233-243, publ. New York, Marcel Dekker
- 1992, Simonsen, I., Horie, Y., Akashi, T. and Sawaoka, A.B. "Diamond formation in aluminium compressed with nickel-graphite under shock loading" J. Mater. Sci. 27 1735-1740
- 1992, Singh, M.C. and Tran, D. "Simple and shock-waves in uniaxial nonlinear elastic solids" J. Acoust. Soc. Amer. 92 877-887
- 1992, Skews, B.W., Atkins, M.D. and Seitz, M.W. "Gas dynamic and physical behaviour of compressible porous foams struck by a weak shock wave", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 511-516, publ. Berlin, Springer
- 1992, Solie, D.J., Johnson, J.B., Dutta, P.K. and Kalafut, J. "Effects of temperature on an ISL-PVDF shock sensor between +20 °C and -40 °C", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 891-892, publ. Amsterdam, Elsevier
- 1992, Song, I. and Thadhani, N.N. "Shock-induced chemical reactions and synthesis of nickel aluminides" Metall. Trans. A 23 41-48
- 1992, Sorek, S., Bear, J., Ben-Dor, G. and Mazor, G. "Shock waves in saturated thermoelastic porous media" Transport Porous Media 9 3-13
- 1992, Sorrell, F.Y. and Kuo, T.-M. "Dynamic response of moist soil to shock loading", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 505-508, publ. Amsterdam, Elsevier
- 1992, Sosa, R. and Mondragon, A. "Universal  $P^{-1/2}$  dependence of the Grüneisen parameter at high pressure" Rev. Mex. Fis. 38 (suppl. 1) 26-30

- 1992, Spiga, G. and Oggioni, S. "On shock wave solutions in extended discrete kinetic theory" *SIAM J. Appl. Math.* 52 105-111
- 1992, Sriram, M.A., Murr, L.E. and Niou, C.S. "Low peak pressure effects on superconductivity in  $\text{Bi}_7\text{Pb}_3\text{Sr}_{10}\text{Ca}_{10}\text{Cu}_{15}\text{O}_x$ ", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 831-838, publ. New York, Marcel Dekker
- 1992, Stapleton, B.S. and Gupta, Y.M. "Response of single crystal calcite shocked to 40 kbar along the c-axis", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 199-202, publ. Amsterdam, Elsevier
- 1992, Staudhammer, K.P. "Measurement of residual temperatures in shock loaded cylindrical samples of 304 stainless steel", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 971-980, publ. New York, Marcel-Dekker
- 1992, Steinberg, D.J. "Computer studies of the dynamic strength of ceramics", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 447-450, publ. Amsterdam, North-Holland
- 1992, Stephan, T. and Jessberger, E.K. "Isotope systematics and shock-wave metamorphism. 3: K-Ar in experimentally and naturally shocked rocks - The Haughton impact structure, Canada" *Geochim. Cosmochim. Acta* 56 1591-1605
- 1992, Stepovik, A.P. "The Grüneisen coefficient for UPV-1 pyrolytic carbon" *J. Appl. Mech. Tech. Phys.* 33 611-613
- 1992, Straub, G.K. "Extrapolation of the shear modulus to high compressions and negative pressures", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 391-394, publ. Amsterdam, Elsevier
- 1992, Stuka, C., Sunka, P., Benes, J., Babicky, V. and Kolacek, K. "Extracorporeal shock wave lithotripsy in Czechoslovakia", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 1211-1214, publ. Berlin, Springer
- 1992, Su, S.-Z., Zhao, Y.-S., Song, H.-M. and Zhou, F.-J. "The experimental research on simulation of long-duration high-overpressure blast wave using plane charge", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 678-681, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Subrahmanyam, J. and Vijayakumar, M. "Self-propagating high-temperature synthesis" *J. Mater. Sci.* 27 6249-6273
- 1992, Sun, L.-Z. and Huang, Z.-P. "Dynamic void growth in rate-sensitive plastic solids" *Int. J. Plast.* 8 903-924

- 1992, Sun, Q. and Yu, Z. "Spall in metal projectile caused by detonation and its suppression", in "Mechanical Behaviour of Materials 6. Vol. 4", ed. M. Jono and T. Inoue, pp. 75-80, publ. Oxford, Pergamon
- 1992, Sweatt, W.C. "Depth of focus in VISAR systems" Rev. Sci. Instrum. 63 2945-2949
- 1992, Swegle, J. "Non-steady wave profiles and the fourth-power law", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 249-252, publ. Amsterdam, Elsevier
- 1992, Syono, Y., Kusaba, K., Atou, T. and Fukuoka, K. "Phase changes in solids during shock loading and unloading", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 121-128, publ. Berlin, Springer
- 1992, Syrunin, M.A., Fedorenko, A.G. and Ivanov, A.G. "Limiting strain in an oriented fiberglass shell on internal explosive loading" Combust. Explos. Shock Waves 28 190-194
- 1992, Takashima, K., Tonda, H., Nishida, M., Hagino, S., Suzuki, M. and Takeshita, T. "Microstructural modifications and critical current densities of explosively compacted oxide superconductors", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 847-856, publ. New York, Marcel Dekker
- 1992, Takashima, K., Tonda, H., Nishida, M., Suzuki, M. and Takeshita, T. "Effects of shock compaction on microstructures and superconducting properties of oxide superconductors", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 849-856, publ. Berlin, Springer
- 1992, Takemura, F., Matsumoto, Y. and Ohashi, H. "Convergence of pressure wave in a liquid", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 541-546, publ. Berlin, Springer
- 1992, Tamagawa, M., Akamatsu, T., Uchida, M. and Watanabe, H. "Development of test apparatus for the shock induced injury of living tissue", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 1177-1180, publ. Berlin, Springer
- 1992, Tan, T.H. and Marsh, S.P. "An explosively driven, fast shock tube", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 465-468, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Tan, H. and Han, J.-W. "Shock synthesis of Wurtzite type boron nitride", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 807-812, publ. Chengdu, P.R. China, Sichuan University Press

- 1992, Tan, Y.-X., Wang, J.-Y., Peng, Y.-L. and Ma, Z.-H. "Transmission electron microscopy analysis of surface explosive strengthened layer for two austenitic steels", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 817-819, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Tanaka, K.A., Kodama, R., Nishihara, K., Kado, M., Nishiguchi, A., Mima, K., Nakai, M., Jitsuno, T., Norimatsu, T., Yamanaka, T. and Nakai, S. "Shock properties of high density deuterium plasma produced by 2w laser", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 863-868, publ. Berlin, Springer
- 1992, Tang, P.K. "A study of the impact of reaction rates on equation of state", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 337-340, publ. Amsterdam, Elsevier
- 1992, Tang, Z.-P., Zhou, G.-Q. and Li, X.-Z. "Laser-induced spalling in aluminum and the analytical model", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 598-602, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Tanimura, S., Kaizu, K. and Higashi, K. "Dynamic behavior of axisymmetric bodies under two-dimensional wave propagation", in "Mechanical Behaviour of Materials 6. Vol. 1", ed. M. Jono and T. Inoue, pp. 371-376, publ. Oxford, Pergamon
- 1992, Tanuma, K. "Asymptotic formulas for the shock waves of the scalar conservation law with smooth initial data" *Quart. Appl. Math.* 50 109-128
- 1992, Tazuma, S., Sagawa, H., Yamashita, G., Aihara, N., Sasaki, M., Hatsushika, D., Tao, S. and Kajiyama, G. "The role of bile acids in extracorporeal shock wave lithotripsy of gallstone patients", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 1201-1204, publ. Berlin, Springer
- 1992, Thadhani, N.N., Advani, A., Song, I., Dunbar, E., Grebe, A. and Graham, R.A. "Shock-induced chemical reactions and synthesis of binary compounds", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 271-281, publ. New York, Marcel Dekker
- 1992, Thadhani, N.N., Work, S., Graham, R.A. and Hammetter, W.F. "Shock induced reaction synthesis (SRS) of nickel aluminides" *J. Mater. Res.* 7 1063-1075
- 1992, Thomas, T., Bensussan, P., Chartagnac, P. and Bienvenu, Y. "Dynamic compaction of copper powder: Experimental results and 2D numerical simulations", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 433-441, publ. New York, Marcel Dekker

- 1992, Timofeev, B.B., Egorov, B.V. and Zvorykin, L.O. "Hydrodynamic theory of shock induced anomalous mass transfer in solids", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 237-240, publ. Amsterdam, Elsevier
- 1992, Tingle, T.N., Tyburczy, J.A., Ahrens, T.J. and Becker, C.H. "The fate of organic matter during planetary accretion: Preliminary studies of the organic chemistry of experimentally shocked Murchison meteorite", in "Origins of Life and Evolution of the Biosphere. Vol. 21", pp. 385-397, publ. The Netherlands, Kluwer Scientific
- 1992, Tong, W., Clifton, R.J. and Huang, S. "Pressure-shear impact investigation of strain rate history effects in oxygen free high conductivity copper" J. Mech. Phys. Solids 40 1251-1294
- 1992, Tonks, D.L. "Reverse plasticity effects in free-surface wave profiles", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 269-272, publ. Amsterdam, Elsevier
- 1992, Tran, P.X., Brenner, D.W. and White, C.T. "Nonlinear dynamics of chains interacting with a steady shock front", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 127-130, publ. Amsterdam, Elsevier
- 1992, Trebinski, R., Trzcinski, W. and Wlodarczyk, E. "Scattering of the detonation products of an explosive with solid particles in a chamber filled with foam" J. Tech. Phys. 33 351-362
- 1992, Trott, W.M. "Studies of laser-driven flyer acceleration using optical fiber coupling", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 829-832, publ. Amsterdam, Elsevier
- 1992, Trunin, R.F., Podurets, M.A., Popov, L.V., Zubarev, V.N., Bakanova, A.A., Ktitorov, V.M., Sevastyanov, A.G., Simakov, G.V. and Dudoladov, I.P. "Measurement of the compressibility of iron at 5.5 TPa" Sov. Phys. JETP 75 777-780
- 1992, Trunin, R.F., Zhernokletov, M.V., Kuznetsov, N.F., Radchenko, O.A., Sychevskaya, N.V. and Shutov, V.V. "Compression of liquid organic substances in shock waves" Khim. Fiz. 11 424-432
- 1992, Trunin, R.F., Zhernokletov, M.V., Dorokhin, V.V. and Sychevskaya, N.V. "Compression of solid organic acids and anhydrides in shock waves" Khim. Fiz. 11 557-562
- 1992, Truskinovsky, L. "Inertial effects in the dynamics of martensitic phase boundaries", in "Shape Memory Materials and Phenomena", pp. 103-108, publ. Pittsburg, Materials Research Society

- 1992, Uchida, M., Watanabe, H., Kitamura, K., Imaide, Y., Yoneda, K., Akamatsu, T. and Tamagawa, M. "Experimental studies on the bioeffects on various shock waves on rats", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 1233-1236, publ. Berlin, Springer
- 1992, Uchiyama, N. and Inoue, O. "On the performance of adaptive mesh refinement" Shock Waves 2 117-120
- 1992, Ukeje, E. "Energy relations for shock waves in internally constrained elastic non-heat conductors" Quart. J. Mech. Appl. Math. 45 199-223
- 1992, Urlin, V.D., Mochalov, M.A. and Mikhailova, O.L. "Liquid xenon study under shock and quasi-isentropic compression" High Press. Res. 8 595-605
- 1992, Utkin, A.V., Kanel, G.I. and Tolstikova, Z.G. "Influence of a filler particle size on the resistance to spall fracture of elastomers", in "Proc. 2nd Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 335-338, publ. Chengdu, China, Sichuan University Press
- 1992, Utkin, A.V. "Analysis of threshold-free fracture of materials on reflection of a compression pulse from a free surface" J. Appl. Mech. Tech. Phys. 33 729-735
- 1992, Utkin, A.V. "Effect of fracture rate on the dynamics of the interaction of an impact load with the surface of a solid" J. Appl. Mech. Tech. Phys. 33 844-851
- 1992, Vaidyanathan, P.V. and Ramanathan, A.R. "Design for quality explosive welding" J. Mater. Process. Technol. 32 439-448
- 1992, van Thiel, M. and Ree, F.H. "Lindemann melting law for anisotropic crystals: Graphite to liquid carbon", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 165-168, publ. Amsterdam, Elsevier
- 1992, Varenova, N.G., Kikin, P.Y., Pchelintsev, A.I. and Rusin, E.E. "Characteristics of decomposition of residual austenite under the action of shock waves excited by laser pulses" Met. Sci. Heat Treat. 34 386-387
- 1992, Vasilev, S.M. and Kirko, V.I. "Structure of dynamic gas flow between colliding plates" Combust. Explos. Shock Waves 28 302-307
- 1992, Vassiliou, M.S., Rhodes, C.G. and Mitchell, M.R. "Dynamic consolidation of intermetallics", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 383-391, publ. New York, Marcel Dekker
- 1992, Vecchio, K.S., Andrade, U., Meyers, M.A. and Meyer, L.W. "Microstructural evolution in high strain, high strain-rate deformation", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 527-530, publ. Amsterdam, Elsevier
- 1992, Vecchio, K.S., LaSalvia, J., Meyers, M.A. and Gray III, G.T. "Microstructural characterization of self-propagating high temperature synthesis/dynamically compacted and hot-pressed titanium carbides" Metall. Trans. A 23 87-97

- 1992, Velikovich, A.L. "The limitations of magnetic field compression by convergent shock waves" *Sov. Phys. Tech. Phys.* 37 604-609
- 1992, Vertman, A. and Zvezdin, Y. "Shock-wave compaction of multilayer containers for underground 'selfburial' of radioactive waste", in "Proc. Int. Symp. on Impact Engineering", ed. I. Maekawa, pp. 270-275, publ. Sendai, Japan, ISIE
- 1992, Vidal, P., Cowperthwaite, M., Presles, H.N. and Fontaine, D. "Sur la courbure d'une détonation bidimensionnelle à l'interface d'un explosif et de son confinement" *C.R. Acad. Sci. Paris II* 315 791-794
- 1992, Viem, N.H. "Isothermal and adiabatic flow laws of metallic elastic-plastic solids at finite strains and propagation of acceleration waves" *Arch. Mech.* 44 595-602
- 1992, Viktorov, V.V. and Mosolov, A.B. "Time effects in loading and unloading at high rates" *Strength Mater.* 24 435-440
- 1992, Vodolaga, B.K. "Shock compressibility of substances at 10 Mbar pressures", in "Recent Trends in High Pressure Research", ed. A.K. Singh, pp. 208-210, publ. New Delhi, India, Oxford & IBH Publishing Co. PVT Ltd.
- 1992, Vodolaga, B.K. "Modelling of shock wave motion in quartz-containing rocks by equilibrium model", in "Recent Trends in High Pressure Research", ed. A.K. Singh, pp. 620-622, publ. New Delhi, India, Oxford & IBH Publishing Co. PVT Ltd.
- 1992, Vodolaga, B.K., Sapozhnikov, A.T. and Filatov, L.I. "Synthesis of diamond by explosive methods", in "Recent Trends in High Pressure Research", ed. A.K. Singh, pp. 659-661, publ. New Delhi, India, Oxford & IBH Publishing Co. PVT Ltd.
- 1992, Volkov, I.A. "Numerical investigation of the spall failure of copper by shock-wave loading" *Combust. Explos. Shock Waves* 28 93-100
- 1992, Volodina, L.V., Zotov, E.V., Krasovskii, G.B., Novikov, S.A., Sinitsyn, V.A., Cheverikin, A.M. and Yakupov, M.M. "Dynamics of viscoelastic spherical shells during internal explosive loading" *Combust. Explos. Shock Waves* 28 403-407
- 1992, Wagner, N.J., Holian, B.L. and Voter, A.F. "Molecular-dynamics simulations of two-dimensional materials at high strain rates" *Phys. Rev. A* 45 8457-8470
- 1992, Wallace, D.C. "Overdriven shocks in solids and liquids", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 233-236, publ. Amsterdam, Elsevier
- 1992, Walsh, J.M., Stradling, G.L., Idzorek, G.C., Schafer, B.P. and Curling Jr., H.L. "On size scaling in shock hydrodynamics and the stress-strain behavior of copper at exceedingly high strain rates", in "Hypervelocity Impacts in Space", ed. J.A.M. McDonnell, pp. 84-91, publ. Canterbury, England, University of Kent at Canterbury
- 1992, Walters, C.T. "Laser generation of 100 kbar shock waves in solids", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 797-800, publ. Amsterdam, Elsevier

- 1992, Walters, W.P. "Shaped charges and shock waves", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 1053-1060, publ. Amsterdam, Elsevier
- 1992, Wang, Y. and Mikkola, D.E. "Response of alpha-aluminum oxide to shock impact", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 1031-1040, publ. New York, Marcel-Dekker
- 1992, Wang, J.-H. and Zhang, J.-G. "Molecular dynamics simulation of ejection induced by reflection of shock wave at free surface of metals", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 151-154, publ. Amsterdam, Elsevier
- 1992, Wang, Z.P., Yun, S.R., Lu, C. and Hou, M. "Inertial effects on growth of void in ductile solids", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 278-281, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Wang, X.-L., Shao, B.-H. and Zhang, D.-L. "2D numerical simulation and theoretical analysis on Mach reflection in metals", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 320-323, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Wang, Z.-P., Gong, X.-G., Ouyang, D.-H., Li, Z.-Y., Cai, M.-L. and Wu, X.-M. "The end effects of explosive cladding with thick flyer plates", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 828-832, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Wang, Y. and Mikkola, D.E. " $\{0001\}\langle 1010\rangle$  slip and basal twinning in sapphire single crystals shock-loaded at room temperature" J. Amer. Ceram. Soc. 75 3252-3256
- 1992, Wark, J.S., Woolsey, N.C. and Whitlock, R.R. "Novel measurements of high-dynamic crystal strength by picosecond x-ray diffraction" Appl. Phys. Letts 61 651-653
- 1992, Wark, J.S., Woolsey, N.C., Riley, D., Blyth, W., Whitlock, R.R. and Keihn, G. "Direct measurements of compressive and tensile strain during shock breakout by use of sub-nanosecond x-ray diffraction", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 813-816, publ. Amsterdam, Elsevier
- 1992, Wark, J.S., Woolsey, N.C., Blyth, W.J. and Whitlock, R.R. "Sub-nanosecond X-ray diffraction from laser-shocked crystals", in "Proc. 18th Int. Symp. on Shock Waves", ed. K. Takayama, pp. 393-398, publ. Berlin, Springer



- 1992, Watanabe, M., Onodera, O., Takayama, K. and Itoh, K. "Shock wave interaction with a flat plate", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 446-448, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Watanabe, M. and Takayama, K. "Stability of converging cylindrical shock waves" JSME Int. J. Ser. II 35 218-227
- 1992, Wei, T.-G. and Wyatt, R.E. "Semiclassical dynamics of shock wave propagation and energy redistribution among vibrational modes in a Morse molecular lattice" J. Phys. Chem. Solids 53 871-881
- 1992, Weir, S.T., Nellis, W.J., Seaman, C.L., Early, E.A., Maple, M.B., Kramer, M.J., Syono, Y., Kikuchi, M., McCandless, P.C. and Brocius, W.F. "Magnetic and electrical properties of shock compacted high  $T_c$  superconductors", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 795-808, publ. New York, Marcel Dekker
- 1992, Weirick, L.J. "Shock characterization of epoxy - 42 volume percent glass microballoons", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 935-946, publ. New York, Marcel-Dekker
- 1992, Weston, G.M. "Flow stress of shock-hardened Remco iron over strain rates from 0.001 to 9000  $s^{-1}$ " J. Mater. Sci. Letts 11 1361-1363
- 1992, Weston, G.M. and Burman, N.M. "The influence of explosive shock hardening on the high strain rate mechanical properties of copper and iron", in "13th Int. Symp. Ballistics", ed. Å. Persson, K. Andersson and E.B. Björck, pp. 367-377, publ. National Defence Research Establishment, Sundryberg, Sweden
- 1992, White, C.T., Robertson, D.H. and Brenner, D.W. "Dissociative phase transitions from hypervelocity impacts" Physica A 188 357-366
- 1992, Whitlock, R.R. and Wark, J.S. "Plasticity in shocked single crystals viewed by pulsed X-ray diffraction", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 809-812, publ. Amsterdam, Elsevier
- 1992, Whitlock, R.R. and Wark, J.S. "X-ray diffraction during shocks", in "Recent Trends in High Pressure Research", ed. A.K. Singh, pp. 196-201, publ. New Delhi, India, Oxford & IBH Publishing Co. PVT Ltd.
- 1992, Winkler, W.D. and Stilp, A.J. "Spallation behavior of  $TiB_2$ , SiC, and  $B_4C$  under planar impact tensile stresses", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 475-478, publ. Amsterdam, North-Holland

- 1992, Winkler, W.D. and Stilp, A.J. "Pressure induced macro- and micromechanical phenomena in planar impacted  $TiB_2$ ", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 555-558, publ. Amsterdam, Elsevier
- 1992, Wise, S., Bless, S.J. and Brar, N.S. "Shock compression of chemically bonded ceramics", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 463-466, publ. Amsterdam, Elsevier
- 1992, Wise, J.L., Kerley, G.I. and Trucano, T.G. "Shock-vaporization studies on zinc and porous carbon", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 61-64, publ. Amsterdam, Elsevier
- 1992, Wittman, C.L., Garrett Jr, R.K., Clark, J.B. and Lopatin, C.M. "Defect structures of shocked tantalum", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 925-934, publ. New York, Marcel-Dekker
- 1992, Wlodarczyk, E. "Analysis of the efficiency of initiation of detonation by 'hot spots' generated by shock compression of gas bubbles included in the explosive. 1: Analysis of the experimental data" J. Tech. Phys. 33 35-61
- 1992, Wlodarczyk, E. "Analysis of the efficiency of initiation of a detonation by hot spots generated by shock compression of gas bubbles included in the explosive. 2: Theoretical analysis" J. Tech. Phys. 33 133-166
- 1992, Wong, M.K.W. and Gupta, Y.M. "Dynamic inclusion analyses of lateral piezoresistive gauges under shock wave loading", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 871-874, publ. Amsterdam, Elsevier
- 1992, Woody, D., Davis, J. and Coffey, S. "Real time imaging of shear bands induced by low velocity shocks during impact of crystals", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 729-732, publ. Amsterdam, Elsevier
- 1992, Woolsey, N.C., Wark, J.S., Blyth, W.J. and Riley, D. "Sub-nanosecond powder x-ray diffraction", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 817-820, publ. Amsterdam, Elsevier
- 1992, Wu, Y.-S., Liu, J.-H. and Zhao, B.-L. "Shock response of ships to underwater explosions", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 47-56, publ. Chengdu, P.R. China, Sichuan University Press

- 1992, Wu, Q., Zhang, G.-R. and Gao, W. "Mechanism of energy deposition at the interface of metallic powder in dynamic consolidation", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 787-790, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Xie, Z.-Z., Qiu, J., Yang, R., Shao, B.-H. and Liu, Z.-Y. "Powder grain effect under shock wave action and its analysis", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 795-798, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Yang, W.-B., Bond, G.M., Tan, H., Ahrens, T.J. and Liu, G. "Dynamic consolidation of superhard materials" *J. Mater. Res.* 7 1501-1518
- 1992, Yarger, F.L., Prieto, F.E. and Loske, A.M. "Underwater shock waves in medical applications", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 843-846, publ. Amsterdam, Elsevier
- 1992, Yoo, C.S., Holmes, N.C. and See, E. "Shock induced optical changes in  $\text{Al}_2\text{O}_3$  at 200 GPa: Implications for shock temperature measurements in metals", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 733-736, publ. Amsterdam, Elsevier
- 1992, Yoo, C.S., Nellis, W.J., Sattler, M.L. and Musket, R.G. "Diamondlike metastable carbon phases from shock-compressed  $\text{C}_{60}$  films" *Appl. Phys. Letts* 61 273-275
- 1992, Yoo, C.S. "Shock induced absorption changes of anthracene in comparison with changes at static high pressures", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 721-724, publ. Amsterdam, Elsevier
- 1992, Yoo, C.S. and Gupta, Y.M. "Shock induced changes and vibronic analysis of the  $^1\text{A}_g$ - $^1\text{L}_a$  absorption band of anthracene" *J. Phys. Chem.* 96 7555-7560
- 1992, Yoshida, M. and Thadhani, N.N. "Study of shock induced solid state reactions by recovery experiments and measurements of Hugoniot and sound velocity", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 585-592, publ. Amsterdam, Elsevier
- 1992, You, S., Horie, Y. and Hwang, M. "Modeling of shock-induced chemical reactions in powder mixtures II: Continuum mixture theory", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 601-604, publ. Amsterdam, Elsevier
- 1992, Young, P.E., Berger, R.L. and Estabrook, K.G. "Measurements of backscattered light from the interaction of 0.35 micron laser light with high-Z targets" *Phys. Fluids B* 4 2605-2613
- 1992, Young, C. "Electromagnetic gauge measurement of dynamic tensile fracturing", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 913-916, publ. Amsterdam, Elsevier

- 1992, Yu, L.H. and Meyers, M.A. "Shock synthesis of silicides", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 303-309, publ. New York, Marcel Dekker
- 1992, Yu, L.-H., Meyers, M.A. and Vecchio, K.S. "Shock synthesis of silicides: Microstructures and mechanisms", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 741-748, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Yuan, X., Sun, C.-W., Huang, Z.-P., Feng, S.-P. and Long, X.-P. "Spallation and micro-fracture of L2 aluminum under shock loading by electric gun", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 270-273, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Yuferev, V.S., Gnedina, M.L. and Gnedin, N.Y. "Influence of the skin effect in a railgun accelerator on the parameters of the moving plasma piston" Sov. Phys. Tech. Phys. 37 41-45
- 1992, Zaretsky, E.B. "X-ray diffraction evidence for the role of stacking faults in plastic deformation of solids under shock loading" Shock Waves 2 113-116
- 1992, Zeldovich, Y.B. "On the possibility of rarefaction shock waves", in "Selected Works of Yakov Borisovich Zeldovich. 1: Chemical Physics and Hydrodynamics", ed. J.P. Ostriker, G.I. Barenblatt and R.A. Sunyaev, pp. 152-154, publ. Princeton, NJ, Princeton University Press
- 1992, Zeqiri, B. "Errors in attenuation measurements due to nonlinear propagation effects" J. Acoust. Soc. Amer. 91 2585-2593
- 1992, Zerilli, F.J. and Armstrong, R.W. "Modeling shock waves with dislocation mechanics based constitutive relations", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 257-260, publ. Amsterdam, Elsevier
- 1992, Zhang, W.-J., Zen, Y.-J., Song, C.-X. and Wang, W. "Study of the dynamic damage accumulation for the stainless steel (00Cr18Ni9)", in "Proc. 2nd Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 339-343, publ. Chengdu, China, Sichuan University Press
- 1992, Zhang, B.P., Zheng, Y.L., Peng, Q.Y. and Xiong, Y.M. "Dynamic behavior of tungsten sintered alloys at high strain rates up to  $10^5 \text{ s}^{-1}$ ", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 431-434, publ. Amsterdam, Elsevier
- 1992, Zhang, B.-P., Xiong, Y.-M., Yang, C. and Jiang, C.-L. "The influence of tungsten-atom transition on the mechanical properties of tungsten alloys", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 519-522, publ. Amsterdam, Elsevier

- 1992, Zhang, K. "The prescribed minimum of impacted point velocity in multilayer explosive welding of amorphous foils", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 1005-1010, publ. New York, Marcel Dekker
- 1992, Zhang, Z.-K., Zhang, F.-S. and Mu, S.-C. "Explosive cladding for metal foils", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 753-756, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Zhang, D.-X., Liu, X.-P., Cai, M., Ma, C.-H. and Li, G.-H. "Explosive-compaction features of zircon sand", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 799-802, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Zhang, Z.Q. and Tang, W.H. "Shock melting of SiC under hypervelocity impact", in "Proc. 6th Int. Conf. on Mechanical Behavior of Materials", ed. M. Jono and T. Inoue, pp. A401-A405, publ. Oxford, Pergamon
- 1992, Zhang, J.-Y., Ai, B., Liu, C., Zhu, R., Zhang, D. and Ma, C. "Microstructures of explosively consolidated rapidly solidified aluminium and Al-Li alloy powders" J. Mater. Sci. 27 2298-2308
- 1992, Zhang, R. and Tang, W. "Shock melting of silicon carbide under hypervelocity impact", in "Mechanical Behaviour of Materials 6. Vol. 1", ed. M. Jono and T. Inoue, pp. 401-405, publ. Oxford, Pergamon
- 1992, Zhao, S.D., Ling, Z., Shen, L.T., Chen, S.X. and Bai, Y.L. "An experimental approach to evolution of spallation", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 523-526, publ. Amsterdam, Elsevier
- 1992, Zhikhareva, T.V. and Tumakeev, G.K. "Mechanism of the broadening of Rydberg lines in inert gases ahead of shock waves" Sov. Phys. Tech. Phys. 37 419-422
- 1992, Zhou, G.-Q., Tang, Z.P. and Li, X.-Z. "Experimental study of spalling strength and the hydro-elastic-viscoplastic constitutive equations with damage", in "Shock Compression of Condensed Matter - 1991", ed. S.C. Schmidt, R.D. Dick, J.W. Forbes and D.G. Tasker, pp. 399-402, publ. Amsterdam, Elsevier
- 1992, Zhuang, S.-M., Wang, C.-Y., Luo, F. and Sun, C.-W. "Spallation of aluminum targets irradiated by pulsed laser beam", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 612-616, publ. Chengdu, P.R. China, Sichuan University Press
- 1992, Zinchenko, A.D., Tarzhanov, V.I., Tokarev, B.B., Pogrebov, A.I. and Sdobnov, V.I. "Optical parameters of thin metal films under laser effect", in "Proc. 2nd. Int. Symp. on Intense Dynamic Loading and its Effects", ed. Z. Guanren and H. Shihui, pp. 583-587, publ. Chengdu, P.R. China, Sichuan University Press

- 1992, Zukas, J.A., Furlong, J.R. and Segletes, S.B. "Hydrocodes support visualization of shock-wave phenomena" *Computers Physics* 6 146-154
- 1992, Zurek, A.K., Frantz, C.E. and Gray III, G.T. "The influence of shock pre-strain and peak pressure on spall behavior of 4340 steel", in "Shock-Wave and High-Strain-Rate Phenomena in Materials", ed. M.A. Meyers, L.E. Murr and K.P. Staudhammer, pp. 759-768, publ. New York, Marcel-Dekker
- 1992, Zweig, A.D. and Deutsch, T.F. "Shock waves generated by confined XeCl excimer laser ablation of polyimide" *Appl. Phys. B* 54 76-82