

Shock Physics Papers 1996

- 1996, Abramova, K.B., Shcherbakov, I.P., Pukhonto, I.Y. and Kondryev, A.M. "The action of laser pulses on metals" Tech. Phys. 41 511-513
- 1996, Ahrens, T.J. "Application of shock compression science to Earth and planetary physics" AIP Conf. Proc. 370 3-8
- 1996, Aizawa, T., Kashiwabara, Y., Asakawa, Y., Fukuoka, K., Shono, Y. and Kihara, J. "Shock induced reactions of titanium aluminides from mechanically alloyed precursor" AIP Conf. Proc. 370 705-708
- 1996, Akhmadeev, I.K. and Bolotnova, R.K. "Modeling of the synthesis reaction in a powdered tin-sulfur mixture initiated by shock loading" Chem. Phys. Rep. 15 901-911
- 1996, Alavi, A. "Hydrogen under extreme conditions" Current Opinion Solid State Mater. Sci. 1 846-852
- 1996, Alcon, R.R. and Mulford, R.N. "Shock tracker configuration of in-material gauge" AIP Conf. Proc. 370 1057-1060
- 1996, Altshuler, L.V., Trunin, R.F., Krupnikov, K.K. and Panov, N.V. "Explosive laboratory devices for shock wave compression studies" Physics Uspekhi 39 539-544
- 1996, Anderson, W.W. and Ahrens, T.J. "Shock temperature and melting in iron sulfides at core pressures" J. Geophys. Res. 101 5627-5642
- 1996, Anderson, M.U. and Graham, R.A. "The new simultaneous PVDF/VISAR measurement technique: Applications to highly porous HMX" AIP Conf. Proc. 370 1101-1104
- 1996, Andreev, N.E., Veisman, M.E., Kostin, V.V. and Fortov, V.E. "Formation of a shock wave under the effect of ultrashort laser pulses" High Temp. 34 373-378
- 1996, Andreev, N.E., Kostin, V.V. and Fortov, V.E. "Generation of shock waves by ultrashort powerful laser pulses: Special features" High Temp. 34 971-975
- 1996, Andreev, N.E., Fortov, V.E. and Kostin, V.V. "Shock wave generation by ultrashort laser pulses" AIP Conf. Proc. 370 1259-1260
- 1996, Antoun, T., Seaman, L., Curran, D. and Glinsky, M. "Damage and failure mechanisms associated with photoablation of biological tissues" AIP Conf. Proc. 370 1277-1280
- 1996, Apazidis, N. and Lesser, M.B. "On generation and convergence of polygonal-shaped shock waves" J. Fluid Mech. 309 301-319
- 1996, Arad, B., Eliezer, S., Gilath, I., Moshe, E. and Simon, C.G. "Laser simulation of hypervelocity impacts in Space", in "Dynamics and Control of Structures in Space III", ed. C.L. Kirk and D.J. Inman, pp. 431-440, publ. Southampton, UK, Computational Mechanics Publications Ltd.

- 1996, Asada, K. and Takahashi, H. "Numerical study for spall fracture conditions", in "Constitutive Relation in High/Very High Strain Rates", ed. K. Kawata and J. Shioiri, pp. 185-192, publ. Tokyo, Springer-Verlag
- 1996, Asakawa, Y., Aizawa, T., Shono, Y., Fukuoka, K. and Kihara, J. "Shock-induced reaction from mechanically alloyed precursor in 3Ni-Al system" AIP Conf. Proc. 370 685-688
- 1996, Aslam, T.D., Bdzhil, J.B. and Stewart, D.S. "Level set methods applied to modeling detonation shock dynamics" J. Comput. Phys. 126 390-409
- 1996, Atroshenko, S.A., Zhigachieva, N.I., Meshcheryakov, Y.I. and Tomilin, M.G. "The method of visualisation of dynamic deformation modes in metals" AIP Conf. Proc. 370 611-613
- 1996, Austing, J.L. and Walker, F.E. "The detonation of solutions of TNT in chlorine trifluoride. II: Computation of the detonation velocity", in "Proc. 22nd Int. Pyrotechnics Seminar", pp. 413-424, publ. Chicago, IIT Research Institute
- 1996, Averin, A.B., Dremov, V.V., Samarin, S.I. and Sapozhnikov, A.T. "Equation of state and phase diagram of carbon" AIP Conf. Proc. 370 65-68
- 1996, Averin, A.N., Alekseev, A.V., Batalov, S.V., Loboiko, B.G., Litvinov, B.V., Sumin, V.D., Filin, V.P. and Yagnakov, A.N. "Investigation into low-temperatures influence on high explosive compounds sensitivity to shock-wave impacts" AIP Conf. Proc. 370 847-849
- 1996, Azzeer, A.M., Al-Dwayyan, A.S., Al-Salhi, M.S., Kamal, A.M. and Harith, M.A. "Optical probing of laser-induced shock waves in air" Appl. Phys. B 63 307-310
- 1996, Baer, M.R., Graham, R.A., Anderson, M.U., Sheffield, S.A. and Gustavsen, R.L. "Experimental and theoretical investigations of shock-induced flow of reactive porous media", in "Proc. 1996 JANNAF Propulsion Systems Hazards Subcommittee Meeting. Vol. 1. (CPIA Publ. 645)", ed. A.H. Watson, pp. 161-169, publ. Columbia, Maryland, Chemical Propulsion Information Agency
- 1996, Baidullaeva, A., Vlasenko, A.I., Vlasenko, Y.V., Dauletmuratov, B.K. and Mozoi, P.E. "Change in the electrical properties of CdTe single crystals produced by a shock wave from a laser pulse" Semiconductors 30 756-759
- 1996, Baltrusaitis, R.M., Gittings, M.L., Weaver, R.P., Benjamin, R.F. and Budzinski, J.M. "Simulation of shock-generated instabilities" Phys. Fluids 8 2471-2483
- 1996, Bardo, R.D. and Agassi, D. "Shock induced energetic phase transformations" Mater. Res. Soc. Symp. Proc. 418 433-438
- 1996, Barrett, J.J.C., Brenner, D.W., Robertson, D.H. and White, C.T. "Detonation of solid O₃: Effects of void collapse" AIP Conf. Proc. 370 191-194
- 1996, Barrett, W.H., Greenwoll, J.I., Smith, C.W., Johnson, D.E. and De la Cruz, C.F. "Noise measurements in shunted, shorted, and fully electroded quartz gauges in the Saturn plasma radiation source X-ray simulator" AIP Conf. Proc. 370 1029-1032

- 1996, Bartkowski, T. and Dandekar, D.P. "Spall strengths of sintered and hot pressed silicon carbide" AIP Conf. Proc. 370 535-538
- 1996, Bashkirov, A.G. and Orlov, A.V. "Shock wave structure for some non-analytical-in-velocity closures" AIP Conf. Proc. 370 263-266
- 1996, Batalov, S.V., Averin, A.N., Batalova, I.A., Loboiko, B.G., Litvinov, B.V. and Filin, V.P. "On the mechanism of diamond formation from explosives" AIP Conf. Proc. 370 753-755
- 1996, Batani, D., Bossi, S., Benuzzi, A., Koenig, M., Faral, B., Boudenne, J.M., Grandjouan, N., Atzeni, S. and Temporal, M. "Optical smoothing for shock-wave generation: Application to the measurement of equations of state" Laser Particle Beams 14 211-223
- 1996, Batani, D., de Rességuier, T., Hallouin, M., Migault, A., Romain, J.P. and Zagouri, D. "Some applications of laser-induced shocks on the dynamic behavior of materials" Laser Particle Beams 14 225-235
- 1996, Batkov, Y.V., Novikov, S.A. and Fishman, N.D. "Shear stresses in polymers under shock compression" AIP Conf. Proc. 370 577-580
- 1996, Batkov, Y.V., Golubev, V.K., Sobolev, Y.S., Trunin, I.R. and Fishman, N.D. "Beryllium fracture under shock loading" J. Appl. Mech. Tech. Phys. 37 484-487
- 1996, Batsanov, S.S. "Solid-phase reactions in shock waves: Kinetic studies and mechanism" Combust. Explos. Shock Waves 32 102-113
- 1996, Batsanov, S.S. "Synthesis and modification of materials by shock waves: Real-time measurements and mechanisms of reaction" Mater. Sci. Engng A 210 57-63
- 1996, Bauer, F. "Properties of ferroelectric polymers under high pressure and shock loading", in "Structures under Shock and Impact IV", ed. N. Jones, C.A. Brebbia and A.J. Watson, pp. 511-520, publ. Southampton, Computational Mechanics Publications
- 1996, Bauer, F., Moulard, H. and Graham, R.A. "Piezoelectric response of ferroelectric polymers under shock loading: Nanosecond piezoelectric PVDF gauge" AIP Conf. Proc. 370 1073-1076
- 1996, Bauer, F., Isner-Brown, P., Moulard, H., Couturier, S., De Resseguier, T. and Boustie, M. "Piezoelectric P(VDF-TrFE) thick copolymers: Response in current mode under shock loading" AIP Conf. Proc. 370 1077-1080
- 1996, Baumung, K., Singer, J., Razorenov, S.V. and Utkin, A.V. "Hydrodynamic proton beam-target interaction experiments using an improved line-imaging velocimeter" AIP Conf. Proc. 370 1015-1018
- 1996, Baumung, K., Bluhm, H.J., Goel, B., Hoppe, P., Karow, H.U., Rusch, D., Fortov, V.E., Kanel, G.I., Razorenov, S.V., Utkin, A.V. and Vorobiev, O.Y. "Shock-wave physics experiments with high-power proton beams" Laser Particle Beams 14 181-209

- 1996, Ben-Dor, G., Cederbaum, G., Mazor, G. and Igra, O. "Well tailored compressive stress-strain relations for elastomeric foams in uni-axial stress compression" J. Mater. Sci. 31 1107-1113
- 1996, Benham, R.A., Weirick, L.J. and Lee, L.M. "Calibration of thin-foil manganin gauge in ALOX material" AIP Conf. Proc. 370 1061-1064
- 1996, Bennett, L.S., Lippert, T., Furutani, H., Fukumura, H. and Masuhara, H. "Laser induced microexplosions of a photosensitive polymer" Appl. Phys. A 63 327-332
- 1996, Bennett III, M.E. and McSween Jr., H.Y. "Shock features in iron-nickel metal and troilite of L-group ordinary chondrites" Meteor. Planet. Sci. 31 255-264
- 1996, Benson, D.J., Nesterenko, V.F. and Jonsdottir, F. "Micromechanics of shock deformation of granular materials" AIP Conf. Proc. 370 603-606
- 1996, Benuzzi, A., Löwer, T., Koenig, M., Faral, B., Batani, D., Beretta, D., Danson, C. and Pepler, D. "Indirect and direct laser driven shock waves and applications to copper equation of state measurements in the 10-40 Mbar pressure range" Phys. Rev. E 54 2162-2165
- 1996, Bernecker, R.R. and Sandusky, H.W. "Fracture characterization of explosive crystals under shock loading", in "Proc. 1996 JANNAF Propulsion Systems Hazards Subcommittee Meeting. Vol. 1. (CPIA Publ. 645)", ed. A.H. Watson, pp. 61-72, publ. Columbia, Maryland, Chemical Propulsion Information Agency
- 1996, Bernecker, R.R. and Anderson, E.W. "The calculation of unreacted Hugoniots. 2: Cast plastic-bonded explosives and cast propellants", in "Proc. 1996 JANNAF Propulsion Systems Hazards Subcommittee Meeting. Vol. 1. (CPIA Publ. 645)", ed. A.H. Watson, pp. 133-144, publ. Columbia, Maryland, Chemical Propulsion Information Agency
- 1996, Bernecker, R.R. "Numerical simulation of shock initiation in simple nitramine systems", in "Proc. 1996 JANNAF Propulsion Systems Hazards Subcommittee Meeting. Vol. 1. (CPIA Publ. 645)", ed. A.H. Watson, pp. 171-184, publ. Columbia, Maryland, Chemical Propulsion Information Agency
- 1996, Bernecker, R.R. "Hugoniots of some elastomeric binder systems" AIP Conf. Proc. 370 137-140
- 1996, Bernecker, R.R. "Observations on the Hugoniot for HMX" AIP Conf. Proc. 370 141-144
- 1996, Berthe, L., Fabbro, R., Peyre, P., Tollier, L. and Bartrnicky, E. "Laser shock processing of materials: Study of laser induced breakdown in water confinement region" Proc. SPIE 2789 246-253
- 1996, Bichenkov, E.I., Gilev, S.D., Ryabchun, A.M. and Trubachev, A.M. "Magnetic-field compression by shock-induced conduction waves in high-porosity materials" J. Appl. Mech. Tech. Phys. 37 785-793

- 1996, Bihari, B.L. "Multiresolution schemes for conservation laws with viscosity" *J. Comput. Phys.* 123 207-225
- 1996, Bilbao, L.E. and Gratton, J. "Spherical and cylindrical convergent shocks" *Nuovo Cimento D* 18 1041-1060
- 1996, Billingsley, J.P. "Energetic materials shock sensitivity relevance to specific heat properties" *AIP Conf. Proc.* 370 429-432
- 1996, Blanco, E., Remiot, C., Mexmain, J.-M. and Herre, P. "Temperature of shocked materials with an infrared pyrometer through a window" *Proc. SPIE* 2744 677-683
- 1996, Bless, S.J. and Rajendran, A.M. "Initiation and propagation of damage caused by impact on brittle materials", in "High Pressure Shock Compression of Solids II: Dynamic Fracture and Fragmentation", ed. L. Davison, D.E. Grady and M. Shahinpoor, pp. 194-218, publ. New York, Springer-Verlag
- 1996, Blokhin, A.M. and Trakhinin, Y.L. "Shock-wave stability for one model of radiation hydrodynamics" *J. Appl. Mech. Tech. Phys.* 37 775-784
- 1996, Boehler, R. "Melting of mantle and core materials at very high pressures" *Phil. Trans. R. Soc. Lond. A* 354 1265-1278
- 1996, Boehler, R. "Agreement between static and shock melting temperatures", in "High Pressure Science and Technology", ed. W.A. Trzeciakowski, pp. 302-304, publ. Singapore, World Scientific
- 1996, Bondar, P.P., Boivan, V. and Plaksii, V.A. "Dilatation of double-layered cylindrical shell under internal explosive loading" *Strength Mater.* 28 446-451
- 1996, Boness, D.A. and Brown, J.M. "Heat capacity of shocked alkali halides" *AIP Conf. Proc.* 370 85-88
- 1996, Bonnan, S. "Modélisation mésomécanique du comportement sous choc de l'aluminium poreux: Validation expérimentale", PhD thesis, Univ. of Ecole Supérieure de Mécanique et d'Aérotechnique, Poitiers, France
- 1996, Bonnett, D.L. and Butler, P.B. "Hot-spot ignition of condensed phase energetic materials" *J. Propulsion Power* 12 680-690
- 1996, Bonyushkin, E.K., Glushak, B.L., Zaveda, N.I., Novikov, S.A., Platonova, L.A., Selchenkova, N.I., Trunin, I.R., Uchaev, A.Y. and Yukina, N.A. "Mechanisms of spalling of metals in the fast space-heating regime in submicrosecond and subnanosecond ranges of durability" *J. Appl. Mech. Tech. Phys.* 37 862-870
- 1996, Boogerd, P., Verbeek, H.J., Stuivinga, M. and van der Steen, A.C. "Shock wave equation of state for metals and ceramics" *AIP Conf. Proc.* 370 89-92
- 1996, Borin, I.P., Bosamykin, V.S. and Molitvin, A.M. "Effect of electromagnetic shock on thermal endurance of copper and its alloys" *Phys. Metals Metallog.* 81 578-580
- 1996, Borodina, T.I., Fortov, V.E., Lash, A.A., Zhuk, A.Z., Babaev, V.G. and Guseva, M.B. "Shock-induced transformations of carbyne" *J. Appl. Phys.* 80 3757-3759

- 1996, Boteler, J.M. and Lindfors, A.J. "Shock loading studies of AP/Al/HTPB based propellants" AIP Conf. Proc. 370 767-770
- 1996, Böttger, W., de la Haye, J. and Prümmer, R. "Shock consolidation of aluminium powder and SiC fiber reinforcement" Propell. Explos. Pyrotech. 21 127-133
- 1996, Bourne, N.K., Rosenberg, Z. and Ginzburg, A. "The ramping of shock waves in three glasses" Proc. R. Soc. Lond. A 452 1491-1496
- 1996, Bourne, N.K., Obara, T. and Field, J.E. "The impact and penetration of a water surface by a liquid jet" Proc. R. Soc. Lond. A 452 1497-1502
- 1996, Bourne, N.K., Rosenberg, Z. and Millett, J.C.F. "The plate impact response of three glasses", in "Structures under Shock and Impact IV", ed. N. Jones, C.A. Brebbia and A.J. Watson, pp. 553-562, publ. Southampton, Computational Mechanics Publications
- 1996, Bourne, N.K., Millett, J.C.F. and Rosenberg, Z. "The shock wave response of a filled glass" Proc. R. Soc. Lond. A 452 1945-1951
- 1996, Bourne, N.K., Millett, J.C.F. and Rosenberg, Z. "Failure in a shocked high-density glass" J. Appl. Phys. 80 4328-4331
- 1996, Bourne, N.K. and Rosenberg, Z. "The dynamic response of soda-lime glass" AIP Conf. Proc. 370 567-572
- 1996, Bourne, N.K. and Rosenberg, Z. "Fractoemission and its effect upon noise in gauges placed near ceramic interfaces" AIP Conf. Proc. 370 1053-1056
- 1996, Boustie, M., Couturier, S., Romain, J.P., Zagouri, D. and Simmonet, H. "Shock pressure and free surface velocity measurements in confined interaction: Response of new VF₂/VF₃ piezoelectric gauges" Laser Particle Beams 14 171-179
- 1996, Boyle, V.M., Frey, R.B. and Bines, A.L. "Parallel/oblique impact on thin explosive samples" AIP Conf. Proc. 370 819-822
- 1996, Braithwaite, M., Byers Brown, W. and Minchinton, A. "The use of ideal detonation computer codes in blast modelling", in "Proc. 5th Int. Symp. on Rock Fragmentation by Blasting", ed. B. Mohanty, pp. 37-44, publ. Rotterdam, A.A. Balkema
- 1996, Brannon, R.M. and Chhabildas, L.C. "Shock-induced vaporization of zinc" AIP Conf. Proc. 370 201-206
- 1996, Brar, N.S. and Rosenberg, Z. "Shock Hugoniot of 1215 steel" AIP Conf. Proc. 370 101-104
- 1996, Braue, W., Schneider, H. and Hornemann, U. "Shock-wave induced formation of 'diaplectic' glasses of mullite 2Al₂O₃:1SiO₂ composition: A TEM study" AIP Conf. Proc. 370 725-728
- 1996, Brenner, D.W., Robertson, D.H., Elert, M.L. and White, C.T. "Errata: Detonations at nanometer resolution using molecular dynamics [Phys. Rev. Lett. 70 2174 (1993)]" Phys. Rev. Letts 76 2202

- 1996, Breusov, O.N., Abrosimova, G.A., Ananiin, A.V., Aronin, A.S., Drobyshev, V.N., Tatsii, V.F. and Ponyatovsky, E.G. "Dimond-like amorphous carbon and nanocrystalline diamond obtained by detonation method" High Press. Res. 15 191-197
- 1996, Briant, C.L., Batcheler, R.H., Lassila, D.H. and Gourdin, W. "The microstructure of tantalum and tantalum-tungsten alloys deformed at low and high strain rates", in "Tantalum", ed. E. Chen, A. Crowson, E. Lavernia, W. Ebihara and P. Kumar, pp. 191-201, publ. Warrendale, Pennsylvania, Minerals, Metals and Materials Society
- 1996, Britan, A., Elperin, T., Igra, O. and Jiang, J.P. "Head-on collision of a planar shock wave with a granular layer" AIP Conf. Proc. 370 971-974
- 1996, Britan, A.B., Zinovik, I.N., Mitichkin, S.Y. and Testov, V.G. "Investigation of processes occurring in the relaxation zone in the action of a shock wave on a gas-liquid foam" Tech. Phys. 41 111-116
- 1996, Browning, R.V. "Microstructural model of mechanical initiation of energetic materials" AIP Conf. Proc. 370 405-408
- 1996, Browning, J.S. and Montoya, J.L. "Hypervelocity impact tests of optical sensors" AIP Conf. Proc. 370 1113-1116
- 1996, Bugaeva, V.A., Evstigneev, A.A. and Trunin, R.F. "Analysis of calculation data on the adiabats of expansion for copper, iron and aluminum" High Temp. 34 674-680
- 1996, Bundy, F.P., Bassett, W.A., Weathers, M.S., Hemley, R.J., Mao, H.K. and Goncharov, A.F. "The pressure-temperature phase and transformation diagram for carbon: Updated through 1994" Carbon 34 141-153
- 1996, Buravova, S.N., Goncharov, A.A. and Kiselev, J.N. "Surface damage under dynamic loading" Tribol. Int. 29 357-363
- 1996, Bushman, A.V., Lomonosov, I.V., Fortov, V.E., Khishchenko, K.V., Zhemokletov, M.V. and Sutulov, Y.N. "Experimental investigation of phenylene and polystyrene under conditions of shock loading and isentropic expansion. Equations of state at high energy densities" J. Exper. Theor. Phys. 82 895-899
- 1996, Butler, D.J. and Brasher, D.G. "Joining and fabricating rhenium using explosive metal working techniques", in "Rhenium and Rhenium Alloys", ed. B.D. Bryskin, pp. 239-249, publ. Warrendale, PA, Minerals, Metals and Materials Society
- 1996, Cai, L. and Zhang, Y.-K. "Study of laser parameters optimum of laser shocking against fatigue and fracture of metal (in Chinese)" Chinese J. Lasers A23 1117-1120
- 1996, Camacho, G.T. and Ortiz, M. "Computational modelling of impact damage in brittle materials" Int. J. Solids Structures 33 2899-2938

- 1996, Cambronero, L.E.G., Gordo, E., Torralba, J.M. and Ruiz-Prieto, J.M. "Comparative study of high speed steels obtained through explosive compaction and hot isostatic pressing" Mater. Sci. Engng A 207 36-45
- 1996, Campbell, E.M., Holmes, N.C., Libby, S.B., Remington, B.A. and Teller, E. "High energy-density physics: From nuclear testing to the superlasers" AIP Conf. Proc. 370 21-27
- 1996, Cauble, R., Da Silva, L.B., Hammel, B.A., Holmes, N.C., Lee, R.W., Perry, T.S. and Phillion, D.W. "The pressure regime 10-750 Mbar: Use of lasers in EOS measurements", in "High Pressure Science and Technology", ed. W.A. Trzeciakowski, pp. 969-973, publ. Singapore, World Scientific
- 1996, Caviglia, G. and Morro, A. "Non-uniqueness of reflected and transmitted waves" Mech. Res. Commun. 23 571-576
- 1996, Cazalis, B., Boissière, C. and Sibille, G. "Shocks induced by laser driven flyer plates. 2: Numerical simulations" AIP Conf. Proc. 370 1217-1220
- 1996, Champagnon, B., Panczer, G., Chemarin, C. and Humbert-Labeaumaz, B. "Raman study of quartz amorphization by shock pressure" J. Non-Cryst. Solids 196 221-226
- 1996, Charlie, W.A., Taylor, T. and Brownell, K.C. "Discussion of 'Model studies of effects on Lunar soils of chemical explosions'" ASCE J. Geotech. Engng 122 601-602
- 1996, Chau, R., Maple, M.B. and Nellis, W.J. "Shock compaction of SmCo₅ particles" J. Appl. Phys. 79 9236-9244
- 1996, Chemarin, C., Panczer, G., Badjukov, D.D. and Champagnon, B. "Progressive transformation from quartz to amorphous silica by shock pressure: Role of the a to b transition" Ber. Bunsenges. Phys. Chem. 100 1396-1398
- 1996, Chen, G.Q. and Ahrens, T.J. "High-pressure melting of iron: new experiments and calculations" Phil. Trans. R. Soc. Lond. A 354 1251-1263
- 1996, Chen, H.C., Meyers, M.A. and Nesterenko, V.F. "Shear localization in granular and comminuted alumina" AIP Conf. Proc. 370 607-610
- 1996, Chen, G.Q., Ahrens, T.J. and Hide, R. "Theory of shock magnetization of asteroids Gaspra and Ida" AIP Conf. Proc. 370 929-932
- 1996, Chen, M. and Xie, X. "Sodium behaviour in shock-induced melt phase of the Yanzhuang (H6) chondrite" Eur. J. Mineral 8 325-333
- 1996, Chen, M., Sharp, T.G., El-Goresy, A., Wopenka, B. and Xie, X.D. "The majorite-pyrope plus magnesiowustite assemblage: Constraints on the history of shock veins in chondrites" Science 271 1570-1573
- 1996, Chhabildas, L.C., Kmetyk, L.N., Reinhart, W.D. and Hall, C.A. "Launch capabilities to 16 km/s" AIP Conf. Proc. 370 1197-1200
- 1996, Chiem, C.-Y., Wang, L.L. and Tanimura, S., eds. "Proc. 2nd Int. Symp. on Impact Engineering", publ. Beijing, Chinese Journal of Mechanics Press

- 1996, Chizhov, A.V. and Schmidt, A.A. "Interaction of a liquid drop with a solid surface" Tech. Phys. Letts 22 117-119
- 1996, Christiansen, E.L., Crews, J.L., Kerr, J.H. and Chhabildas, L.C. "Hypervelocity impact testing above 10 km/s of advanced orbital debris shields" AIP Conf. Proc. 370 1183-1186
- 1996, Clements, B.E., Johnson, J.N. and Hixson, R.S. "Stress waves in composite materials" Phys. Rev. E 54 6876-6888
- 1996, Cline, C.F. "Dynamic compaction of ceramic powders" Indust. Ceram. 16 189-194
- 1996, Clymer, A.K., Rice, D.M. and Montanari, A. "Shocked quartz from the late Eocene: Impact evidence from Massignano, Italy" Geology 24 483-486, 768
- 1996, Coffey, C.S. "Initiation of crystalline explosives by shock or impact" Mater. Res. Soc. Symp. Proc. 418 331-336
- 1996, Coffey, C.S. "Energy dissipation and the initiation of explosives during plastic flow" AIP Conf. Proc. 370 807-810
- 1996, Collins, C. and Thadhani, N. "Shock compression synthesis of carbon nitride compounds", in "Proc. Symp. Processing and Fabrication of Advanced Materials. V", pp. 569-579, publ. Warrendale, Pennsylvania, Minerals, Metals and Materials Society
- 1996, Cook, M.D. and Haskins, P.J. "Projectile impact initiation of a homogeneous explosive" AIP Conf. Proc. 370 823-826
- 1996, Cooper, P.W. "Explosives Engineering", publ. New York, Wiley
- 1996, Courchinoux, R. and Lalle, P. "Dynamic properties of water: Sound velocity and refractive index" AIP Conf. Proc. 370 61-64
- 1996, Couturier, S., de Rességuier, T., Hallouin, M., Romain, J.P. and Bauer, F. "Shock profile induced by short laser pulses" J. Appl. Phys. 79 9338-9342
- 1996, Couturier, S. "Etude de nouveaux capteurs piézoélectriques à base de PVDF: Application à la caractérisation de chocs brefs induits par impulsion laser", PhD thesis, Univ. of Poitiers, France
- 1996, Couturier, S., Boustie, M., de Résséguier, T., Hallouin, M. and Romain, J.P. "Laser driven shock pressure measurements by VF₂/VF₃ and PVDF gages for pulses of 2.5ns up to 10¹² W/cm²" AIP Conf. Proc. 370 1097-1100
- 1996, Curran, D.R., Cooper, T. and Tokheim, R.E. "Model for hot spots in porous frictional material" AIP Conf. Proc. 370 299-302
- 1996, Curran, D.R. and Seaman, L. "Simplified models of fracture and fragmentation", in "High Pressure Shock Compression of Solids II: Dynamic Fracture and Fragmentation", ed. L. Davison, D.E. Grady and M. Shahinpoor, pp. 340-265, publ. New York, Springer-Verlag

- 1996, Dandekar, D.P. "Optical and mechanical properties of soda lime glass under shock compression and release", in "Structures under Shock and Impact IV", ed. N. Jones, C.A. Brebbia and A.J. Watson, pp. 439-448, publ. Southampton, Computational Mechanics Publications
- 1996, Dandekar, D.P. "Experimental technique to measure tensile impedance of a material under plane shock wave propagation" AIP Conf. Proc. 370 947-950
- 1996, Davies, F.W., Reeder, D.L., Johnson, D.E. and Lee, L.M. "The derivation of material properties from measurements of radiation induced stress-time histories" AIP Conf. Proc. 370 1273-1276
- 1996, Davis, L.L. and Brower, K.R. "A study of organic reactions driven by shock waves in liquids" AIP Conf. Proc. 370 775-778
- 1996, Davis, L.L. and Brower, K.R. "Reactions of organic compounds in explosive-driven shock waves" J. Phys. Chem. 100 18775-18783
- 1996, Davison, L., Grady, D.E. and Shahinpoor, M., Eds. "High-Pressure Shock Compression of Solids II: Dynamic Fracture and Fragmentation", publ. New York, Springer
- 1996, De Boer, R. and Liu, Z. "Growth and decay of acceleration waves in incompressible saturated poroelastic solids" Z. angew. Math. Mech. 76 341-347
- 1996, de Rességuier, T., Couturier, S., Boustie, M., David, J., Niérat, G. and Bauer, F. "Characterization of laser-driven shocks of high intensity using piezoelectric polymers" J. Appl. Phys. 80 3656-3661
- 1996, DeCarli, P.S. "Were carbonados synthesized by an ancient impact?" AIP Conf. Proc. 370 757-760
- 1996, Demin, S.N., Golubev, V.V. and Abrosimov, B.G. "The equation of state for a system with a rectangular-well potential: Three-particle distribution function" Russ. J. Phys. Chem. 70 478-482
- 1996, Dick, J.J. "Orientation-dependent shock response of explosive crystals" AIP Conf. Proc. 370 815-818
- 1996, Dimonte, G., Frerking, C.E., Schneider, M. and Remington, B. "Richtmyer-Meshkov instability with strong radiatively-driven shocks" Phys. Plasmas 3 614-630
- 1996, Ding, Z. and Gracewski, S.M. "The behaviour of a gas cavity impacted by a weak or strong shock wave" J. Fluid Mech. 309 183-209
- 1996, Dityatyev, A.A., Epanchintsev, O.G. and Korneyev, A.E. "Oxidation of carbon phases from fullerites after shock-loading" Mol. Mater. 7 297-299
- 1996, Duprey, K. and Clifton, R.J. "Very high strain rate reponse of tantalum", in "Tantalum", ed. E. Chen, A. Crowson, E. Lavernia, W. Ebihara and P. Kumar, pp. 163-172, publ. Warrendale, Pennsylvania, Minerals, Metals and Materials Society
- 1996, Dyja, H., Maranda, A. and Nowaczewski, J. "Joints of steel-brass one-side welded by explosive method" Acta Physica Polonica A 89 411-415

- 1996, Dzegilenko, F.N., Uzer, T. and Herbst, E. "Classical studies of shock-wave induced desorption for model adsorbates" *J. Chem. Phys.* 105 10868-10873
- 1996, Dziecielak, R. "Behaviour of acceleration waves in a viscoelastic porous medium with a structure. 1: Propagation conditions and growth equations" *J. Theor. Appl. Mech.* 34 521-531
- 1996, Dziecielak, R. "Behaviour of acceleration waves in a viscoelastic porous medium with a structure. 2: Linear viscoelastic fluid-saturated porous solid" *J. Theor. Appl. Mech.* 34 533-546
- 1996, Eftis, J. "Constitutive modelling of spall fracture", in "High Pressure Shock Compression of Solids II: Dynamic Fracture and Fragmentation", ed. L. Davison, D.E. Grady and M. Shahinpoor, pp. 399-451, publ. New York, Springer-Verlag
- 1996, Egorov, B.V. and Zvorykin, L.O. "Analysis of character of the mass transfer in metallic crystals with transmitted shock waves (in Russian)" *Metallofiz. Noveish. Tekhnol.* 18(8) 47-56
- 1996, Eisner, K., Lang, A., Schutte, K. and Bergmann, H.W. "Shock hardening as a novel technique for materials processing" *Proc. SPIE* 2789 274-280
- 1996, Elert, M.L., Robertson, D.H., Barrett, J.J.C. and White, C.T. "Molecular dynamics study of reaction zone properties in chemically sustained shock waves" *AIP Conf. Proc.* 370 183-186
- 1996, Eliezer, S. "Laser and particle induced shock waves: A perspective" *Laser Particle Beams* 14 109-111
- 1996, Epanchintsev, O.G., Komeyev, A.E. and Dityatyev, A.A. "Shock-wave synthesis of micron-size diamond from fullerites" *Fullerene Sci. Technol.* 4 449-456
- 1996, Epanchintsev, O.G., Zubchenko, A.S., Kobelev, N.N., Korneyev, A.E., Tretyakov, Y.D., Dytatyev, A.A., Nesterenko, V.F. and Simonov, V.A. "Shock wave diamond synthesis from fullerites" *Mol. Mater.* 7 293-296
- 1996, Eremets, M.I. "High Pressure Experimental Methods", publ. Oxford, Oxford University Press
- 1996, Eremets, M. "Shock waves", in "High Pressure Experimental Methods", pp. 192-204, publ. Oxford, Oxford University Press
- 1996, Ershov, E.P. "Inertia-limited compaction of a porous medium by a gas piston" *J. Appl. Mech. Tech. Phys.* 37 905-912
- 1996, Erskine, D.J. "Increase of the dynamic range of catchup experiments by high-pass filtering" *AIP Conf. Proc.* 370 959-962
- 1996, Erskine, D.J. and Holmes, N.C. "White light velocity interferometry" *AIP Conf. Proc.* 370 1003-1005
- 1996, Erskine, D.J. "Increase in velocimeter depth of focus through astigmatism" *AIP Conf. Proc.* 370 1007-1009
- 1996, Erskine, D.J. "Improved shock-detecting pin arrangement" *AIP Conf. Proc.* 370 1105-1108

- 1996, Eshchenko, E.N., Menshenin, V.V. and Taluts, G.G. "Local processes in iron and titanium alloys upon shock-wave loading" Phys. Metals Metallog. 82 617-621
- 1996, Espinosa, H.D. "Modeling failure waves in brittle materials", in "Structures under Shock and Impact IV", ed. N. Jones, C.A. Brebbia and A.J. Watson, pp. 449-458, publ. Southampton, Computational Mechanics Publications
- 1996, Espinosa, H.D., Mello, M. and Xu, Y. "A desensitized displacement interferometer applied to fast moving particles in a continuum" AIP Conf. Proc. 370 1011-1014
- 1996, Espinosa, H.D. "Dynamic compression-shear loading with in-material interferometric measurements" Rev. Sci. Instrum. 67 3931-3939
- 1996, Espinosa, H.D., Mello, M. and Xu, Y. "A desensitized displacement interferometer applied to impact recovery experiments" Appl. Phys. Letts 69 3161-3163
- 1996, Evans, A.K. "Instability of converging shock waves and sonoluminescence" Phys. Rev. E 54 5004-5011
- 1996, Evans, A.M., Freeman, N.J., Graham, P., Horsfield, C.J., Rothman, S.D., Thomas, B.R. and Tyrrell, A.J. "Hugoniot EOS measurements at Mbar pressures" Laser Particle Beams 14 113-123
- 1996, Faccini, E.C. "Powdered tantalum metal explosively formed penetrator liners", in "Tantalum", ed. E. Chen, A. Crowson, E. Lavernia, W. Ebihara and P. Kumar, pp. 73-94, publ. Warrendale, Pennsylvania, The Minerals, Metals and Materials Society
- 1996, Falcovitz, J., Yamada, K., Nagoya, H. and Takayama, K. "Computation and validation of shock wave interaction with fluid inhomogeneities", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shepherd and H.G. Hornung, pp. 489-494, publ. Singapore, World Scientific
- 1996, Fang, Z. "Pressure dependence of Grüneisen parameter in solids" Phys Status Solidi B 197 39-43
- 1996, Fanget, A., Hereil, P.L. and Martin, C. "Influence of the polymorphic transition and damage in steel on 2D waves propagation" AIP Conf. Proc. 370 235-238
- 1996, Fanget, A. "Stability analysis of numerical solutions of wave propagation when pseudoviscosity is replaced by real viscosity" AIP Conf. Proc. 370 275-278
- 1996, Faral, B., Koenig, M., Boudenne, J.M., Batani, D., Benuzzi, A., Bossi, S., Temporal, M., Atzeni, S. and Löwer, T. "EOS impedance matching experiments at high pressure with smoothed laser beam" AIP Conf. Proc. 370 943-946
- 1996, Farnsworth Jr., A.V. "Laser acceleration of thin flyers" AIP Conf. Proc. 370 1225-1228
- 1996, Feldman, V.I., Sazonova, L.V. and Kotelnikov, S.I. "Shock pressure distribution in the rocks of Vorotilov drill-core (Puchehz-Katunki Astrobleme) (in Russian)" Dokl. Akad. Nauk 349 658-660

- 1996, Feng, R., Raiser, G.F. and Gupta, Y.M. "Shock response of polycrystalline silicon carbide undergoing inelastic deformation" *J. Appl. Phys.* 79 1378-1387
- 1996, Feng, S.S. and Wang, H.F. "A simple method of determining the attenuation of the shock pressure in porous materials" *AIP Conf. Proc.* 370 963-966
- 1996, Feng, C., Wang, L., Chen, L., Zeng, Q., Guo, X., Han, C., Wang, J., Hu, S. and Wang, X. "Experimental study on shock initiation of black powder", in "Theory and Practice of Energetic Materials", ed. C. Feng, Y. Ou and Q. Zeng, pp. 253-265, publ. Beijing, Beijing Institute of Technology Press
- 1996, Ferreira, A. and Costa Jr., A.M. "Analytical model for compaction of powder by means of shock waves" *AIP Conf. Proc.* 370 665-668
- 1996, Fiske, P.S., Nellis, W.J., Lorenzana, H., Lipp, M., Kikuchi, M. and Syono, Y. "Generation of pseudotachylites in shock experiments: Implications for impact cratering products and processes" *AIP Conf. Proc.* 370 1163-1165
- 1996, Fleming, K.J. "Analysis of a high intensity X-ray source using a specialized Doppler interferometer system" *AIP Conf. Proc.* 370 1019-1022
- 1996, Forbes, J., Davis, J. and Wong, C. "Detonation synthesis of nano-size materials" *Mater. Res. soc. Symp. Proc.* 418 439-444
- 1996, Forest, C.A. "Isentrope energy, Hugoniot temperature, and the Mie-Gruneisen equation of state" *AIP Conf. Proc.* 370 31-34
- 1996, Fortov, V.E., Lebedev, M., Dyabilin, K., Vorobev, O., Smirnov, V. and Grabovskij, E. "Generation of shock waves by soft X-radiation from Z-pinch plasma" *AIP Conf. Proc.* 370 1255-1258
- 1996, Fortov, V.E., Dyabilin, K.S., Lebedev, M.E., Smirnov, V.P. and Grabovskii, E.V. "Shock wave excitation by soft X-rays" *Laser Particle Beams* 14 789-792
- 1996, Journey, W.L., Dick, R.D. and Weaver, T.A. "Dynamic response by signal integration", in "Rock Fragmentation by Blasting", ed. B. Mohanty, pp. 87-94, publ. Rotterdam, The Netherlands, A.A. Balkema
- 1996, Frank, A.M. and Trott, W.M. "Investigation of thin laser-driven flyer plates using streak imaging and stop motion microphotography" *AIP Conf. Proc.* 370 1209-1212
- 1996, Freim, J., McKittrick, J. and Nellis, W.J. "The role of dynamic shock compaction in the development of dense, sintered ceramic microstructures", in "High Pressure Science and Technology", ed. W.A. Trzeciakowski, pp. 931-933, publ. Singapore, World Scientific
- 1996, Fridman, B.E. and Rutberg, F.G. "On the use of high, pulsed currents in experiments on dynamic compression of solids" *Tech. Phys.* 41 181-185
- 1996, Fried, L.E. and Tarver, C. "Molecular dynamics simulation of shocks in porous TATB crystals" *AIP Conf. Proc.* 370 179-182
- 1996, Fritz, J.N. "Overtaking wave interaction, reflected shock or reflected release?" *AIP Conf. Proc.* 370 271-274

- 1996, Fritz, J.N., Hixson, R.S., Shaw, M.S., Morris, C.E. and McQueen, R.G. "Overdriven-detonation and sound-speed measurements in PBX-9501 and the 'thermodynamic' Chapman-Jouguet pressure" *J. Appl. Phys.* 80 6129-6141
- 1996, Furnish, M.D. and Ito, E. "Experimental measurements of shock properties of stishovite" *AIP Conf. Proc.* 370 93-96
- 1996, Furnish, M.D., Lassila, D.H., Chhabildas, L.C. and Steinberg, D.J. "Dynamic material properties of refractory metals: Tantalum and tantalum/tungsten alloys" *AIP Conf. Proc.* 370 527-530
- 1996, Furnish, M.D. and Boslough, M.B. "Measuring Hugoniot, reshock and release properties of natural snow and simulants", SAND92-0985, Albuquerque, NM, Sandia National Laboratories
- 1996, Gailly, B. "Etude du comportement dynamique et de la rupture de trois aciers à blindage", PhD thesis, Univ. of Ecole Nationale Supérieure des Mines de Paris
- 1996, Gailly, B. and Petit, J. "Influence of the microstructure on armor steel spalling" *AIP Conf. Proc.* 370 635-638
- 1996, Galbraith, S.D., Rosenberg, Z. and Bourne, N.K. "The determination of the reverse phase transition b2-b1 stress in shock loaded KCl" *AIP Conf. Proc.* 370 219-222
- 1996, Galiev, S.U., Zhurakhovskii, S.V. and Ivashchenko, K.B. "Fracture of solids by radiation pulses as a method of ensuring safety in Space" *Strength Mater.* 28 186-201
- 1996, Gallagher, K.G. and Ahrens, T.J. "Ultra-high pressure thermal conductivity measurements of griceite and corundum", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1401-1406, publ. Singapore, World Scientific
- 1996, Gao, J.-X., Deng, R.-G., Xu, X.-H. and Rao, X.-L. "Effect of shock wave activation on nitriding of $\text{Sm}_2\text{Fe}_{17}$ " *AIP Conf. Proc.* 370 729-732
- 1996, Garcia, B.O. and Chavez, D.J. "Shock compression of liquid hydrazine" *AIP Conf. Proc.* 370 831-834
- 1996, Garrett Jr., R.K., Rajendran, A.M. and Last, H.R. "Modeling spall in HY100, HY130, and AF1410 steels" *AIP Conf. Proc.* 370 323-326
- 1996, Gavrilyuk, S.L. and Shugrin, S.M. "Media with equations of state that depend on derivatives" *J. Appl. Mech. Tech. Phys.* 37 177-189
- 1996, Gefken, P.R. "Spherical waves in saturated sand", IHCR-96-55, Indian Head, MD, Naval Surface Warfare Center
- 1996, Gerasimov, A.V. "Numerical simulation of fracture of plates by confined explosive charges" *Combust. Explos. Shock Waves* 32 347-352
- 1996, Gerasimov, A.V. "Numerical simulation of spallation in thick-walled shells under explosive loads of various types" *J. Appl. Mech. Tech. Phys.* 37 426-432

- 1996, Gilath, I. "Laser induced spallation and dynamic fracture at ultra high strain rate", in "High Pressure Shock Compression of Solids II: Dynamic Fracture and Fragmentation", ed. L. Davison, D.E. Grady and M. Shahinpoor, pp. 90-120, publ. New York, Springer-Verlag
- 1996, Gilev, S.D. and Trubachev, A.M. "Shock-induced conduction waves in solids and their applications in high power systems" AIP Conf. Proc. 370 933-936
- 1996, Gilev, S.D. and Mikhailova, T.Y. "Current wave in shock compression of matter in a magnetic field" Tech. Phys. 41 407-411
- 1996, Gilev, S.D. and Mikhailova, T.Y. "Electromagnetic processes in a system of conductors formed by a shock wave" Tech. Phys. 41 1029-1033
- 1996, Gilev, S.D. "Shock-induced conductivity waves in a conductor placed in an external magnetic field" Combust. Explos. Shock Waves 32 696-701
- 1996, Gilman, J.J. "Topology of phase changes via bond-bending" AIP Conf. Proc. 370 215-219
- 1996, Glenn, L.A. "The influence of rock material models on seismic discrimination of underground nuclear explosions" AIP Conf. Proc. 370 343-346
- 1996, Goel, B., Baumann, K., Höbel, W., Vorobiev, O.Y., Shutov, A.V. and Fortov, V.E. "Numerical analysis of foil acceleration experiments at KALIF" AIP Conf. Proc. 370 1247-1250
- 1996, Goel, B. and Vorobiev, O.Y. "Equation of state information from beam-target interaction experiments at KALIF" Laser Particle Beams 14 637-653
- 1996, Goldshtain, A., Shapiro, M. and Gutfinger, C. "Mechanics of collisional motion of granular materials. 3: Self-similar shock wave propagation" J. Fluid Mech. 316 29-51
- 1996, Golubev, V.K., Sobolev, Y.S. and Yukina, N.A. "Effect of temperature and the initial state on the spalling fracture of alloy 36NKhTYu" Strength Mater. 28 412-414
- 1996, Golubev, V.K., Polyakov, L.V. and Rabinovich, K.G. "On compressibility and grinding of sand particles under compression to 570 MPa" J. Appl. Mech. Tech. Phys. 37 615-616
- 1996, Golubev, V.K., Korshunov, A.I., Sobolev, Y.S., Trunin, I.R. and Yukina, N.A. "The change in mechanical properties of iron, 12Kh18N10T steel, and tantalum in impact loading of near-spalling intensity" Strength Mater. 28 76-78
- 1996, Golubev, V.K., Sobelev, Y.S. and Yukina, N.A. "Effect of the initial state on spalling of copper" Strength Mater. 28 129-130
- 1996, Golubev, V.K., Rabinovich, K.G. and Chernyshev, A.K. "On a failure character of the copper foil by intense X-ray radiation (in Russian)" Metallofiz. Noveish. Tekhnol. 18(12) 26-28
- 1996, Goncharov, G.A. "American and Soviet H-bomb development programmes: Historical background" Physics Uspekhi 39 1033-1044

- 1996, Gopala, R.V. and Venkatesh, R. "Evaluation of Grüneisen parameters, third-order elastic constants, and other associated properties of amorphous arsenic" Phys. Rev. B 53 3119-3123
- 1996, Gordopolov, Y.A., Zotov, N.A., Mukasyan, A.S. and Shikhverdiev, R.M. "Formation of graded ceramics under shock wave loading of SHS products" Int. J. Self-Propag. High-Temp. Synth. 5 191-195
- 1996, Gorshkov, M.M., Zhugin, Y.N., Zaiikin, V.T., Zverev, S.V., Krasnov, V.D., Kruchinin, V.P., Slobodenyukov, V.M. and Yusupov, D.T. "Inductive method of registration of shock-wave parameters in condensed media" Combust. Explos. Shock Waves 32 353-357
- 1996, Gourdin, W.H. and Lassila, D.H. "Multiple mechanisms of thermally activated plastic flow in shocked and unshocked tantalum", in "Tantalum", ed. E. Chen, A. Crowson, E. Lavernia, W. Ebihara and P. Kumar, pp. 219-223, publ. Warrendale, Pennsylvania, Minerals, Metals and Materials Society
- 1996, Grady, D. "Shock equation of state properties of concrete", in "Structures under Shock and Impact IV", ed. N. Jones, C.A. Brebbia and A.J. Watson, pp. 405-414, publ. Southampton, Computational Mechanics Publications
- 1996, Grady, D.E. and Moody, R.L. "Shock compression profiles in ceramics", SAND-0551, UC-704, Sandia National Laboratory
- 1996, Grady, D.E. "Spall and fragmentation in high-temperature metals", in "High Pressure Shock Compression of Solids II: Dynamic Fracture and Fragmentation", ed. L. Davison, D.E. Grady and M. Shahinpoor, pp. 219-236, publ. New York, Springer-Verlag
- 1996, Grady, D.E. "Dynamic decompression properties of concrete from Hugoniot states 3 to 25 GPa", Tech. Memorandum TMDDG0396, Albuquerque, NM, Sandia National Laboratories
- 1996, Grady, D.E. "Shock-wave properties of brittle solids" AIP Conf. Proc. 370 9-20
- 1996, Gratz, A.J., Fisler, D.K. and Bohor, B.F. "Distinguishing shocked from tectonically deformed quartz by the use of the SEM and chemical etching" Earth Planet. Sci. Letts 142 513-521
- 1996, Gray III, G.T., Hixson, R.S. and Johnson, J.N. "Dynamic deformation and fracture response of a 6061-T6 Al - 50 vol. % Al_2O_3 continuous reinforced composite" AIP Conf. Proc. 370 547-550
- 1996, Grieve, R.A.F., Langenhorst, F. and Stöffler, D. "Shock metamorphism of quartz in nature and experiment. 2: Significance in geoscience" Meteoritics 31 6-35
- 1996, Gu, Y., Fu, S.Z., Wu, J., Yu, S.Y., Ni, Y.L. and Wang, S.J. "Equation of state studies at SILP by laser-driven shock waves" Laser Particle Beams 14 157-169
- 1996, Guéry, J.-F. and Seaman, L. "Simulations of microfractures in solid rocket propellants" AIP Conf. Proc. 370 651-654

- 1996, Guo, F., Zhao, X. and Lin, W. "The simulation study of the explosives water jet shock sensitivity", in "Theory and Practice of Energetic Materials", ed. C. Feng, Y. Ou and Q. Zeng, pp. 322-328, publ. Beijing, Beijing Institute of Technology Press
- 1996, Guo, F., Zhao, X. and Li, H. "The safety test for water jet impact explosive", in "Theory and Practice of Energetic Materials", ed. C. Feng, Y. Ou and Q. Zeng, pp. 329-334, publ. Beijing, Beijing Institute of Technology Press
- 1996, Gupta, S.C. and Sikka, S.K. "Some investigations on shock wave induced phase transitions" Shock Waves 6 345-359
- 1996, Gupta, V., Pronin, A. and Anand, K. "Mechanisms and quantification of spalling failure in laminated composites under shock loading" J. Compos. Mater. 30 722-747
- 1996, Gupta, S.C. "Phase transition studies using gas gun" Indian J. Pure Appl. Phys. 34 651-662
- 1996, Gustavsen, R.L., Sheffield, S.A. and Alcon, R.R. "Low pressure shock initiation of porous HMX for two grain size distributions and two densities" AIP Conf. Proc. 370 851-854
- 1996, Gvozdeva, L.G., Lagutov, Y.P., Sharov, Y.L. and Sherbak, N.B. "Structure of deformation waves in porous compressible materials: Influence of percolation", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1392-1398, publ. Singapore, World Scientific
- 1996, Haack, H., Scott, E.R.D. and Rasmussen, K.L. "Thermal and shock history of mesosiderites and their large parent asteroid" Geochim. Cosmochim. Acta 60 2609-2619
- 1996, Haddow, J.B. and Jiang, L. "A study of finite amplitude plane wave propagation in a rubber-like solid" Wave Motion 24 211-225
- 1996, Hama, J. and Suito, K. "The search for a universal equation of state correct up to very high pressures" J. Phys.: Condens. Matter 8 67-81
- 1996, Hamad, H. "Effect of viscosity on the structure of shock waves" Proc. R. Soc. Lond. A 452 2163-2172
- 1996, Hammel, B.A., Cauble, R., Celliers, P., DaSilva, L.B., Dittrich, T.R., Griswold, D., Haan, S.W., Holmes, N., Landen, O.L., Orzechowski, T. and Perry, T.S. "Shock physics with the NOVA laser for ICF applications" AIP Conf. Proc. 370 1281-1285
- 1996, Hammerberg, J.E., Holian, B.L. and Zhou, S.J. "Studies of sliding friction in compressed copper" AIP Conf. Proc. 370 307-310
- 1996, Hare, D.E., Lee, J.-Y.S., Hill, J.R., Franken, J., Suzuki, H., Baer, B.J., Chronister, E.L. and Dlott, D.D. "Ultrafast dynamics of shock waves and shocked energetic materials" Mater. Res. Soc. Symp. Proc. 418 337-348

- 1996, Haskins, P.J. and Cook, M.D. "Molecular dynamics studies of thermal and shock initiation in energetic materials" AIP Conf. Proc. 370 195-198
- 1996, Hatt, D.J. and Waschl, J.A. "A study of laser-driven flyer plates" AIP Conf. Proc. 370 1221-1224
- 1996, Hazell, P.J. and Iremonger, M.J. "A microfracture damage model for ceramic impact and its application within AUTODYN", in "Proc. 16th Int. Symp. on Ballistics. Vol. 3", pp. 475-483, publ. Arlington, Virginia, American Defense Preparedness Association
- 1996, He, H.-L., Jin, X.-G., Jing, F.-Q. and Ahrens, T.J. "Characteristic of dynamic tensile fracture in augite-peridotite" AIP Conf. Proc. 370 593-596
- 1996, He, H.-L., Shi, S.-C., Tan, H. and Xu, K. "Shock compression of ZnO+ α -Fe₂O₃ powder mixture" AIP Conf. Proc. 370 721-723
- 1996, Held, M. "Barrier-test" Propell. Explos. Pyrotech. 21 24-28
- 1996, Held, M. "Flying plate detonator" Propell. Explos. Pyrotech. 21 134-138
- 1996, Held, M. "Initiation criteria of high explosives, attacked with projectiles of different densities", in "Energetic Materials: Technology, Manufacturing and Processing", paper 42, publ. Karlsruhe, Germany, Fraunhofer Institut für Chemische Technologie
- 1996, Henninger, R.J., Maudlin, P.J. and Harstad, E.N. "Differential sensitivity theory applied to the MESA2D code for multi-material problems" AIP Conf. Proc. 370 283-286
- 1996, Hill, L.G., Seitz, W.L., Kramer, J.F., Murk, D.M. and Medina, R.S. "Wedge test data for three new explosives: LAX112, 2,4-DNI, and TNAZ" AIP Conf. Proc. 370 803-806
- 1996, Hill, L.G. and Kapila, A.K. "Dynamic compaction of granular materials in a tube with wall friction, applied to deflagration-to-detonation transition", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1413-1418, publ. Singapore, World Scientific
- 1996, Hiltl, M. and Nahme, H. "Macro- and micromechanical response of a shock-loaded glass-ceramic at different temperatures" AIP Conf. Proc. 370 647-650
- 1996, Hintz, G., Tkotz, R., Keusch, C., Negendanck, M., Staudigel, J., Christiansen, J., Hoffmann, D.H.H., Eisner, K., Lang, A., Schutte, K. and Bergmann, H.W. "XeCl-excimer laser MOPA chain for shock hardening" Proc. SPIE 3092 169-172
- 1996, Hirai, H. and Kondo, K.-I. "Differentiation of transition pathway - diamond transition and graphitization - under shock compression", in "High Pressure Science and Technology", ed. W.A. Trzeciakowski, pp. 934-936, publ. Singapore, World Scientific
- 1996, Hiroe, T., Matsuo, H., Fujiwara, K., Sakai, S., Abe, T., Yoshida, M. and Fujiwara, S. "Generation of cylindrical imploding shocks in solid using a high explosive" AIP Conf. Proc. 370 977-980

- 1996, Hixson, R.S., Johnson, J.N., Gray III, G.T. and Price, J.D. "Effects of interfacial bonding on spallation in metal-matrix composites" AIP Conf. Proc. 370 555-558
- 1996, Hokamoto, K., Tanaka, S., Fujita, M., Kagimoto, T., Chiba, A., Itoh, S. and Mashimo, T. "Hot dynamic compaction of hard-to-consolidate powders using converging underwater shock wave", in "Proc. 5th Int. Conf. on Technology of Plasticity", ed. T. Altan, pp. 911-915, publ.
- 1996, Holmes, N.C. "Shock wave measurements", in "High Pressure Science and Technology", ed. W.A. Trzeciakowski, pp. 979-982, publ. Singapore, World Scientific
- 1996, Holt, W.H., Mock Jr., W., Anderson, M.U., Holman, G.T. and Graham, R.A. "Effect of particle morphology on input and propagated stress wave profiles for two highly porous polytetrafluoroethylene powders" AIP Conf. Proc. 370 573-576
- 1996, Holzapfel, W.B. "Physics of solids under strong compression" Rep. Prog. Phys. 59 29-90
- 1996, Honda, M., Nishiguchi, A., Takabe, H., Azechi, H. and Mima, K. "Kinetic effects on the electron thermal transport in ignition target design" Phys. Plasmas 3 3420-3424
- 1996, Horie, Y., Tang, Z.P., Anderson, M.U., Graham, R.A. and Sheffield, S.A. "Discrete meso-element dynamic analysis of stress profiles in HMX explosive powder" AIP Conf. Proc. 370 401-404
- 1996, Hu, J.-B., Tan, H. and Jing, F.-Q. "Shock-induced phase transition of bromoform" AIP Conf. Proc. 370 247-250
- 1996, Huan, S., Lu, F.-Y. and Zhang, Z.-Y. "Observation of damage phenomena of a high-energy solid propellant under dynamic loading of impact", in "Proc. 16th Int. Symp. on Ballistics. Vol. 3", pp. 103-108, publ. Arlington, Virginia, American Defense Preparedness Association
- 1996, Huang, Y.K. "Notes on two general models for the inquiry of shock waves" AIP Conf. Proc. 370 267-270
- 1996, Huang, F.-L. and Wang, Z.-P. "Modelling fracture process in a ductile solid under intense impulsive loading using a model of the void growth with temperature dependency" Engng Fract. Mech. 55 657-674
- 1996, Huffman, A.R. and Reimold, W.U. "Experimental constraints on shock-induced microstructures in naturally deformed silicates" Tectonophysics 256 165-217
- 1996, Insepov, Z. and Yamada, I. "Molecular dynamics study of shock wave generation by cluster impact on solid targets" Nuclear Instrum. Methods Phys. Res. B 112 16-22
- 1996, Ivanov, V., Boehme, R., Schumacher, G. and Vikhrev, A. "Dynamic compaction of nanosized ceramic oxide powders" Mater. Sci. Forum 225-227 623-628

- 1996, Jackson, I. and Rigden, S.M. "Analysis of PVT data: Constraints in the thermoelastic properties of high-pressure minerals" *Phys. Earth Planet. Inter.* 96 85-112
- 1996, James, H.R. "An extension to the critical energy criterion used to predict shock initiation thresholds" *Propell. Explos. Pyrotech.* 21 8-13
- 1996, James, H.R., Haskins, P.J. and Cook, M.D. "Prompt shock initiation of cased explosives by projectile impact" *Propell. Explos. Pyrotech.* 21 251-257
- 1996, Jin, S. and Liu, J.G. "The effects of numerical viscosities. 1: Slowly moving shocks" *J. Comput. Phys.* 126 373-389
- 1996, Jogi, V. "Predictions for multiscale shock heating of a granular energetic material", MSc thesis, Univ. of Sri Venkateswara, India
- 1996, Johnson, D.E., Davies, F.W. and Hedemann, M.A. "Characterization and reduction of prompt electrical noise on the Saturn PRS X-ray simulator" *AIP Conf. Proc.* 370 1081-1084
- 1996, Johnson, G.R. and Stryk, R.A. "An automatic sliding interface algorithm for intense impulsive loading computations" *Commun. Numer. Meth. Engng* 12 885-896
- 1996, Johnson, J.N., Hixson, R.S., Tonks, D.L. and Zurek, A.K. "Rate-dependent spallation properties of tantalum" *AIP Conf. Proc.* 370 523-526
- 1996, Jones, A.P., Tielens, A.G.G.M. and Hollenbach, D.J. "Grain shattering in shocks: The interstellar grain size distribution" *Astrophys. J.* 469 740-764
- 1996, Joreau, P., French, B.M. and Doukhan, J.C. "A TEM investigation of shock metamorphism in quartz from the Sudbury impact structure (Canada)" *Earth Planet. Sci. Letts* 138 137-143
- 1996, Joreau, P., Leroux, H. and Doukhan, J.-C. "A TEM investigation of opaque phases in shocked chondrites" *Meteor. Planet. Sci.* 31 305-312
- 1996, Joshi, V.S., Thadhani, N.N., Graham, R.A. and Holman Jr., G.T. "Shock compression of quartz and aluminum powder mixtures" *AIP Conf. Proc.* 370 689-692
- 1996, Jourdan, G. and Houas, L. "Experimental investigation of Richtmyer-Meshkov instability before and after the reflected shock compression" *Phys. Fluids* 8 1353-1355
- 1996, Jyoti, G., Joshi, K.D., Gupta, S.C., Sikka, S.K., Dey, G.K. and Banerjee, S. "The orientation relations between the α and ω phases of shocked zirconium" *AIP Conf. Proc.* 370 227-230
- 1996, Kameda, M. and Matsumoto, Y. "Shock waves in a liquid containing small gas bubbles" *Phys. Fluids* 8 322-335
- 1996, Kameyama, N. and Sugiyama, M. "Analysis of acceleration waves in crystalline solids based on a continuum model incorporating microscopic thermal vibration" *Continuum Mech. Thermodyn.* 8 351-359

- 1996, Kanel, G.I., Razorenov, S.V., Bogatch, A., Utkin, A.V., Fortov, V.E. and Grady, D.E. "Spall fracture properties of aluminum and magnesium at high temperatures" *J. Appl. Phys.* 79 8310-8317
- 1996, Kanel, G.I., Razorenov, S.V. and Utkin, A.V. "Spallation in solids under shock-wave loading: Analysis of dynamic flow, methodology of measurements, and constitutive factors", in "High Pressure Shock Compression of Solids II: Dynamic Fracture and Fragmentation", ed. L. Davison, D.E. Grady and M. Shahinpoor, pp. 1-24, publ. New York, Springer-Verlag
- 1996, Kanel, G.I. and Utkin, A.V. "Estimation of the spall fracture kinetics from the free-surface velocity profiles" *AIP Conf. Proc.* 370 487-490
- 1996, Kanel, G.I., Razorenov, S.V., Utkin, A.V. and Grady, D.E. "The spall strength of metals at elevated temperatures" *AIP Conf. Proc.* 370 503-506
- 1996, Kecskes, L.J., Niiler, A., Kottke, T., Logan, K.V. and Villalobos, G.R. "Dynamic consolidation of combustion-synthesized alumina-titanium diboride composite ceramics" *J. Amer. Ceram. Soc.* 79 2687-2695
- 1996, Kedrinskii, V.K. "Bubbly cavitation in intense rarefaction waves and its effects", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shepherd and H.G. Hornung, pp. 107-119, publ. Singapore, World Scientific
- 1996, Kennedy, J.E., Cherry, C.R., Warnes, R.H. and Fischer, S.H. "Momentum transfer in indirect explosive drive", in "Proc. 22nd Int. Pyrotechnics Seminar", pp. 653-663, publ. Chicago, IIT Research Institute
- 1996, Khalid, F.A., Edmonds, D.V. and Goldthorpe, B.D. "A TEM study of deformation substructure in high strain rate and explosively shock-loaded polycrystalline iron" *J. Mater. Engng Perform.* 5 23-26
- 1996, Khantuleva, T.A. and Mescheryakov, Y.I. "Nonlocal effects in the high strain rate processes in solids", in "High Pressure Science and Technology", ed. W.A. Trzeciakowski, pp. 947-949, publ. Singapore, World Scientific
- 1996, Khasainov, B.A., Attetkov, A.V. and Borisov, A.A. "Shock-wave initiation of porous energetic materials and visco-plastic model of hot spots" *Chem. Phys. Rep.* 15 987-1062
- 1996, Khishchenko, K.V., Lomonosov, I.V. and Fortov, V.E. "Equations of state for organic compounds over wide range of densities and pressures" *AIP Conf. Proc.* 370 125-128
- 1996, Khishchenko, K.V., Lomonosov, I.V., Fortov, V.E. and Shlenskii, O.F. "Thermodynamic properties of plastics in a wide range of densities and temperatures" *Physics Doklady* 41 304-308
- 1996, Kiiski, A.A., Deribas, A.A. and Shterzer, A.A. "Study on explosive compaction of fine copper, iron and nickel powders" *AIP Conf. Proc.* 370 697-700
- 1996, Kiiski, A.A., Ruuskanen, P.R. and Rubin, J.B. "Wear-resistant coatings produced by shock-wave compaction of powders" *Metall. Mater. Trans. A* 27 2297-2304

- 1996, Kikuchi, M., Kawamata, S., Okuda, K., Fukuoka, K. and Syono, Y. "Evaluation of shock-compacted $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ by X-ray diffraction and magnetic torque measurements" AIP Conf. Proc. 370 741-744
- 1996, Kim, D.-S. and Chiem, C.-Y. "Study of the initial delamination in a laminated orthotropic composite induced by a flyer plate impact", in "Proc. 2nd Int. Symp. on Impact Engineering", ed. C.-Y. Chiem, L.L. Wang and S. Tanimura, pp. 195-200, publ. Beijing, Chinese Journal of Mechanics Press
- 1996, King, T.R. and Shively, J.H. "Nonlinear Hugoniots" AIP Conf. Proc. 370 47-50
- 1996, Kiselev, S.P. and Fomin, V.M. "Rarefaction shock wave in a porous material" J. Appl. Mech. Tech. Phys. 37 23-29
- 1996, Kiselev, V.P. "Effect of the lower surface on a cloud of particles moving behind a shock wave" J. Appl. Mech. Tech. Phys. 37 492-493
- 1996, Kitagawa, K., Yasue, T., Watanabe, S., Jyounouchi, T. and Yasuhara, M. "Analysis of shock wave interaction with porous elastic material" JSME Int. J. B 39 721-730
- 1996, Kleine, H., Diaconescu, G. and Lee, J.H.S. "Blast-wave propagation in foam", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1351-1356, publ. Singapore, World Scientific
- 1996, Kleven, S. "Ultrasonic inspection of explosion welded titanium clad plate" Mater. Eval. 54 557-560
- 1996, Kodama, T., Takayama, K. and Nagayasu, N. "The dynamics of two air bubbles loaded by an underwater shock wave" J. Appl. Phys. 80 5587-5592
- 1996, Komatsu, T., Nomura, M., Kakudata, Y. and Fujiwara, S. "Synthesis and characterization of a shock-synthesized cubic B-C-N solid solution of composition $\text{BC}_{2.5}\text{N}$ " J. Mater. Chem. 6 1799-1803
- 1996, Kondo, K.-I., Kukino, S. and Hirai, H. "Shock compaction of nano-sized diamond powder, as examined by microstructural analysis" J. Amer. Ceram. Soc. 79 97-101
- 1996, Kondo, K., Hironaka, Y., Ito, H., Sugiura, H., Ozaki, S., Takeba, A. and Katayama, M. "A trial of the three-stage light gas gun with a preheating stage" AIP Conf. Proc. 370 1193-1196
- 1996, Kondo, K.-I. "The shock compression and rapid quenching method for exploring new phases of carbon" Diamond Related Mater. 5 13-18
- 1996, Kononov, A.V. "Analysis of the Dyakov characteristic equation in the theory of shock wave stability" Z. angew. Math. Phys. 47 631-635
- 1996, Korneyev, A.E., Epanchintsev, O.G., Yaropolova, E.I. and Dityatyev, A.A. "Structure and morphology of transformation products in shock-loaded fullerites" Mol. Mater. 7 289-292

- 1996, Kostyuchenko, V.N. and Sultanov, D.D. "Effect of the depth of underground nuclear explosions in salt deposits on the efficiency of emission of seismic waves" Phys. Doklady 41 501-503
- 1996, Kozlov, E.A., Litvinov, B.V., Timofeeva, L.F., Kurilo, V.S. and Orlov, V.K. "Structural changes, phase transformations, and spalling in a sphere of delta-plutonium-gallium alloy in spherical stress waves" Phys. Metals Metallog. 81 679-691
- 1996, Kozlov, E.A., Elkin, V.M. and Bychkov, I.V. "A thermodynamically complete solid-phase equation of state and phase transformations of zirconium in stress waves" Phys. Metals Metallog. 82 337-342
- 1996, Kozlov, E.A., Litvinov, B.V., Abakshin, E.V., Kovalenko, G.V., Orlov, V.K., Teplinskaya, V.M., Kislyakov, S.S., Kruglov, A.A., Dobromyslov, A.V., Taluts, N.I., Kazantseva, N.V. and Taluts, G.G. "Structural and phase transitions of zirconium and its alloys with niobium in spherical stress waves", in "High Pressure Science and Technology", ed. W.A. Trzeciakowski, pp. 950-952, publ. Singapore, World Scientific
- 1996, Kozlov, E.A., Zhugin, Y.N., Litvinov, B.V., Kozlovsky, V.N., Abakshin, E.V., Badjukov, D.D., Ivanova, L.A., Letnikov, F.A., Anfilogov, V.N., Belogub, E.V. and Kotljarov, V.A. "Physical and chemical transformations of serpentine in spherical stress waves", in "High Pressure Science and Technology", ed. W.A. Trzeciakowski, pp. 960-962, publ. Singapore, World Scientific
- 1996, Kozlov, E.A., Elkin, V.M., Litvinov, B.V., Teplov, V.A. and Degtyarev, M.V. "Features of melting and boiling 12X18H10T austenitic steel in stress spherical waves" Phys. Doklady 41 591-594
- 1996, Kraiko, A.N. "Unlimited cumulation under one-dimensional unsteady compression of an ideal gas" J. Appl. Math. Mech. 60 979-986
- 1996, Krehl, P. and Engemann, S. "August Toepler: The first who visualized shock waves" Shock Waves 5 1-18
- 1996, Krier, H., Burton, R.L., Pirman, S.R. and Spalding, M.J. "Shock initiation of crystalline boron in oxygen and fluorine compounds" J. Propulsion Power 12 672-679
- 1996, Krivosheev, S.I., Morozov, N.F., Petrov, Y.V. and Shneerson, G.A. "Problems of fracture of brittle bodies under pulse loading" Mater. Sci. 32 286-295
- 1996, Krylov, A., Sorek, S., Levy, A. and Ben-Dor, G. "Simple waves in saturated porous media. 1: The isothermal case" JSME Int. J. B 39 294-298
- 1996, Kubota, S., Nagano, S., Fujita, M. and Itoh, S. "Shock consolidation of powders by utilizing a converged underwater shock-wave assembly", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1431-1436, publ. Singapore, World Scientific

- 1996, Kubota, S., Fujita, M. and Itoh, S. "Shock compaction of magnet powder using underwater shock wave", in "Structures under Extreme Loading Conditions. PVP 325", ed. Y.S. Shin and J.A. Zukas, pp. 17-22, publ. New York, American Society of Mechanical Engineers
- 1996, Kulikovskii, A.G. and Sveshnikova, Y.I. "The existence and uniqueness of self-similar solutions involving Jouguet points on the shock adiabatic curve" J. Appl. Math. Mech. 60 61-65
- 1996, Kuznetsov, N.M. "Elementary processes and physicochemical relaxation in shock waves" Khim. Fiz. 15 115-125
- 1996, Laabs, G.W., Funk, D.J. and Asay, B.W. "Novel light gas gun with minimal timing jitter" Rev. Sci. Instrum. 67 195-197
- 1996, Labaste, J.L., Doucet, M. and Joubert, P. "Shocks induced by laser driven flyer plates. 1: Experiments" AIP Conf. Proc. 370 1213-1215
- 1996, Lagutov, Y.P., Sharov, Y.L. and Gvozdeva, L.G. "Experimental investigation of interaction of shock-wave with closed cellular compressible foam", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1345-1350, publ. Singapore, World Scientific
- 1996, Lalle, P. and Courchinoux, R. "Melting on the Hugoniot" AIP Conf. Proc. 370 207-210
- 1996, Landen, O.L., Keane, C.J., Hammel, B.A., Levedahl, W.K., Amendt, P.A., Colvin, J.D., Cable, M.D., Cook, R., Dittrich, T.R., Haan, S.W., Hatchett, S.P., Hay, R.G., Lerche, R.A., McEachern, R., Murphy, T.J., Nelson, M.B., Suter, L. and Wallace, R.J. "Effects of variable X-ray preheat shielding in indirectly driven implosions" Phys. Plasmas 3 2094-2097
- 1996, Langenhorst, F. and Clymer, A.K. "Characteristics of shocked quartz in late Eocene impact ejecta from Massignano (Ancona, Italy): Clues to shock conditions and source crater" Geology 24 487-490
- 1996, LaSalvia, J.C., Chen, Y.J., Meyers, M.A., Nesterenko, V.F., Bondar, M.P. and Lukyanov, Y.L. "High strain, high strain rate response of annealed and shocked tantalum", in "Tantalum", ed. E. Chen, A. Crowson, E. Lavernia, W. Ebihara and P. Kumar, pp. 139-144, publ. Warrendale, Pennsylvania, Minerals, Metals and Materials Society
- 1996, Lassila, D.H., LeBlanc, M.M. and Meyers, M.A. "Effects of shock prestrain on the mechanical behavior of tantalum and tantalum-tungsten alloys", in "Tantalum", ed. E. Chen, A. Crowson, E. Lavernia, W. Ebihara and P. Kumar, pp. 185-190, publ. Warrendale, Pennsylvania, Minerals, Metals and Materials Society
- 1996, Lawton, B. and Klingenberg, G. "Transient Temperature in Engineering and Science", publ. Oxford, Oxford University Press

- 1996, Lebedev, M., Dyabilin, K., Fortov, V., Smirnov, V., Grabovskij, E., Danilenko, K., Persiantzev, I. and Zakharov, A. "Strong shock wave excitation by Z-pinch generated soft X-rays", in "High Pressure Science and Technology", ed. W.A. Trzeciakowski, pp. 994-996, publ. Singapore, World Scientific
- 1996, Lebedev, A.I., Nizovtsev, P.N., Raevskii, V.A. and Solovev, V.P. "Rayleigh-Taylor instability in firm substances" Phys. Doklady 41 328-330
- 1996, Lee, I.-Y.S., Hare, D.E., Hill, J.R., Franken, J., Suzuki, H. and Dlott, D.D. "Ultrafast spectroscopy of the first nanosecond" AIP Conf. Proc. 370 905-908
- 1996, Lee, J.-H., Thadhani, N.N. and Grebe, H.A. "Reaction sintering of shock-compressed Ti + C powder mixtures" Metall. Mater. Trans. A 27 1749-1759
- 1996, Lee, I., Finnegan, S.A., Lindfors, A.J. and Woody, D.L. "Comparison of thermal and shock response of pyrotechnic mixtures of metal, metal oxide, oxidizer, and fluorine compounds", in "Proc. 33rd JANNAF Combustion Subcommittee Meeting. Vol. 2 (CPIA publ. 653)", ed. R.S. Fry and M.T. Gannaway, pp. 485-494, publ. Columbia, Maryland, Chemical Propulsion Information Agency
- 1996, Lee, R.J. and Forbes, J.W. "PVDF transducer response from an electrical discharge in an aluminized solid" AIP Conf. Proc. 370 1089-1092
- 1996, Lev, L.C. and Argon, A.S. "Spallation of thin elastic coatings from elastic substrates by laser induced pressure pulses" J. Appl. Phys. 80 529-542
- 1996, LeVeque, R.J. and Shyue, K.M. "Two-dimensional front tracking based on high-resolution wave propagation methods" J. Comput. Phys. 123 354-368
- 1996, Levy, A., Ben-Dor, G. and Sorek, S. "Numerical investigation of the propagation of shock waves in rigid porous materials: Development of the computer code and comparison with experimental results" J. Fluid Mech. 324 163-179
- 1996, Levy, A., Sorek, S., Ben-Dor, G. and Skews, B.W. "Experimental and numerical investigation of the head-on collision of planar shock waves with rigid porous materials", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1357-1362, publ. Singapore, World Scientific
- 1996, Li, X.-Z., Nakano, M., Yamauchi, Y., Kishida, K. and Tanaka, K.A. "Damage of glass subjected to ultra-short pulsed laser shock wave", in "Constitutive Relation in High/Very High Strain Rates", ed. K. Kawata and J. Shioiri, pp. 209-216, publ. Tokyo, Springer-Verlag
- 1996, Li, Z.-Y., Zhu, W.-H., Cheng, J.-Y. and Zhou, G.-Q. "Measurements of laser-induced shock waves in carbon epoxy composites" J. Mater. Sci. Letts 15 2122-2123
- 1996, Li, X.-Z., Nakano, M., Yamauchi, Y., Kishida, K. and Tanaka, K.A. "Fracture process of glass revealed in laser shock wave experiments", in "Proc. 2nd Int. Symp. on Impact Engineering", ed. C.-Y. Chiem, L.L. Wang and S. Tanimura, pp. 295-300, publ. Beijing, Chinese Journal of Mechanics Press

- 1996, Li, Z.-Y., Zhu, W.-H., Cheng, J., Zhou, G.-Q. and Guo, D. "Experimental study on attenuation of high power laser-induced shock waves in copper" Chinese Sci. Bull. 41 1694-1696
- 1996, Lin, E.E., Medvedin, V.A. and Novikov, S.A. "Compaction of ultradisperse diamonds by weak shock loading", in "High Pressure Science and Technology", ed. W.A. Trzeciakowski, pp. 937-938, publ. Singapore, World Scientific
- 1996, Lindfors, A.J. and Miller, P.J. "Detonation like reactions in a thermite-Teflon mixture", in "Proc. 1996 JANNAF Propulsion Systems Hazards Subcommittee Meeting. Vol. 1. (CPIA Publ. 645)", ed. A.H. Watson, pp. 145-152, publ. Columbia, Maryland, Chemical Propulsion Information Agency
- 1996, Lindfors, A.J., Finnegan, S.A. and Boteler, J.M. "A study of shock-induced reactivity in a porous pyrotechnic powder mixture" AIP Conf. Proc. 370 749-752
- 1996, Ling, P., Sakata, J. and Wight, C.A. "Detonation chemistry of glycidyl azide polymer" Mater. Res. Soc. Symp. Proc. 418 363-371
- 1996, Ling, Z., Gu, Z.-Y. and Shen, L.-T. "The extension speed of microcracks occurred in ZL101Al/SiC_p composite under impact loading", in "Proc. 2nd Int. Symp. on Impact Engineering", ed. C.-Y. Chiem, L.L. Wang and S. Tanimura, pp. 226-230, publ. Beijing, Chinese Journal of Mechanics Press
- 1996, Litvinov, B.V., Zeldovich, V.I., Purygin, N.P., Khomskaya, I.V., Buzanov, V.I., Kheifetz, A.E., Rinkevich, O.S., Frolova, N.Y. and Sobyanina, G.A. "Non-one-dimensional and quasi-spherical loading of metal balls by shock-waves having up to 3 Mbar pressure, with the investigation of the preserved samples" AIP Conf. Proc. 370 981-983
- 1996, Litz Jr., C.J. "Explosive shock loading of flat plates: Tests, analysis and computer modeling", in "Structures under Extreme Loading Conditions. PVP 325", ed. Y.S. Shin and J.A. Zukas, pp. 23-28, publ. New York, American Society of Mechanical Engineers
- 1996, Liu, C. and Ahrens, T.J. "Stress wave attenuation in shock damaged rock" AIP Conf. Proc. 370 589-592
- 1996, Liu, G.R., Lam, K.Y. and Chan, E.S. "Stress waves in composite laminated excited by transverse plane shock waves" Shock Vibration 3 419-433
- 1996, Liu, Z.-Q., Zhao, H.-Y., Lu, Y.-S., Li, D.-X., Li, X. and Zhang, S.-B. "Crystallization of amorphous alloy Fe₇₅B₁₂Si₉ induced by shock wave (in Chinese)" Acta Metall. Sinica 32 862-868
- 1996, Liu, D., Fan, Y., Xu, J. and Wang, T. "Experimental studies on the sensitivity of Composition B to shock", in "Theory and Practice of Energetic Materials", ed. C. Feng, Y. Ou and Q. Zeng, pp. 41-44, publ. Beijing, Beijing Institute of Technology Press

- 1996, Liu, J.J., Lu, G.X., He, H.L., Tan, H., Xu, T. and Xu, K. "Studies on photocatalytic activity of zinc ferrite catalysts synthesized by shock waves" Mater. Res. Bull. 31 1049-1056
- 1996, Liu, F.-S., Chen, X.-M., Chen, P.-S., Chen, J.-X., Tan, H., Gou, Q.-Q. and Jing, F.-Q. "Equation of state and conductivity of shocked heavy water" AIP Conf. Proc. 370 57-60
- 1996, Lomonosov, I.V. and Fortov, V.E. "Look into the liquid phase of metal from the equation of state: Is there an agreement between shock-wave and isobaric-expansion data?" AIP Conf. Proc. 370 51-54
- 1996, Long, X., Jiang, X., He, B. and Wu, X. "The detonation parameters of high density explosive predicted with the VLWR EOS", in "Theory and Practice of Energetic Materials", ed. C. Feng, Y. Ou and Q. Zeng, pp. 67-74, publ. Beijing, Beijing Institute of Technology Press
- 1996, Long, Y., Tang, D., Ji, M. and Li, Z. "Numerical simulation for blasting seismic wave to propagate in tuff medium", in "Theory and Practice of Energetic Materials", ed. C. Feng, Y. Ou and Q. Zeng, pp. 452-460, publ. Beijing, Beijing Institute of Technology Press
- 1996, Löwer, T. and Sigel, R. "Uniform shock waves driven by thermal radiation from laser-heated cavities" AIP Conf. Proc. 370 1261-1264
- 1996, Lu, F.-Y., Xue, H.-L., Zeng, X.-W. and Zhang, Z.-Y. "Initiation response and its mechanism investigation of solid explosive under CCSL", in "Proc. 16th Int. Symp. on Ballistics. Vol. 3", pp. 69-77, publ. Arlington, Virginia, American Defense Preparedness Association
- 1996, Lu, F.-Y., Xu, M.-L., Wang, Z.-B., Jiang, X.-Q., Zhang, Z.-Y. and Han, W. "Investigation on characteristics of dynamic response of new concrete", in "Proc. 2nd Int. Symp. on Impact Engineering", ed. C.-Y. Chiem, L.L. Wang and S. Tanimura, pp. 232-236, publ. Beijing, Chinese Journal of Mechanics Press
- 1996, Lubyatinsky, S.N. and Loboiko, B.G. "Reaction zone measurements in detonating aluminized explosives" AIP Conf. Proc. 370 779-782
- 1996, Lucht, R.A. and Charest, J.A. "Calibration and use of a rugged new piezoresistive pressure transducer" AIP Conf. Proc. 370 1041-1044
- 1996, Lyapin, A.G. and Brazhkin, V.V. "Pressure-induced lattice instability and solid-state amorphization" Phys. Rev. B 54 12036-12048
- 1996, Machcha, A.R. and Nemat-Nasser, S. "Effects of geometry in pressure-shear and normal plate impact recovery experiments: Three-dimensional finite-element simulation and experimental observation" J. Appl. Phys. 80 3267-3274
- 1996, Makris, A., Frost, D.L., Nerenberg, J. and Lee, J.H.S. "Attenuation of a blast wave with a cellular material", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1387-1391, publ. Singapore, World Scientific

- 1996, Maksimov, A.M., Radkevich, E.V. and Edelman, I.Y. "Nonlinear triple-wave interactions in saturated porous media" J. Appl. Mech. Tech. Phys. 37 101-108
- 1996, Mamalis, A.G., Szalay, A., Pantelis, D. and Pantazopoulos, G. "Net shape manufacturing of silver-sheathed high-T_c superconductive ceramic (Y-Ba-K-Cu-O) strip by explosive compaction/cladding and rolling" J. Mater. Process. Technol. 57 112-120
- 1996, Mamalis, A.G., Szalay, A., Pantelis, D.I., Pantazopoulos, G., Kotsis, I. and Enisz, M. "Fabrication of multi-layered steel/superconductive ceramic (Y-Ba-K-Cu-O)/silver rods by explosive powder compaction and extrusion" J. Mater. Process. Technol. 57 155-163
- 1996, Mamalis, A.G., Vaxevanidis, N.M. and Szalay, A. "Cold rolling of multilayer explosively cladded strips" Int. J. Mach. Tools Manuf. 36 1033-1044
- 1996, Mandell, D.A. and Wingate, C.A. "Numerical simulations of glass impacts using smooth particle hydrodynamics" AIP Conf. Proc. 370 563-566
- 1996, Markevich, M.I., Podoltsev, A.S., Piskunov, F.A. and Yanushkevich, V.A. "The rate of the laser synthesis in the active water-containing medium during the passage of a shock wave" Phys. Chem. Mater. Treat. 30 203-205
- 1996, Mashimo, T., Tashiro, S., Hirosawa, S. and Makita, K. "Fully dense Sm₂Fe₁₇N_x permanent magnets prepared by shock compression" J. Appl. Phys. 80 356-361
- 1996, Mashimo, T. and Uchino, M. "Shock compression behavior of boron carbide" AIP Conf. Proc. 370 531-533
- 1996, Mastilovic, S., Vujosevic, M. and Karjcinovic, D. "Localization in disordered brittle media: Lattice models", in "Advances in Failure Mechanisms in Brittle Materials. AMD 219", ed. R.J. Clifton and H.D. Espinosa, pp. 171-184, publ. New York, American Society of Mechanical Engineers
- 1996, Matsumoto, Y. and Kameda, M. "Propagation of shock waves in dilute bubbly liquids: Governing equations, Hugoniot relations, and effect of slippage between two phases" JSME Int. J. B 39 264-272
- 1996, Maw, J.R., Whitworth, N.J. and Holland, R.B. "Multiple shock compression of polyurethane and syntactic foams" AIP Conf. Proc. 370 133-136
- 1996, Maw, J.R. and Giles, A.R. "Numerical modelling of spallation in 2D hydrodynamic codes" AIP Conf. Proc. 370 295-298
- 1996, Mayo, M.J. "Processing of nanocrystalline ceramics from ultrafine particles" Int. Mater. Rev. 41 85-115
- 1996, Mazel, P., Saurel, R., Loraud, J.C. and Butler, P.B. "A numerical study of weak shock wave propagation in a reactive bubbly liquid" Shock Waves 6 287-300
- 1996, Meibom, A. and Balslev, I. "Composite power laws in shock fragmentation" Phys. Rev. Letts 76 2492-2494

- 1996, Mendes, R., Campos, J., Ribeiro, J., Prinse, W.C., van Rooijen, M.P. and van der Steen, A.C. "Modelling the exploding metal foil", in "Proc. 22nd Int. Pyrotechnics Seminar", pp. 665-672, publ. Chicago, IIT Research Institute
- 1996, Menikoff, R. "Numerical anomalies mimicking physical effects" AIP Conf. Proc. 370 253-258
- 1996, Merzhievsky, L.A. and Tyagelsky, A.V. "Calculation of impact compression of solid and porous ceramics", in "Proc. 2nd Int. Symp. on Impact Engineering", ed. C.-Y. Chiem, L.L. Wang and S. Tanimura, pp. 336-341, publ. Beijing, Chinese Journal of Mechanics Press
- 1996, Merzhievsky, L.A. and Tyagelsky, A.V. "Modelling of shock compression of porous media" AIP Conf. Proc. 370 303-306
- 1996, Meshcheryakov, Y.I. "Kinetics of microstructure and strain rate dependence of materials" AIP Conf. Proc. 370 623-625
- 1996, Meyer-ter-Vehn, J., Oparin, A. and Aoki, T. "Options for laser compression of matter to study dense plasma phases at low entropy, including metallization of hydrogen", in "Proc. 12th Int. Conf. on Laser Interaction and Related Plasma Phenomena", pp. 347-356, publ. New York, American Institute of Physics
- 1996, Mikhailov, A.I. and Osipov, R.S. "Interface instabilities between shock-compressed metal layers" AIP Conf. Proc. 370 985-988
- 1996, Miller, P.J. and Sutherland, G.T. "Reaction rate modeling of PBXN-110" AIP Conf. Proc. 370 413-416
- 1996, Miller, G.H. and Puckett, E.G. "A high-order Godunov method for multiple condensed phases" J. Comput. Phys. 128 134-164
- 1996, Millett, J.C.F., Bourne, N.K. and Rosenberg, Z. "On the analysis of transverse gauge data from shock loading experiments" J. Phys. D: Appl. Phys. 29 2466-2472
- 1996, Millett, J.C.F., Bourne, N.K. and Rosenberg, Z. "Shear stress measurements in copper, iron and mild steel under shock loading conditions" AIP Conf. Proc. 370 515-518
- 1996, Minich, R.W. "Optimal velocity amplification in a system of colliding plates" AIP Conf. Proc. 370 1205-1208
- 1996, Miura, Y. and Okamoto, M. "Compositional changes of the Moon and Earth by impacts", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1473-1478, publ. Singapore, World Scientific
- 1996, Molitvin, A.M., Borin, I.P. and Bosamykin, V.S. "Time dependence of specific fracture energy of titanium, brasses and bronzes on pulse irradiation" Russ. Metall. (5) 64-67
- 1996, Molitvin, A.M., Borin, I.P. and Bosamykin, V.S. "Some geometrical effects in thermomechanical failure of metallic specimens under pulsed radiation" J. Appl. Mech. Tech. Phys. 37 751-755

- 1996, Molitvin, A.M., Borin, I.P. and Bosamykin, V.S. "Durability of copper, nickel, titanium, brass, and bronze under impulsive irradiation" J. Appl. Mech. Tech. Phys. 37 871-875
- 1996, Montgomery, S.T., Graham, R.A. and Anderson, M.U. "Return to the shorted and shunted quartz gauge problem: Analysis with the SUBWAY code" AIP Conf. Proc. 370 1025-1028
- 1996, Montgomery, D.S., Moody, J.D., Baldis, H.A., Afeyan, B.B., Berger, R.L., Estabrook, K.G., Lasinski, B.F. and Williams, E.A. "Effects of laser beam smoothing on stimulated Raman scattering in exploding foil plasmas" Phys. Plasmas 3 1728-1736
- 1996, Mori, Y. and Nagayama, K. "Precision optical observation system for shock waves in condensed media in 1 GPa pressure region", in "Proc. 2nd Symp. on High Speed Photography and Photonics", ed. K. Takayama and E. Sato, pp. 159-163, publ. Tohoku University, Sendai,
- 1996, Morosin, B., Venturini, E.L., Holman, G.T., Newcomer, P.N., Dunn, R.G. and Graham, R.A. "Shock-induced defects in HgO" AIP Conf. Proc. 370 733-736
- 1996, Mortimer, B.J.P. and Skews, B.W. "An electromagnetic liquid shock wave generator for the production of a pulsed water jet" J. Acoust. Soc. Amer. 100 3548-3553
- 1996, Moshe, E., Dekel, E., Henis, Z. and Eliezer, S. "Development of an optically recording velocity interferometer system for laser induced shock waves measurements" Appl. Phys. Letts 69 1379-1381
- 1996, Moss, W.C., Clarke, D.B., White, J.W. and Young, D.A. "Sonoluminescence, shock waves, and micro-thermonuclear fusion" AIP Conf. Proc. 370 453-458
- 1996, Moulard, H. and Bauer, F. "Lagrangian analysis of the PVDF shock sensor" AIP Conf. Proc. 370 1065-1068
- 1996, Mulford, R.N. and Alcon, R.R. "Shock initiation of PBX-9502 at elevated temperatures" AIP Conf. Proc. 370 855-858
- 1996, Murakami, S., Umeda, T., Takizawa, H. and Itoh, M. "Application of damage mechanics to the analysis of spall damage" JSME Int. J. A 39 375-381, 654
- 1996, Murata, K., Takahashi, K., Kato, Y. and Murai, K. "Development of pressure gauge using PVDF copolymer for underwater shock measurement" AIP Conf. Proc. 370 1093-1096
- 1996, Murphy, M.J., Simpson, R.L., Urtiew, P.A., Souers, P.C., Garcia, F. and Garza, R.G. "Reactive flow model development for PBXW-126 using modern nonlinear optimization methods" AIP Conf. Proc. 370 417-420

- 1996, Murr, L.E., Pappu, S., Kennedy, C., Niou, C.S. and Meyers, M.A. "Tantalum microstructures for high strain rate deformation: Shock loading, shaped charges, and explosively formed penetrators", in "Tantalum", ed. E. Chen, A. Crowson, E. Lavernia, W. Ebihara and P. Kumar, pp. 145-155, publ. Warrendale, Pennsylvania, Minerals, Metals and Materials Society
- 1996, Murr, L.E., Rivas, J.M., Ferreyra, E. and Sanchez, J.C. "A comparison of deformation twins and deformation-induced microbands in copper" Microstruct. Sci. 24 121-132
- 1996, Murr, L.E., Ferreyra, E., Pappu, S., Garcia, E.P., Sanchez, J.C., Huang, W., Rivas, J.M., Kennedy, C., Ayala, A. and Niou, C.S. "Novel deformation processes and microstructures involving ballistic penetrator formation and hypervelocity impact and penetration phenomena" Mater. Charact. 37 245-276
- 1996, Murray, N.H. "The response of alumina ceramics to plate impact loading", PhD thesis, Univ. of Cambridge
- 1996, Murray, N.H., Bourne, N.K. and Rosenberg, Z. "Precursor decay in several aluminas" AIP Conf. Proc. 370 491-494
- 1996, Mustafaev, R.A. and Ragimov, R.S. "Equation of state for esters over a wide range of temperatures and pressures" Russ. J. Phys. Chem. 70 1095-1099
- 1996, Myagkov, N.N. "Optimum profiling of weak shock pulses" Acoust. Phys. 42 71-75
- 1996, Nabatov, S.S., Kulbachevskii, A.V. and Lebedev, A.V. "Numerical analysis of semiconductor thermocouple operation in recording exothermic processes in a recovery capsule" Combust. Explos. Shock Waves 32 460-465
- 1996, Nagayama, K. "Statistical mechanical interpretation of new thermal variables of Grüneisen equation of state for solids" AIP Conf. Proc. 370 35-38
- 1996, Nagayama, K. "Simple method of calculating Grüneisen parameter and cold potential energy function for solids based on the Slater, D-M, and free volume theories" AIP Conf. Proc. 370 39-42
- 1996, Nahme, H. and Hiltl, M. "Dynamic properties and microstructural behaviour of Armco iron shock-loaded at high temperatures", in "Structures under Shock and Impact IV", ed. N. Jones, C.A. Brebbia and A.J. Watson, pp. 427-437, publ. Southampton, Computational Mechanics Publications
- 1996, Nakai, S. and Takabe, H. "Principles of inertial confinement fusion: Physics of implosion and the concept of inertial fusion energy" Rep. Prog. Phys. 59 1071-1131
- 1996, Nellis, W.J., Weir, S.T. and Mitchell, A.C. "Metallization and electrical conductivity of hydrogen in Jupiter" Science 273 936-938

- 1996, Nellis, W.J., Holmes, N.C., Ross, M., Weir, S.T. and Mitchell, A.C. "Electrical conductivities and shock temperatures of fluid hydrogen up to 200 GPa", in "High Pressure Science and Technology", ed. W.A. Trzeciakowski, pp. 521-523, publ. Singapore, World Scientific
- 1996, Nesterenko, V.F., Meyers, M.A., Chen, H.C. and LaSalvia, J.C. "Chemical reactions in controlled high-strain-rate shear bands" AIP Conf. Proc. 370 713-716
- 1996, Nesterenko, V.F., Meyers, M.A. and Chen, H.C. "Shear localization in high-strain-rate deformation of granular alumina" Acta mater. 44 2017-2026
- 1996, Ng, A. "Plasma physics research with shock waves", in "High Pressure Science and Technology", ed. W.A. Trzeciakowski, pp. 974-978, publ. Singapore, World Scientific
- 1996, Nieh, T.G., Luo, P., Nellis, W., Lesuer, D. and Benson, D. "Dynamic compaction of aluminum nanocrystals" Acta mater. 44 3781-3788
- 1996, Nigmatulin, R.I., Gubaidullin, A.A., Akhmetov, A.T., Bekishev, S.A. and Mikhailov, E.N. "Experimental and theoretical modeling of anomalous amplification of shock waves in high-viscosity liquids" Phys. Doklady 41 32-36
- 1996, Noguchi, Y., Kusaba, K., Fukuoka, K. and Syono, Y. "Shock-induced phase transition of MnO around 90 GPa" Geophys. Res. Letts 23 1469-1472
- 1996, Obenschain, S.P., Bodner, S.E., Colombant, D., Gerber, K., Lehmberg, R.H., McLean, E.A., Mostovych, A.N., Pronko, M.S., Pawley, C.J., Schmitt, A.J., Sethian, J.D., Serlin, V., Stamper, J.A., Sullivan, C.A., Dahlburg, J.P., Gardner, J.H., Chan, Y., Deniz, A.V., Hardgrove, J., Lehecka, T. and Klapisch, M. "The Nike KrF laser facility: Performance and initial target experiments" Phys. Plasmas 3 2098-2107
- 1996, Odintsov, V.A. and Shkalyabin, I.O. "Fragment spectra of cylinders fractured by an impact of a tube from inside" Combust. Explos. Shock Waves 32 466-470
- 1996, Odintsov, V.V. and Pepekin, N.I. "Comparative brisant characteristics of some classes of industrial emulsion explosives" Propell. Explos. Pyrotech. 21 295-302
- 1996, Ogorodnikov, V.A. and Ivanov, A.G. "On the nature of scale effect in high-rate fracturing" AIP Conf. Proc. 370 615-618
- 1996, Oh, K.-H., Kim, H.-J. and Lee, H.-W. "Behavior of Grüneisen γ in the multiple shock region" AIP Conf. Proc. 370 43-46
- 1996, Okhotin, V.S. and Razumaichenko, L.A. "Temperature dependence of the compressibility of liquid benzene as determined from ultrasound measurements" Russ. J. Phys. Chem. 70 2127-2128
- 1996, Oleinik, G.S., Danilenko, N.V. and Dobrovolsky, V.D. "Structure changes during the annealing of aluminium nitride deformed in shock waves (in Russian)" Metallofiz. Noveish. Tekhnol. 18(9) 63-67

- 1996, Olivas, J.D., Olson, D.L. and Mishra, B. "Estimation of bond integrity of solid-state bonded dissimilar metals", in "Processing and Fabrication of Advanced Materials V", ed. T.S. Srivatsan and J.J. Moore, pp. 313-333, publ. Warrendale, PA, Minerals, Metals and Materials Society
- 1996, Omote, K. and Ohigashi, H. "Temperature dependence of shear piezoelectric properties of poly(vinylidene fluoride) studied by piezoelectric resonance method" *Jpn. J. Appl. Phys.* 35 1818-1823
- 1996, Östmark, H. "Shock induced sub-detonation chemical reactions in TATB" *AIP Conf. Proc.* 370 871-874
- 1996, Pai, V.V., Yakovlev, I.V. and Kuzmin, G.E. "Investigation of shock compression of composite porous media by a nondisturbing electromagnetic technique" *Combust. Explos. Shock Waves* 32 225-229
- 1996, Pangilinan, G.I., Constantinou, C.P., Gruzdkov, Y.A. and Gupta, Y.M. "Investigation of shock-induced chemical decomposition of sensitized nitromethane through time-resolved Raman spectroscopy" *Mater. Res. Soc. Symp. Proc.* 418 349-355
- 1996, Pappu, S., Kennedy, C., Murr, L.E. and Meyers, M.A. "Deformation twins in a shock loaded Ta-2.5% W precursor plate and a recovered, Ta-2.5% explosively formed penetrator" *Scripta mater.* 35 959-965
- 1996, Patel, N.H. and Ranga Rao, M.P. "Imploding shocks in a non-ideal medium" *J. Engng Math.* 30 683-692
- 1996, Pavlovskii, A.I., Tatsenko, O.M., Platonov, V.V., Volkov, A.A. and Markevtshev, I.M. "Investigation of ruby luminescence R-line by isentropic megabar pressure" *AIP Conf. Proc.* 370 897-900
- 1996, Pécault, S. "Tolérance au choc de structures sandwichs et effets d'échelle", PhD thesis, Univ. of ENSAM, Bordeaux
- 1996, Pershin, S.V., Tsaplin, D.N., Dremin, A.N. and Ananin, A.V. "The effect of size and structure of carbon particles on the threshold pressure of diamond formation behind a detonation wave" *Chem. Phys. Rep.* 15 913-921
- 1996, Peyre, P., Fabbro, R., Merrien, P. and Lieurade, H.P. "Laser shock processing of aluminium alloys: Application to high cycle fatigue behaviour" *Mater. Sci. Engng A* 210 102-113
- 1996, Peyre, P., Fabbro, R., Berthe, L., Scherpereel, X. and Le Corne, A. "Laser shock processing with small impacts" *Proc. SPIE* 2789 125-132
- 1996, Phillips, L. "Shock compression of a 2D model of DT embedded in a plastic foam" *AIP Conf. Proc.* 370 459-462
- 1996, Piechór, K. "Travelling wave solutions for model equations of van der Waals fluids" *Arch. Mech.* 48 675-709

- 1996, Plaksin, I.Y., Shutov, V.I., Gerasimov, V.M., Gerasimenko, V.F., Morozov, V.G., Karpenko, I.I. and Sokolov, S.S. "Evolution of explosion in TATB HE in the process of its expansion into a free space followed by impact against hard barrier" AIP Conf. Proc. 370 875-878
- 1996, Plaksin, I.Y., Gerasimenko, V.F., Shutov, V.I. and Gerasimov, V.M. "On sensitivity of TATB-based shock wave damaged explosive", in "Energetic Materials: Technology, Manufacturing and Processing", paper 141, publ. Karlsruhe, Germany, Fraunhofer Institut für Chemische Technologie
- 1996, Podurets, A.M., Barenboim, A.I. and Trunin, R.F. "X-ray flash diffraction study of shock phase transitions in zirconium and bismuth" AIP Conf. Proc. 370 231-233
- 1996, Prieto, F.E. and Renero, C. "Shock Mach number as a variable in high pressure thermodynamics" J. Phys. Chem. Solids 57 1785-1789
- 1996, Prut, V.V. and Shybaev, S.A. "High rate deformation of metallic liner and its dislocation description" J. Phys. D: Appl. Phys. 29 3071-3078
- 1996, Puckett, E.G. and Miller, G.H. "Numerical computation of jetting impacts", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1467-1472, publ. Singapore, World Scientific
- 1996, Pujols, H.-C. and Pouliquen, B. "On the validity of the thermal explosion model in shock wave initiated nitromethane" Propell. Explos. Pyrotech. 21 19-23
- 1996, Pushkov, V.A., Tsoi, P.A. and Novikov, S.A. "Bauschinger effect in steel under dynamic loading", in "High Pressure Science and Technology", ed. W.A. Trzeciakowski, pp. 939-940, publ. Singapore, World Scientific
- 1996, Quirk, J.J. and Karni, S. "On the dynamics of a shock-bubble interaction" J. Fluid Mech. 318 129-163
- 1996, Quirk, J.J. "A parallel adaptive grid algorithm for computational shock hydrodynamics" Appl. Numer. Math. 20 427-453
- 1996, Radic, V.N. "Welding by explosion and deformation of plane plates", in "Theory and Practice of Energetic Materials", ed. C. Feng, Y. Ou and Q. Zeng, pp. 478-483, publ. Beijing, Beijing Institute of Technology Press
- 1996, Rajendran, A.M. and Grove, D.J. "Modeling the shock response of silicon carbide, boron carbide and titanium diboride" Int. J. Impact Engng 18 611-631
- 1996, Rajendran, A.M. and Iyer, K.R. "Comments on material strength model formulation in hydrocodes for high loading rate applications", in "Structures under Shock and Impact IV", ed. N. Jones, C.A. Brebbia and A.J. Watson, pp. 501-509, publ. Southampton, Computational Mechanics Publications
- 1996, Rajendran, A.M. and Grove, D.J. "Determination of Rajendran-Grove ceramic constitutive model constants" AIP Conf. Proc. 370 539-542
- 1996, Rawers, J.C. and Korth, G. "Microstructure of attrition ball-milled and explosively compacted iron powder alloys" NanoStruct. Mater. 7 25-45

- 1996, Raz, T. and Levine, R.D. "Fast translational thermalization of extreme disequilibrium induced by cluster impact" *Chem. Phys.* 213 263-275
- 1996, Remiot, C., Mexmain, J.M. and Bonnet, L. "Precise method to determine points on isentropic release curve on copper" *AIP Conf. Proc.* 370 955-958
- 1996, Renero, C. and Prieto, F.E. "Shock Hugoniot for porous materials" *AIP Conf. Proc.* 370 113-116
- 1996, Renlund, A.M. "Reactive wave growth in shock-compressed thermally degraded high explosives" *AIP Conf. Proc.* 370 863-866
- 1996, Resnyansky, A.D., Romensky, E.I., Belov, V.Y. and Williams, G.H. "Modeling shock-wave propagation in obliquely loaded unidirectional composites", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1425-1430, publ. Singapore, World Scientific
- 1996, Rice, B.M., Mattson, W., Grosh, J. and Trevino, S.F. "Molecular-dynamics study of detonation. I: A comparison with hydrodynamic predictions" *Phys. Rev. E* 53 611-622
- 1996, Rice, B.M., Mattson, W., Grosh, J. and Trevino, S.F. "Molecular-dynamics study of detonation. II: The reaction mechanism" *Phys. Rev. E* 53 623-635
- 1996, Riou, P. "Contribution à l'étude de l'endommagement du carbure de silicium: Application aux blindages", PhD thesis, Univ. of Ecole Nationale Supérieure des Mines de Paris
- 1996, Rosenberg, Z., Bourne, N.K. and Millett, J.C.F. "Direct measurements of strain in shock-loaded glass specimens" *J. Appl. Phys.* 79 3971-3974
- 1996, Rosenberg, Z. "On the correlation between dynamic compressive strengths of strong ceramics and their indentation hardness" *AIP Conf. Proc.* 370 543-546
- 1996, Rosenberg, Z. and Ginzburg, A. "On the source for failure of commercial manganin gauges at high shock pressures" *AIP Conf. Proc.* 370 1049-1052
- 1996, Rothberg, S. and Coupland, J. "The new laser Doppler accelerometer for shock and vibration measurement" *Optics Lasers Engng* 25 217-225
- 1996, Rothman, S.R., Evans, A.M. and Freeman, N.J. "Copper shock Hugoniot experiments using high power lasers" *AIP Conf. Proc.* 370 77-80
- 1996, Royal, T.E., Namjoshi, S. and Thadhani, N.N. "Mechanistic processes influencing shock chemistry in powder mixtures of the Ti-Si, Ti-Al, and Ti-B systems" *Metall. Mater. Trans. A* 27 1761-1771
- 1996, Royce, E.B., Keeler, R.N. and Mitchell, A.C. "Some work by Ya.B. Zeldovich on electromagnetic effects in shock waves, and similar work by U.S. scientists" *Combust. Explos. Shock Waves* 32 121-133
- 1996, Rozmus, W., Tikhonchuk, V.T. and Cauble, R. "A model of ultrashort laser pulse absorption in solid targets" *Phys. Plasmas* 3 360-367

- 1996, Rubin, M.B., Elata, D. and Attia, A.V. "Modeling added compressibility of porosity and the thermomechanical response of wet porous rock" AIP Conf. Proc. 370 347-350
- 1996, Rutkevich, I., Zaretsky, E. and Mond, M. "Thermodynamic relations, Hugoniot adiabatic, and stability of strong shocks in solids", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1437-1442, publ. Singapore, World Scientific
- 1996, Rybakov, A.P. "Phase transformation of water under shock compression" J. Appl. Mech. Tech. Phys. 37 629-633
- 1996, Saltz, D. and Gülen, S.C. "A study of the liquefaction shock wave structure" AIP Conf. Proc. 370 211-214
- 1996, Sanai, M. "Two examples of industrial applications of shock physics research" AIP Conf. Proc. 370 463-467
- 1996, Sandusky, H.W. and Bernecker, R.R. "Shock reactivity experiments on a porous composite propellant" AIP Conf. Proc. 370 835-838
- 1996, Sandusky, H.W. and Bernecker, R.R. "Gun-launched impact initiation of the composite propellant PBXN-103" AIP Conf. Proc. 370 859-862
- 1996, Sano, Y., Miyagi, K. and Arathon, P. "Nonunique dynamic equilibrium constitutive relation of metal powder depending on its microstructure" Trans. ASME: J. Engng Mater. Technol. 118 12-18
- 1996, Saxena, K., Hironaka, Y., Hirai, H. and Kondo, K.-I. "Shock-induced polarization in normal-hexane" Appl. Phys. Letts 68 920-922
- 1996, Saxena, K., Hironaka, Y., Hirai, H. and Kondo, K. "Shock-induced polarization in n-heptane" Rep. Res. Lab. Engng Mater. Tokyo Inst. Technol. 21 49-54
- 1996, Scandolo, S., Chiarotti, G.L. and Tosatti, E. "SC4: A metallic phase of carbon at terapascal pressures" Phys. Rev. B 53 5051-5054
- 1996, Scheidler, M. "Formulas for the pressure and bulk modulus in uniaxial strain" AIP Conf. Proc. 370 475-478
- 1996, Schmidt, S.C. and Tao, W.C., Eds. "Shock Compression of Condensed Matter - 1995 (AIP Conf. Proc. 370)", publ. Woodbury, NY, American Institute of Physics
- 1996, Segletes, S.B. "An equation of state for metals", ARL-TR-1270, Army Research Laboratory, Aberdeen Proving Ground
- 1996, Seitz, M.W. and Skews, B.W. "Shock impact on porous plugs with a fixed gap between the plug and the wall", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1381-1386, publ. Singapore, World Scientific
- 1996, Sekine, T., Tashiro, S., Kobayashi, T. and Matsumura, T. "The NIRIM two-stage light gas gun: Performance test results" AIP Conf. Proc. 370 1201-1204

- 1996, Selezenev, A.A., Berezhko, P.G., Ganchuk, N.S. and Kreknin, D.A. "Molecular dynamics simulation of shock wave interaction with defects in solid" AIP Conf. Proc. 370 175-178
- 1996, Semenov, A.Y. "Modeling of the shock-induced luminescence of free metal surface", in "Proc. 12th Int. Conf. on Laser Interaction and Related Plasma Phenomena", pp. 434-442, publ. New York, American Institute of Physics
- 1996, Sharma, S.M. and Sikka, S.K. "Pressure induced amorphization of materials" Prog. Mater. Sci. 40 1-77
- 1996, Sharma, A.K. "Numerical method for conversion of shock pressures from air-to-water", in "Theory and Practice of Energetic Materials", ed. C. Feng, Y. Ou and Q. Zeng, pp. 362-364, publ. Beijing, Beijing Institute of Technology Press
- 1996, Sheffield, S.A., Gustavsen, R.L. and Alcon, R.R. "Observations of shock-induced reaction in liquid bromoform up to 11GPa" AIP Conf. Proc. 370 771-774
- 1996, Sheffield, S.A., Gustavsen, R.L. and Alcon, R.R. "Hugoniot and initiation measurements on TNAZ explosive" AIP Conf. Proc. 370 879-882
- 1996, Shi, H.-H., Koshiyama, K. and Itoh, M. "Further study of the generation technique of high-speed liquid jets and related shock wave phenomena using a helium gas gun" Jpn. J. Appl. Phys. 35 4147-4156
- 1996, Shi, H.-H. and Itoh, M. "Design and experiment of a small high-speed liquid jet apparatus" Jpn. J. Appl. Phys. 35 4157-4165
- 1996, Short, M. and Dold, J.W. "Unsteady gasdynamic evolution of an induction domain between a contact surface and a shock wave. 1: Thermal runaway" SIAM J. Appl. Math. 56 1295-1316
- 1996, Shunin, V.M., Nabatov, S.S., Yakushev, V.V. and Volkov, A.P. "High-speed spherical solid registration by the use of piezoelectric composite films" AIP Conf. Proc. 370 1085-1088
- 1996, Simha, C.H.M. and Bless, S.J. "Carbon piezoresistive gauges in one-dimensional stress measurements" AIP Conf. Proc. 370 1037-1039
- 1996, Simha, K.R.Y. "Effect of open joint on stress wave propagation", in "Rock Fragmentation by Blasting", ed. B. Mohanty, pp. 81-86, publ. Rotterdam, The Netherlands, A.A. Balkema
- 1996, Simpson, R.L., Urtiew, P.A. and Tarver, C.M. "Shock initiation of 1,3,3-trinitroazetidine (TNAZ)" AIP Conf. Proc. 370 883-886
- 1996, Sindhu, S. and Menon, C.S. "Higher order elastic constants and generalised Grüneisen parameters of elastic waves and low temperature thermal expansion of gadolinium" Pramana J. Phys. 47 435-445
- 1996, Sindhu, S. and Menon, C.S. "Fourth order nonlinear elastic coefficients of hexagonal close packed lattice" J. Phys. Chem. Solids 57 1307-1309
- 1996, Singh, R. and Shukla, A. "Explosively generated pulse propagation through particles containing natural cracks" Mech. Mater. 23 255-270

- 1996, Sivakumar, K., Balakrishna Bhat, T. and Ramakrishnan, P. "Dynamic consolidation of aluminium and Al-20 V/o SiCp composite powders" J. Mater. Process. Technol. 62 191-198
- 1996, Skews, B.W., Sellschop, R.M. and Legoete, T. "Axisymmetric tests of shock-wave impact on PUR foam", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1375-1380, publ. Singapore, World Scientific
- 1996, Song, S.G., Gray III, G.T. and Lopez, M.F. "Deformation response of zirconium after shock-loading" AIP Conf. Proc. 370 639-642
- 1996, Sorek, S., Krylov, A., Levy, A. and Ben-Dor, G. "Simple waves in saturated porous media. 2: The non isothermal case" JSME Int. J. B 39 299-304
- 1996, Soures, J.M., McCrory, R.L., Verdon, C.P., Babushkin, A., Bahr, R.E., Boehly, T.R., Boni, R., Bradley, D.K., Brown, D.L., Craxton, R.S., Delettrez, J.A., Donaldson, W.R., Epstein, R., Jaanimagi, P.A., Jacobs, S.D., Kearney, K., Keck, R.L., Kelly, J.H., Kessler, T.J., Kremens, R.L., Knauer, J.P., Kumpan, S.A., Letzring, S.A., Lonobile, D.J., Loucks, S.J., Lund, L.D., Marshall, F.J., McKenty, P.W., Meyerhofer, D.D., Morse, S.F.B., Okishev, A., Papernov, S., Pien, G., Seka, W., Short, R., Shoup III, M.J., Skeldon, M., Skupsky, S., Schmid, A.W., Smith, D.J., Swales, S., Wittman, M. and Yaakobi, B. "Direct-drive laser-fusion experiments with the OMEGA, 60-beam, >40 kJ, UV laser system" Phys. Plasmas 3 2108-2112
- 1996, Steinberg, D.J. "Modeling release behavior in shocked tantalum" AIP Conf. Proc. 370 311-314
- 1996, Stiel, L.I., Rotondi, P. and Baker, E.L. "Optimization of parameters for JCZ3 equation of state" AIP Conf. Proc. 370 389-392
- 1996, Sturtevant, B., Shepherd, J.E. and Hornung, H.G., Eds. "Proc. 20th Int. Symp. on Shock Waves", publ. Singapore, World Scientific
- 1996, Subramanian, V. and Thadhani, N.N. "Reaction behavior of shock compressed aluminum and iron-oxide powder mixtures" AIP Conf. Proc. 370 681-684
- 1996, Sugiyama, M. and Isogai, T. "Microscopic approach to shock waves in crystal solids. 2: Rankine-Hugoniot equations" Jpn. J. Appl. Phys. 35 3505-3517
- 1996, Sun, C.-W., Zhuang, S.-M., Wang, Y.-P. and Liu, C.-L. "Dynamic fracture in metals at high strain rate", in "High Pressure Shock Compression of Solids II: Dynamic Fracture and Fragmentation", ed. L. Davison, D.E. Grady and M. Shahinpoor, pp. 71-89, publ. New York, Springer-Verlag
- 1996, Sunahara, A., Takeuchi, H., Takabe, H. and Mima, K. "Shock-wave-driven instability at material interface in laser-driven implosion" Jpn J. Appl. Phys. 35 5501-5508

- 1996, Sundaram, S. and Clifton, R.J. "Pressure-shear impact investigation of the dynamic response of ceramics", in "Advances in Failure Mechanisms in Brittle Materials. AMD 219", ed. R.J. Clifton and H.D. Espinosa, pp. 59-80, publ. New York, American Society of Mechanical Engineers
- 1996, Surov, V.S. "A model of a foam" Combust. Explos. Shock Waves 32 173-175
- 1996, Surov, V.S. "Calculation of the interaction between pressure waves and a target in the presence of a foamy shield" Combust. Explos. Shock Waves 32 702-706
- 1996, Surov, V.S. "Propagation of waves in foams" High Temp. 34 280-287
- 1996, Sutherland, G.T., Ashwell, K.D., O'Connor, J.H., Baker, R.N. and Lemar, E.R. "Shock response of several plastic bonded explosives" AIP Conf. Proc. 370 763-766
- 1996, Swift, D.C. "Ab fere initio equations of state for aluminium" AIP Conf. Proc. 370 73-76
- 1996, Syono, Y., Hikosaka, H., Kikuchi, M. and Fukuoka, K. "Shock-synthesis of a metastable tetragonal phase of EuBa₂Cu₃O_y" AIP Conf. Proc. 370 737-740
- 1996, Szepessy, A. and Zumbrun, K. "Stability of rarefaction waves in viscous media" Arch. Ration. Mech. Anal. 133 249-298
- 1996, Tamagawa, M. and Akamatsu, T. "Effects of shock waves on living tissues: Numerical analysis of a propagating pressure wave toward living tissue" JSME Int. J. B 39 714-720
- 1996, Tan, T.-H. and Marsh, S.P. "Plasma production from shock compression of condensed matter" AIP Conf. Proc. 370 989-992
- 1996, Tan, T.-H. and Marsh, S.P. "Investigation of HE-driven cylindrical liner implosions", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1419-1424, publ. Singapore, World Scientific
- 1996, Tang, W.-H., Jing, F.-Q., Zhang, R.-Q. and Hu, J.-B. "Thermal relaxation phenomena across the metal/window interface and its significance to shock temperature measurements of metals" J. Appl. Phys. 80 3248-3253
- 1996, Tang, W.-H., Zhang, R.-Q., Jing, F.-Q. and Hu, J.-B. "Restudy on the thermal relaxation at interfaces following shock compression" AIP Conf. Proc. 370 279-282
- 1996, Tang, Z.P., Horie, Y. and Psakhie, S.G. "Discrete meso-element dynamic simulation of shock response of reactive porous solids" AIP Conf. Proc. 370 657-660
- 1996, Tang, W.-H., Zhang, R.-Q., Jing, F.-Q. and Hu, J.-B. "Apparent spectral radiance at shocked metal/window interface" AIP Conf. Proc. 370 917-920
- 1996, Tarver, C.M., Urtiew, P.A. and Tao, W.C. "Shock initiation of a heated ammonium perchlorate-based propellant" Combust. Flame 105 123-131

- 1996, Tarver, C.M., Tao, W.C. and Lee, C.G. "Sideways plate push test for detonating solid explosives" Propell. Explos. Pyrotech. 21 238-246
- 1996, Tarver, C.M., Hoffman, D.M., Urtiew, P.A. and Tao, W.C. "Shock initiation of TATB/FEFO formulations" J. Energ. Mater. 14 217-256
- 1996, Tarver, C.M., Chidester, S.K. and Nichols III, A.L. "Critical conditions for impact- and shock-induced hot spots in solid explosives" J. Phys. Chem. 100 5794-5799
- 1996, Tarver, C.M., Simpson, R.L. and Urtiew, P.A. "Shock initiation on an ϵ -Cl-20-estane formulation" AIP Conf. Proc. 370 891-894
- 1996, Tarzhanov, V.I., Zinchenko, A.D., Smirnov, B.N., Pogrebov, A.I., Sdobnov, V.I. and Tokarev, B.B. "PETN initiation by a light-induced explosion of a metal film" Combust. Explos. Shock Waves 32 214-218
- 1996, Taylor, P.E., Gilbert, P.H., Kernthaler, C., Lee, L.M., Smith, E.A., Reeder, S.T. and Anderson, M.U. "Quartz gauge response in ion radiation" AIP Conf. Proc. 370 1033-1036
- 1996, Ternovoi, V.Y., Fortov, V.E., Kvitov, S.V. and Nikolaev, D.N. "Experimental study of lead critical point parameters" AIP Conf. Proc. 370 81-84
- 1996, Thadhani, N.N., Subramanian, V., Russell, R., Savage, D. and Gupta, Y.M. "The effect of pulse duration on shock-induced chemical reaction in Ti-Si powder mixtures" AIP Conf. Proc. 370 709-712
- 1996, Tian, Z.-M., Fang, Q. and Qian, Q.-H. "Experimental investigation of shock isolator systems employing foam isolators", in "Proc. 2nd Int. Symp. on Impact Engineering", ed. C.-Y. Chiem, L.L. Wang and S. Tanimura, pp. 142-147, publ. Beijing, Chinese Journal of Mechanics Press
- 1996, Timnat, Y.M. and Rosenband, V. "Combustion synthesis of advanced ceramics assisted by explosive compaction", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1407-1412, publ. Singapore, World Scientific
- 1996, Tjavaras, A.A. and Triantafyllou, M.S. "Shock waves in curved synthetic cables" ASCE: J. Engng Mech. 122 308-315
- 1996, Tokheim, R.E. and Williams, G.C. "Computed and observed experimental double pulse phenomena in aluminum PRS experiments" AIP Conf. Proc. 370 1269-1272
- 1996, Tokheim, R.E., Seaman, L., Cooper, T., Lew, B., Curran, D.R., Sanchez, J., Anderson, A. and Tobin, M. "Calculating the shrapnel generation and subsequent damage to first wall and optics components for the National Ignition Facility" Fusion Technol. 30 745-751
- 1996, Tollier, L. "Caractérisation de chocs laser à éclairements modérés par interférométrie Doppler Visar: Application à l'étude de l'endommagement par écaillement de matériaux métalliques", PhD thesis, Univ. of Poitiers, France

- 1996, Tollier, L., Bartrnicky, E. and Fabbro, R. "Experimental and numerical study of laser-driven spallation on aluminum with VISAR diagnostic" Proc. SPIE 2789 254-263
- 1996, Tollier, L., Bartrnicky, E. and Fabbro, R. "Experimental and numerical study of laser-driven spallation with VISAR diagnostic" AIP Conf. Proc. 370 1265-1268
- 1996, Tonks, D.L. "Shock wave plasticity in molybdenum at 293K and 1673K" AIP Conf. Proc. 370 507-510
- 1996, Trebinski, R., Wlodarczyk, E., Cudzilo, S., Maranda, A., Nowaczewski, J. and Trzcinski, W. "Comparison of the effects of loading alumina in shock and detonation waves", in "High Pressure Science and Technology", ed. W.A. Trzeciakowski, pp. 957-959, publ. Singapore, World Scientific
- 1996, Trepanier, J.Y., Paraschivou, M., Reggio, M. and Camarero, R. "A conservative shock fitting method on unstructured grids" J. Comput. Phys. 126 421-433
- 1996, Trott, B.D., Fenton, G.K. and Ebersole, H.N. "Hugoniot equation of state of liquid propellant" AIP Conf. Proc. 370 149-152
- 1996, Trott, W.M. "High-speed optical studies of the driving plasma in laser acceleration of flyer plates" AIP Conf. Proc. 370 921-924
- 1996, Trunin, R.F. and Simakov, G.V. "The peculiarities of porous metal compression in shock waves" AIP Conf. Proc. 370 117-120
- 1996, Trunin, R.F., Podurets, M.A., Zubarev, V.N., Matveev, A.Y., Moiseev, B.N., Prokhorov, L.V., Shuikin, A.N., Shcherbinskaya, N.P. and Portnyagina, S.F. "Phase transformations of rock salt in the shock wave of an underground nuclear explosion" High Temp. 34 864-868
- 1996, Uchino, M. and Mashimo, T. "Hugoniot measurements of zinc sulfide" AIP Conf. Proc. 370 975-976
- 1996, Ueda, Y., Murakawa, H. and Ma, N.X. "Measuring method for residual stresses in explosively clad plates and a method of residual stress reduction" Trans. ASME: J. Engng Mater. Technol. 118 576-582
- 1996, Urlin, V.D., Mochalov, M.A. and Mikhailov, O.L. "Quasi-isentropic compression of liquid argon at pressure up to 500 GPa" AIP Conf. Proc. 370 55-56
- 1996, Urlin, V.D., Mochalov, M.A. and Mikhailova, O.L. "Quasi-isentropic compression of liquid argon at pressure up to 500 GPa", in "High Pressure Science and Technology", ed. W.A. Trzeciakowski, pp. 992-993, publ. Singapore, World Scientific
- 1996, Urtiew, P.A., Tarver, C.M., Maienschein, J.L. and Tao, W.C. "Effect of confinement and thermal cycling on the shock initiation of LX-17" Combust. Flame 105 43-53
- 1996, Urtiew, P.A., Tarver, C.M. and Simpson, R.L. "Shock initiation of 2,4-dinitroimidazole (2,4-DNI)" AIP Conf. Proc. 370 887-890

- 1996, Utkin, A.V., Kanel, G.I. and Baumung, K. "Experimental observations of state of matter heated by the ion beam" AIP Conf. Proc. 370 1243-1246
- 1996, Utkin, A.V., Kanel, G.I., Razorenov, S.V., Baumung, K. and Rusch, D. "Diagnostics of high-power ion beam interaction with composite targets" J. Appl. Phys. 79 2180-2185
- 1996, van Dongen, M.E.H., Smeets, G.V.R., Hoeijmakers, H.W.M. and Smeulders, D.M.J. "Shock-induced wave phenomena in open-cell permeable and flexible foams", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1363-1368, publ. Singapore, World Scientific
- 1996, van Dongen, M.E.H., van Gool, C.J., Pruijsma, J.P. and Smeulders, D.M.J. "Equilibrium gas dynamics and shock relations for flexible foams", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1369-1374, publ. Singapore, World Scientific
- 1996, Vandersall, K.S. and Thadhani, N.N. "Shock compression synthesis of B1-type tantalum nitride" AIP Conf. Proc. 370 701-704
- 1996, Vildanov, V.G., Gorshkov, M.M., Slobodenjukov, V.M. and Rushkovan, E.H. "Shock compression of low initial density quartz at pressures up to 100 GPa" AIP Conf. Proc. 370 121-124
- 1996, Voitenko, Y.I. "The number of radial cracks in polymethylmethacrylate in explosion of a borehole charge" Combust. Explos. Shock Waves 32 241-243
- 1996, Volyntsev, A.B. and Shilov, A.N. "Computer simulation of structural and mechanical after-effects of shock waves induced by impulse laser in solids", in "Constitutive Relation in High/Very High Strain Rates", ed. K. Kawata and J. Shioiri, pp. 129-136, publ. Tokyo, Springer-Verlag
- 1996, Vong, T.S., Leyrat, J.P. and Pujols, H.C. "Impact effects of a two-parts high velocity jet on homogeneous target" AIP Conf. Proc. 370 1229-1232
- 1996, Vorobiev, O.Y., Fortov, V.E. and Goel, B. "Numerical simulation of shock-wave generation with KALIF", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1443-1448, publ. Singapore, World Scientific
- 1996, Vovchenko, V.I., Krasyuk, I.K., Pashinin, P.P. and Semenov, A.Y. "Investigation of the dynamic fracture process at ultrahigh strain rate caused by laser-induced shock waves in solid targets", in "Proc. 12th Int. Conf. on Laser Interaction and Related Plasma Phenomena", pp. 369-373, publ. New York, American Institute of Physics
- 1996, Walker, J.D. and Young, R.D. "Deformation mechanisms of powder particles during dynamic consolidation" AIP Conf. Proc. 370 669-672

- 1996, Walker, F.E. and Austing, J.L. "The detonation of solutions of TNT in chlorine trifluoride. I: Computation of the shock Hugoniots of the constituent elements", in "Proc. 22nd Int. Pyrotechnics Seminar", pp. 397-412, publ. Chicago, IIT Research Institute
- 1996, Wang, W., Jin, X.-G. and Rosenberg, Z. "Improved analytical model for the piezoresistive response of lateral manganin stress gauges" AIP Conf. Proc. 370 1045-1048
- 1996, Warnes, R.H., Paisley, D.L. and Tonks, D.L. "Hugoniot and spall data from the laser-driven miniflyer" AIP Conf. Proc. 370 495-498
- 1996, Wasserman, E., Stixrude, L. and Cohen, R.E. "Thermal properties of iron at high pressures and temperatures" Phys. Rev. B. 53 8296-8309
- 1996, Weir, S.T., Mitchell, A.C. and Nellis, W.J. "Metallization of fluid molecular hydrogen at 140 GPa (1.4 Mbar)" Phys. Rev. Letts 76 1860-1863
- 1996, Weir, S.T., Mitchell, A.C. and Nellis, W.J. "Electrical resistivity of single-crystal alumina shock-compressed in the pressure range 91-220 GPa" J. Appl. Phys. 80 1522-1525
- 1996, Weirick, L.J. and Navarro, M.J. "Shock characterization of TOAD pins" AIP Conf. Proc. 370 1109-1112
- 1996, Wen, W., Zhao, H. and Yun, S. "Shock-deflagration of pyrotechnic to detonation of explosive", in "Theory and Practice of Energetic Materials", ed. C. Feng, Y. Ou and Q. Zeng, pp. 383-388, publ. Beijing, Beijing Institute of Technology Press
- 1996, Werdiger, M., Arad, B., Henis, Z., Horowitz, Y., Moshe, E., Maman, S., Ludmirsky, A. and Eliezer, S. "Asymptotic measurements of free surface instabilities in laser-induced shock-waves" Laser Particle Beams 14 133-147
- 1996, White, C.T., Barrett, J.J.C., Mintmire, J.W., Elert, M.L. and Robertson, D.H. "Effects of nanoscale voids on the sensitivity of model energetic materials" Mater. Res. Soc. Symp. Proc. 418 277-280
- 1996, White, H.G. and Ohrt, A.P. "The WES large-diameter gas gun: A unique tool for shock physics studies", in "Structures under Extreme Loading Conditions. PVP 325", ed. Y.S. Shin and J.A. Zukas, pp. 237-246, publ. New York, American Society of Mechanical Engineers
- 1996, White, C.T., Barrett, J.J.C., Mintmire, J.W., Elert, M.L. and Robertson, D.H. "Molecular dynamics study of chemistry from strong shock waves interacting with voids" AIP Conf. Proc. 370 187-190
- 1996, Whitworth, N.J. and Maw, J.R. "Modelling shock desensitisation of heterogeneous explosives" AIP Conf. Proc. 370 425-428
- 1996, Williams, P.E. "The influence of the reaction rate of explosives on blast effects" AIP Conf. Proc. 370 469-472

- 1996, Wilson, W.H., Forbes, J.W., Gustavson, P.K., Lemar, E.R. and Sutherland, G.T. "Detonation properties of the non-ideal explosive PBXW-123" AIP Conf. Proc. 370 795-798
- 1996, Winkler, W.-D. "Elastoplastic wave propagation processes in carbide and boride ceramics (in German)", PhD thesis, Univ. of Munich, Germany
- 1996, Woolsey, N.C., Asfaw, A., Lee, R.W., Wark, J.S. and Cauble, R. "Measurement of near-Mbar shock fronts in crystals by X-ray diffraction", in "High Pressure Science and Technology", ed. W.A. Trzeciakowski, pp. 989-991, publ. Singapore, World Scientific
- 1996, Woolsey, N.C., Cauble, R., Lee, R.W. and Wark, J.S. "In situ X-ray diffraction from uniform radiation driven shocks in crystalline solids" AIP Conf. Proc. 370 997-1000
- 1996, Wouchuk, J.G. and Nishihara, K. "Linear perturbation growth at a shocked interface" Phys. Plasmas 3 3761-3776
- 1996, Wu, Q., Tan, H. and Jing, F.-Q. "A thermodynamic model for prediction of shock adiabatics of porous materials" AIP Conf. Proc. 370 129-132
- 1996, Wu, Q. and Jing, F.-Q. "Thermodynamic equation of state and application to Hugoniot predictions for porous materials" J. Appl. Phys. 80 4343-4349
- 1996, Wu, C.C. and Roberts, P.H. "Structure and stability of a spherical shock wave in a van der Waals gas" Quart. J. Mech. Appl. Math. 49 501-543
- 1996, Xia, X., Lin, Q., Li, G. and Zhang, G. "Determination of the threshold pressure of shock initiation of explosives by using gas gun", in "Theory and Practice of Energetic Materials", ed. C. Feng, Y. Ou and Q. Zeng, pp. 389-394, publ. Beijing, Beijing Institute of Technology Press
- 1996, Xie, K., Li, C., Xue, J., Zhang, H. and Yao, C. "Automatic test system for the exploding foil initiator", in "Theory and Practice of Energetic Materials", ed. C. Feng, Y. Ou and Q. Zeng, pp. 395-399, publ. Beijing, Beijing Institute of Technology Press
- 1996, Yaakobi, B., Shvarts, D., Epstein, R. and Su, Q. "X-ray backlighting imaging of mixed imploded targets" Laser Particle Beams 14 81-91
- 1996, Yadav, H.S., Bohra, B.M., Joshi, G.D., Sundaram, S.G., Bhise, S.S., Kadam, S.G. and Kulkarni, M.W. "Explosive acceleration of metal plates in multilayer arrangement", in "Proc. 16th Int. Symp. on Ballistics. Vol. 3", pp. 581-588, publ. Arlington, Virginia, American Defense Preparedness Association
- 1996, Yadav, H.S., Sundaram, S.G., Kamat, P.V. and Kulkarni, M.W. "Blast wave initiation of a sheet explosive covered with metal plates" Defence Sci. J. 46 385-391
- 1996, Yadav, R.P. and Rana, D.A. "Effect of overtaking disturbances on strong spherical shock wave" J. Fiz. Malaysia 17(3-4) 105-112

- 1996, Yakovlev, I.V., Pai, V.V. and Kuzmin, G.E. "Approximate estimate of loading parameters in composites for the case of strong shock waves" AIP Conf. Proc. 370 677-680
- 1996, Yakushev, V.V. "Electrical effects in polarized polymer films under high velocity impact: Application to impact gauges" AIP Conf. Proc. 370 1069-1073
- 1996, Yamada, K. "Rapid growth of zinc oxide polyhedral crystals from whiskers using a shock wave technique" Philos. Mag. A 73 159-168
- 1996, Yamada, K., Kodama, T. and Takayama, K. "Mechanisms of shock wave generation resulting from shock-wave/bubble interaction in liquids", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shepherd and H.G. Hornung, pp. 569-574, publ. Singapore, World Scientific
- 1996, Yamada, K. "Fast amorphization process of the crystalline powder of GeTe using a shock-wave technique" J. Alloys Compounds 236 189-194
- 1996, Yamada, K. "Boron carbide particles formed from an amorphous boron/graphite powder mixture using a shock-wave technique" J. Amer. Ceram. Soc. 79 1113-1116
- 1996, Yang, Y., Xinming, Z., Zhenghua, L. and Qingyun, L. "Adiabatic shear band on the titanium side in the Ti/mild steel explosive cladding interface" Acta mater. 44 561-565
- 1996, Yang, W. and Ahrens, T.J. "Impact jetting of geological materials", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shepherd and H.G. Hornung, pp. 1461-1466, publ. Singapore, World Scientific
- 1996, Yang, J. and Wang, S. "A new constitutive model for rock fragmentation by blasting: Fractal damage model", in "Rock Fragmentation by Blasting", ed. B. Mohanty, pp. 95-100, publ. Rotterdam, The Netherlands, A.A. Balkema
- 1996, Yang, W. "Impact volatilization of calcite and anhydrite and the effects on global climate from the K/T impact crater at Chicxulub", PhD thesis, Univ. of Caltech
- 1996, Yano, K., Horie, Y. and Tang, Z.P. "Calculation of nonequilibrium velocities in powder mixtures under shock loading" AIP Conf. Proc. 370 661-664
- 1996, Yao, C., Gao, P., Cheng, R. and Ma, X. "Critical energy study for projectile-impact shock initiation of explosive and pyrotechnics", in "Theory and Practice of Energetic Materials", ed. C. Feng, Y. Ou and Q. Zeng, pp. 406-411, publ. Beijing, Beijing Institute of Technology Press
- 1996, Yasuhara, M., Watanabe, S., Kitagawa, K., Yasue, T. and Mizutani, M. "Experiment on effects of porosity in the interaction of shock-wave and foam" JSME Int. J. B 39 287-293
- 1996, Yegoryushkin, S.A. and Shubin, G.V. "The stability of a plane longitudinal shock wave in an isotropic elastic medium" J. Appl. Math. Mech. 60 621-627

- 1996, Yoneda, A. "Complete thermodynamic analysis on Hugoniots" Phys. Earth Planet. Inter. 96 129-134
- 1996, Yoo, C.S., Holmes, N.C. and Souers, P.C. "Detonation in shocked homogeneous high explosives" Mater. Res. Soc. Symp. Proc. 418 397-406
- 1996, Yoo, C.S., Holmes, N.C. and Souers, P.C. "Time-resolved temperatures of shocked and detonating energetic materials" AIP Conf. Proc. 370 913-916
- 1996, Young, R.D. "Probing the shock induced reaction threshold of powder mixtures" AIP Conf. Proc. 370 673-676
- 1996, Yu, W., Xu, Z.-Z. and Chen, J.Z. "Shock generation by laser-driven ablation" J. Phys. D: Appl. Phys. 29 1515-1519
- 1996, Yun, S.R., Huang, Z.P. and Shun, Y.F. "Pressure measurement in a recovery tube for superhard BN synthesized by explosion" AIP Conf. Proc. 370 693-696
- 1996, Zaretsky, E. and Kaluzhny, M. "Fracture threshold and shock induced strengthening of stainless steel" AIP Conf. Proc. 370 627-630
- 1996, Zaretsky, E. and Ben-Dor, G. "Thermodynamic law of corresponding shock states in flexible polymeric foams" Trans. ASME: J. Engng Mater. Technol. 188 493-502
- 1996, Zaretsky, E. and Iggra, O. "Experimental observation of shock-wave evolution in an elastomeric foam", in "Proc. 20th Int. Symp. on Shock Waves", ed. B. Sturtevant, J.E. Shephard and H.G. Hornung, pp. 1339-1344, publ. Singapore, World Scientific
- 1996, Zaretsky, E. "Dislocation mechanism of shock-induced fracture and martensite formation in austenite steel", in "Johannes Weertman Symposium, TMS Annual Meeting", ed. R.J. Arsenault, D. Cole, T. Gross, H. Sizek, P. Liaw, S. Parameswaran and G. Kostorz, pp. 455-460, publ. Warrendale, Pennsylvania, Minerals, Metals and Materials Society
- 1996, Zaretsky, E. "Mechanism and kinetics of phase transformation in KCl under shock compression" AIP Conf. Proc. 370 223-226
- 1996, Zaslavskii, Y.M. and Rubtsov, S.N. "Redistribution of radiation energy over elastic wave with changes in the source excitation intensity" Acoust. Phys. 42 771-772
- 1996, Zepf, M., Castro-Colin, M., Chambers, D., Preston, S.G., Wark, J.S., Zhang, J., Danson, C.N., Neely, D., Norreys, P.A., Dangor, A.E., Dyson, A., Lee, P., Fews, A.P., Gibbon, P., Moustazis, S. and Key, M.H. "Measurements of the hole boring velocity from Doppler shifted harmonic emission from solid targets" Phys. Plasmas 3 3242-3244
- 1996, Zerilli, F.J. and Jones, H.D. "High pressure equation of state for Fe₂O₃" Mater. Res. Soc. Symp. Proc. 418 421-426
- 1996, Zerilli, F.J. and Jones, H.D. "Surface energy and the size of diamond crystals" AIP Conf. Proc. 370 163-166

- 1996, Zhang, Y. and Ramesh, K.T. "The behavior of an elastohydrodynamic lubricant at moderate pressures and high shear rates" Trans. ASME: J. Tribology 118 162-168
- 1996, Zhang, S., Zhang, J. and Gou, R. "Effect of particle size and particle grading on the shock sensitivity", in "Theory and Practice of Energetic Materials", ed. C. Feng, Y. Ou and Q. Zeng, pp. 139-143, publ. Beijing, Beijing Institute of Technology Press
- 1996, Zhang, H. and Wan, F. "Microscopical and dynamic observation of impact on emulsion explosive", in "Theory and Practice of Energetic Materials", ed. C. Feng, Y. Ou and Q. Zeng, pp. 412-415, publ. Beijing, Beijing Institute of Technology Press
- 1996, Zhang, J.-H. and Ding, J. "Quasitemperature distribution in shocked energetic molecular solids" AIP Conf. Proc. 370 369-372
- 1996, Zhao, F., Wang, S. and Zhang, Y. "Two-dimensional calculation for the fragment density in the explosive driving", in "Theory and Practice of Energetic Materials", ed. C. Feng, Y. Ou and Q. Zeng, pp. 422-426, publ. Beijing, Beijing Institute of Technology Press
- 1996, Zhavoronkov, V.I. and Morozov, V.A. "Oscillographic method of measuring shockwave characteristics" Meas. Technol. 39 1038-1040
- 1996, Zhernokletov, M.V. and Simakov, G.I. "Studies of shock-compressed graphite behavior in reshock and release waves" AIP Conf. Proc. 370 69-72
- 1996, Zhilin, A.A., Fedorov, A.V. and Fomin, V.M. "Wave propagation in a two-phase mixture of compressible mediums characterized by a difference in pressure and velocity between components" Phys. Doklady 41 430-434
- 1996, Zhong, X.G., Hou, T.Y. and LeFloche, P.G. "Computational methods for propagating phase boundaries" J. Comput. Phys. 124 192-216
- 1996, Zhou, X.M., Hu, J.B., Jing, F.Q. and Wang, J.G. "Sound velocity measurement for 4.2Ni2.45Fe0.35Co0.05MnW alloy under shock compression" AIP Conf. Proc. 370 109-112
- 1996, Zhou, X.N., Jing, F.Q. and Hu, J.B. "Sound speed in a shocked tungsten alloy: Its significance in studying 'softening' mechanism to multiphase alloys" Chinese Phys. Letts 13 761-764
- 1996, Zhou, P. and Hu, S. "Critical criterion for the shock initiation of heterogeneous explosives", in "Theory and Practice of Energetic Materials", ed. C. Feng, Y. Ou and Q. Zeng, pp. 427-431, publ. Beijing, Beijing Institute of Technology Press
- 1996, Zhou, G., Yun, S.R., Huang, F.L. and Ding, J. "Theoretical research on mechanisms by which carbon in explosives is synthesized into ultrafine diamond in detonation processes: 'Gaslike-liquid-solid-graphitization' model" AIP Conf. Proc. 370 397-400

- 1996, Zhugin, Y.N. "The behaviour of α -quartz under high dynamic and static pressures: New results and views", in "High Pressure Science and Technology", ed. W.A. Trzeciakowski, pp. 953-956, publ. Singapore, World Scientific
- 1996, Zhugin, Y.N. "The behaviour of α -quartz under high dynamic and static pressures: New results and views" AIP Conf. Proc. 370 97-100
- 1996, Zhurakhovskii, S.V. "Range of application of the acoustic approximation in high-speed collision" Strength Mater. 28 435-441
- 1996, Zotov, E.V., Gerdyukov, N.N. and Volodina, L.V. "A miniature spherical explosive loading device" Combust. Explos. Shock Waves 32 233-238
- 1996, Zurek, A.K., Thissell, W.R., Johnson, J.N., Tonks, D.L. and Hixson, R. "Micromechanics of spall and damage in tantalum" J. Mater. Process. Technol. 60 261-267
- 1996, Zurek, A.K. and Meyers, M.A. "Microstructural aspects of dynamic failure", in "High Pressure Shock Compression of Solids II: Dynamic Fracture and Fragmentation", ed. L. Davison, D.E. Grady and M. Shahinpoor, pp. 25-70, publ. New York, Springer-Verlag
- 1996, Zurek, A.K., Thissell, W.R. and Tonks, D.L. "Spall behavior and damage evolution in tantalum", in "High Pressure Science and Technology", ed. W.A. Trzeciakowski, pp. 941-943, publ. Singapore, World Scientific