Yogendra Gupta

List of Publications by Citations

154 papers	3,193 citations	34 h-index	44 g-index
174 ext. papers	3,540 ext. citations	3.1 avg, IF	5.5 L-index

#	Paper	IF	Citations
154	Dislocation mechanisms for stress relaxation in shocked LiF. *Journal of Applied Physics*, **1975**, 46, 532-546	2.5	113
153	Analysis of Lagrangian gauge measurements of simple and nonsimple plane waves. *Journal of Applied Physics*, **1991**, 69, 6998-7014	2.5	76
152	Shock-Induced Chemical Changes in Neat Nitromethane: Use of Time-Resolved Raman Spectroscopy. *Journal of Physical Chemistry B*, **1997**, 101, 10733-10743	3.4	66
151	Material strength and inelastic deformation of silicon carbide under shock wave compression. *Journal of Applied Physics*, **1998**, 83, 79-86	2.5	65
150	Shock wave induced decomposition of RDX: time-resolved spectroscopy. *Journal of Physical Chemistry A*, **2008**, 112, 7374-82	2.8	58
149	Nonlinear anisotropic description for the thermomechanical response of shocked single crystals: Inelastic deformation. *Journal of Applied Physics*, **2006**, 99, 023510	2.5	55
148	Real-time x-ray diffraction to examine elastic–plastic deformation in shocked lithium fluoride crystals. *Applied Physics Letters*, **1998**, 73, 1655-1657	3.4	54
147	Precursor decay in 1060 aluminum. *Journal of Applied Physics*, **1975**, 46, 4474-4478	2.5	53
146	Use of time-resolved Raman scattering to determine temperatures in shocked carbon tetrachloride. *Journal of Applied Physics*, **1997**, 81, 6662-6669	2.5	52
145	High-Pressure Effects on Fluorescence of Anthracene Crystals. *Journal of Physical Chemistry B*, **2003**, 107, 9268-9274	3.4	52
144	Real-time X-Ray diffraction measurements of the phase transition in KCl shocked along. *Physical Review Letters*, **2000**, 85, 330-3	7.4	51
143	Potential use of the ruby R2 line shift for static high-pressure calibration. *Applied Physics Letters*, **1991**, 58, 583-585	3.4	50
142	Refractive index and elastic properties of z-cut quartz shocked to 60 kbar. *Journal of Applied Physics*, **2000**, 88, 5671-5679	2.5	49
141	Twinning and Dislocation Evolution during Shock Compression and Release of Single Crystals: Real-Time X-Ray Diffraction. *Physical Review Letters*, **2018**, 120, 265503	7.4	46
140	Determination of second-order elastic constants of cyclotetramethylene tetranitramine (β-HMX) using impulsive stimulated thermal scattering. *Journal of Applied Physics*, **2009**, 106, 053505	2.5	45
139	High-Pressure Stability of Energetic Crystal of Dihydroxylammonium 5,5'-Bistetrazole-1,1'-diolate: Raman Spectroscopy and DFT Calculations. *Journal of Physical Chemistry B*, **2015**, 119, 6836-47	3.4	44
138	Equation of state and temperature measurements for shocked nitromethane. *Journal of Chemical Physics*, **2000**, 113, 7492-7501	3.9	44

137	Piezoresistance response of longitudinally and laterally oriented ytterbium foils subjected to impact and quasi-static loading. *Journal of Applied Physics*, **1985**, 57, 2464-2473	2.5	44
136	Experimental developments to obtain real-time x-ray diffraction measurements in plate impact experiments. *Review of Scientific Instruments*, **1999**, 70, 4008-4014	1.7	43
135	Shock response of polycrystalline silicon carbide undergoing inelastic deformation. *Journal of Applied Physics*, **1996**, 79, 1378-1387	2.5	42
134	Transformation of shock-compressed graphite to hexagonal diamond in nanoseconds. *Science Advances*, **2017**, 3, eaao3561	14.3	41
133	Second-order elastic constants of pentaerythritol tetranitrate and cyclotrimethylene trinitramine using impulsive stimulated thermal scattering. *Journal of Applied Physics*, **2008**, 104, 073517	2.5	41
132	Real-Time Observation of a Metastable State during the Phase Transition in Shocked Cadmium Sulfide. *Physical Review Letters*, **1998**, 81, 2938-2941	7.4	41
131	Ordinary refractive index of sapphire in uniaxial tension and compression along the c axis. *Journal of Applied Physics*, **2003**, 93, 1023-1031	2.5	40
130	Anisotropic material model and wave propagation simulations for shocked pentaerythritol tetranitrate single crystals. *Journal of Applied Physics*, **2010**, 107, 103505	2.5	39
129	Velocity correction and refractive index changes for [100] lithium fluoride optical windows under shock compression, recompression, and unloading. *Journal of Applied Physics*, **2008**, 103, 093505	2.5	39
128	Nonlinear anisotropic description for shocked single crystals: Thermoelastic response and pure mode wave propagation. *Journal of Applied Physics*, **2004**, 96, 1993-1999	2.5	39
127	Experimental determination of third-order elastic constants of diamond. *Physical Review Letters*, **2011**, 106, 125502	7.4	38
126	Effect of crystal orientation on dynamic strength of LiF. *Journal of Applied Physics*, **1977**, 48, 5067-5073	2.5	38
125	Quasistatic experiments to determine material constants for the piezoresistance foils used in shock wave experiments. *Journal of Applied Physics*, **1984**, 55, 3984-3993	2.5	35
124	Real-time microstructure of shocked LiF crystals: Use of synchrotron x-rays. *Journal of Applied Physics*, **2009**, 105, 053520	2.5	34
123	Compressive shock wave response of a Zr-based bulk amorphous alloy. *Applied Physics Letters*, **2004** , 84, 1692-1694	3.4	34
122	Stress dependence of elastic-wave attenuation in LiF. *Journal of Applied Physics*, **1975**, 46, 3395-3401	2.5	34
121	Effect of Impurity Clustering on Elastic Precursor Decay in LiF. *Journal of Applied Physics*, **1972**, 43, 2220-2223	2.5	34
120	Shock wave compression and release of hexagonal-close-packed metal single crystals: Inelastic deformation of c-axis magnesium. *Journal of Applied Physics*, **2015**, 117, 105903	2.5	32

119	Real-Time Examination of Atomistic Mechanisms during Shock-Induced Structural Transformation in Silicon. *Physical Review Letters*, **2016**, 117, 045502	7.4	32
118	Wurtzite-to-rocksalt structural transformation in cadmium sulphide shocked along the a axis. *Physical Review B*, **1998**, 58, 5964-5971	3.3	32
117	High-Pressure Crystal Structures of an Insensitive Energetic Crystal: 1,1-Diamino-2,2-dinitroethene. *Journal of Physical Chemistry C*, **2016**, 120, 1218-1224	3.8	31
116	Second-order elastic constants for pentaerythritol tetranitrate single crystals. *Journal of Applied Physics*, **2001**, 90, 1669-1671	2.5	31
115	Structural Transformation and Melting in Gold Shock Compressed to 355 GPa. *Physical Review Letters*, **2019**, 123, 045702	7.4	30
114	Real-time, high-resolution x-ray diffraction measurements on shocked crystals at a synchrotron facility. *Review of Scientific Instruments*, **2012**, 83, 123905	1.7	30
113	High-pressure vibrational and polymorphic response of 1,1-diamino-2,2-dinitroethene single crystals: Raman spectroscopy. *Journal of Physical Chemistry A*, **2014**, 118, 5002-12	2.8	29
112	Inelastic deformation and phase transformation of shock compressed silicon single crystals. *Applied Physics Letters*, **2007**, 91, 201913	3.4	29
111	Refractive indices of sapphire under elastic, uniaxial strain compression along the a axis. *Journal of Applied Physics*, **2001**, 90, 4990-4996	2.5	29
110	Dynamic consolidation of type 304 stainless-steel powders in gas gun experiments. *Journal of Applied Physics*, **1988**, 64, 1446-1456	2.5	29
109	Response of a Zr-based bulk amorphous alloy to shock wave compression. *Journal of Applied Physics* , **2006**, 100, 063522	2.5	27
108	Phase transition in cadmium sulfide single crystals shocked along the c axis. *Journal of Applied Physics*, **1997**, 81, 7203-7212	2.5	26
107	Compression and shear wave measurements to characterize the shocked state in silicon carbide. *Journal of Applied Physics*, **2001**, 89, 5372-5380	2.5	26
106	Real time synchrotron x-ray diffraction measurements to determine material strength of shocked single crystals following compression and release. *Journal of Applied Physics*, **2009**, 106, 033513	2.5	25
105	Elastic wave amplitudes in shock-compressed thin polycrystalline aluminum samples. *Journal of Applied Physics*, **2009**, 106, 073508	2.5	25
104	Dynamic analysis of the response of lateral piezoresistance gauges in shocked ceramics. *Journal of Applied Physics*, **1997**, 82, 2845-2854	2.5	25
103	Raman spectra of shock compressed pentaerythritol tetranitrate single crystals: anisotropic response. *Journal of Physical Chemistry B*, **2006**, 110, 20948-53	3.4	25
102	Shock compression and release of a-axis magnesium single crystals: Anisotropy and time dependent inelastic response. *Journal of Applied Physics*, **2017**, 121, 035901	2.5	24

101	The laser shock station in the dynamic compression sector. I. *Review of Scientific Instruments*, **2019**, 90, 053901	1.7	24
100	High strain-rate shear deformation of a polyurethane elastomer subjected to impact loading. *Polymer Engineering and Science*, **1984**, 24, 851-861	2.3	24
99	Effect of tension on R lines in ruby crystals shocked along crystal c axis. *Journal of Applied Physics*, **1994**, 76, 1784-1788	2.5	23
98	Unloading and reloading response of shocked aluminum single crystals: Time-dependent anisotropic material description. *Journal of Applied Physics*, **2012**, 112, 093509	2.5	22
97	Temperature determination in shocked condensed materials using Raman scattering. *Applied Physics Letters*, **1997**, 70, 967-969	3.4	22
96	Time resolved Raman measurements in □quartz shocked to 60 kbar. *Journal of Applied Physics*, **1994**, 75, 2837-2844	2.5	22
95	Crystal Structure and Melting of Fe Shock Compressed to 273 GPa: In Situ X-Ray Diffraction. *Physical Review Letters*, **2020**, 125, 215702	7.4	22
94	Nanosecond Melting and Recrystallization in Shock-Compressed Silicon. *Physical Review Letters*, **2018**, 121, 135701	7.4	22
93	Strength and elastic deformation of natural and synthetic diamond crystals shock compressed along [100]. *Journal of Applied Physics*, **2010**, 107, 113538	2.5	21
92	Shock-induced fluorescence shift of rhodamine-6G dye in ethanol solution. *Journal of Applied Physics*, **1991**, 70, 7549-7553	2.5	21
91	Time-resolved x-ray diffraction experiments to examine the elastic-plastic transition in shocked magnesium-doped LiF. *Journal of Applied Physics*, **2008**, 104, 013510	2.5	20
90	Wavelength shift of the ruby luminescence R lines under shock compression. *Applied Physics Letters* , **1986**, 49, 856-858	3.4	20
89	Phase Diagram and Decomposition of 1,1-Diamino-2,2-dinitroethene Single Crystals at High Pressures and Temperatures. *Journal of Physical Chemistry C*, **2016**, 120, 11092-11098	3.8	18
88	Time-resolved x-ray diffraction measurements and analysis to investigate shocked lithium fluoride crystals. *Journal of Applied Physics*, **2003**, 93, 3291-3298	2.5	18
87	Shock-induced phase transformation in cadmium sulfide dispersed in an elastomer. *Journal of Applied Physics*, **1988**, 64, 1827-1837	2.5	18
86	Two-dimensional mesoscale simulations of quasielastic reloading and unloading in shock compressed aluminum. *Journal of Applied Physics*, **2006**, 100, 083509	2.5	17
85	Ruby R-line shifts for shock compression along (11 02). *Journal of Applied Physics*, **1998**, 84, 1947-1952	2.5	17
84	Experimental measurements and analysis of the loading and unloading response of longitudinal and lateral manganin gauges shocked to 90 kbar. *Journal of Applied Physics*, **1987**, 62, 2603-2609	2.5	17

83	What Determines the fcc-bcc Structural Transformation in Shock Compressed Noble Metals?. *Physical Review Letters*, **2020**, 124, 235701	7.4	16
82	Transformation of GaAs into an indirect L-band-gap semiconductor under uniaxial strain. *Physical Review B*, **2009**, 80,	3.3	16
81	Impact response of a shorted guard-ring quartz gauge between 20 and 26 kilobar. *Review of Scientific Instruments*, **1974**, 45, 1554-1556	1.7	16
80	Shock compression of aluminum single crystals to 70 GPa: Role of crystalline anisotropy. *Journal of Applied Physics*, **2013**, 114, 153504	2.5	15
79	Material strength determination in the shock compressed state using x-ray diffraction measurements. *Journal of Applied Physics*, **2011**, 109, 123510	2.5	15
78	Shock-wave induced tension and spall in a zirconium-based bulk amorphous alloy. *Journal of Applied Physics*, **2007**, 101, 043514	2.5	15
77	Time-resolved Raman spectrum of shock-compressed diamond. *Applied Physics Letters*, **1989**, 55, 33-35	3.4	15
76	Structural transformations including melting and recrystallization during shock compression and release of germanium up to 45 GPa. *Physical Review B*, **2019**, 99,	3.3	14
75	High-Pressure Structural Response of an Insensitive Energetic Crystal: 1,1-Diamino-2,2-dinitroethene (FOX-7). *Journal of Physical Chemistry C*, **2016**, 120, 27600-27607	3.8	14
74	Shock-compressed graphite to diamond transformation on nanosecond time scales. *Physical Review B*, **2013**, 87,	3.3	14
73	X-ray diffraction and continuum measurements in silicon crystals shocked below the elastic limit. *Applied Physics Letters*, **2007**, 90, 051905	3.4	14
72	Thermomechanical model and temperature measurements for shocked ammonium perchlorate single crystals. *Journal of Applied Physics*, **2002**, 91, 5650-5656	2.5	14
71	Transformation of shock-compressed copper to the body-centered-cubic structure at 180 GPa. *Physical Review B*, **2020**, 102,	3.3	14
70	Elastic anisotropy of shocked aluminum single crystals: Use of molecular dynamics simulations. *Physical Review B*, **2011**, 83,	3.3	13
69	Effect of surface preparation on elastic precursor decay in shocked pure lithium fluoride. *Applied Physics Letters*, **1986**, 48, 1351-1353	3.4	13
68	Incorporation of strain hardening in piezoresistance analysis: Application to ytterbium foils in a PMMA matrix. *Journal of Applied Physics*, **1987**, 61, 489-498	2.5	13
67	Shock compression/release of magnesium single crystals along a low-symmetry orientation: Role of basal slip. *Journal of Applied Physics*, **2019**, 126, 115902	2.5	12
66	Shock wave response of ammonium perchlorate single crystals to 6 GPa. *Journal of Applied Physics*, **2000**, 88, 2371-2377	2.5	12

65	Picosecond time-resolved electronic spectroscopy in plate impact shock experiments: Experimental development. *Review of Scientific Instruments*, **1999**, 70, 1743-1750	1.7	12
64	Electronic and chemical changes in shocked liquid carbon disulfide inferred from time resolved reflection experiments and analysis. *Journal of Chemical Physics*, **1991**, 95, 451-466	3.9	12
63	Elastic compression to 30 kbar along <111> in shocked LiF. *Applied Physics Letters*, **1975**, 26, 38-41	3.4	12
62	Graphite to diamond transformation under shock compression: Role of orientational order. *Journal of Applied Physics*, **2019**, 125, 245902	2.5	11
61	Strength and deformation of shocked diamond single crystals: Orientation dependence. *Physical Review B*, **2018**, 97,	3.3	11
60	Shock wave compression of hexagonal-close-packed metal single crystals: Time-dependent, anisotropic elastic-plastic response of beryllium. *Journal of Applied Physics*, **2014**, 116, 033505	2.5	11
59	Effect of high pressure on acoustic properties of several polymers: Use of impulsive stimulated light scattering method. *Journal of Applied Physics*, **2011**, 109, 083507	2.5	11
58	Shock induced phase change in KCl single crystals: Orientation relations between the B1 and B2 lattices. *Journal of Applied Physics*, **2009**, 105, 013544	2.5	11
57	Time-resolved spectroscopic reflection measurements in shock-compressed materials. *Journal of Applied Physics*, **1991**, 69, 918-928	2.5	11
56	Oscillator strength of ruby R1 line under high pressure. *Applied Physics Letters*, **1989**, 54, 84-85	3.4	11
55	Elastic-plastic deformation of molybdenum single crystals shocked along [100]. *Journal of Applied Physics*, **2017**, 121, 045903	2.5	10
54	Study of tensile deformation in shocked Z-cut, α-quartz using time resolved Raman spectroscopy. *Journal of Applied Physics*, **1995**, 78, 1557-1564	2.5	10
53	Time-resolved optical spectroscopy under shock loading: Electronic and chemical changes in liquid carbon disulfide. *High Pressure Research*, **1992**, 10, 717-732	1.6	10
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51	Shock compression and unloading response of 1050 aluminum to 70 GPA **2012**,		9
50	Pressure-time profile of multiply shocked carbon disulfide. *Journal of Applied Physics*, **1986**, 59, 1141-1146	2.5	9
49	Real-Time Observation of Stacking Faults in Gold Shock Compressed to 150 GPa. *Physical Review X*, **2020**, 10,	9.1	9
48	Piezoresistance response of ytterbium foil gauges shocked to 45 kbar in fused silica matrix. *Journal of Applied Physics*, **1987**, 61, 1304-1310	2.5	8

47	Molecular response of liquid nitrogen multiply shocked to 40 GPa. *Journal of Chemical Physics*, **2014**, 141, 084503	3.9	7
46	Shock compression of pyrolytic graphite to 18 GPa: Role of orientational order. *Journal of Applied Physics*, **2013**, 114, 093515	2.5	7
45	Impact response of the shorted quartz gauge to 40 kbar. *Review of Scientific Instruments*, **1988**, 59, 1189-1194	1.7	7
44	Elastic-plastic deformation of molybdenum single crystals shocked to 12.5 GPa: Crystal anisotropy effects. *Journal of Applied Physics*, **2019**, 125, 055903	2.5	6
43	Shockless and shock wave compression of ballistic gel to 1.3 GPa. *Journal of Applied Physics*, **2014**, 116, 153512	2.5	6
42	Effect of compositional variation on the shock wave response of bulk amorphous alloys. *Journal of Applied Physics*, **2012**, 112, 063529	2.5	6
41	Time-Resolved Electronic Spectroscopy To Examine Shock-Wave-Induced Changes in Anthracene Single Crystals. *Journal of Physical Chemistry C*, **2008**, 112, 7761-7766	3.8	6
40	Band-gap luminescence of GaP:S shock compressed to 5GPa. *Applied Physics Letters*, **2008**, 92, 142104	3.4	6
39	Determination of lateral stresses in shocked solids: Simplified analysis of piezoresistance gauge data. *Journal of Applied Physics*, **1998**, 83, 747-753	2.5	6
38	Shock compression response of an insensitive high explosive single crystal: 1,1-diamino-2,2-dinitroethene (FOX-7). *Journal of Applied Physics*, **2020**, 127, 155901	2.5	5
37	Hugoniot states and optical response of soda lime glass shock compressed to 120 GPa. *Journal of Applied Physics*, **2020**, 127, 205901	2.5	5
36	Role of graphite crystal structure on the shock-induced formation of cubic and hexagonal diamond. *Physical Review B*, **2020**, 101,	3.3	5
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34	Shock Wave Response of Materials at Different Length Scales. *Materials Research Society Symposia Proceedings*, **1998**, 538, 139		5
33	High strain rate response of an elastomer. *High Pressure Research*, **1992**, 10, 785-789	1.6	5
32	Simultaneous measurement of in-material longitudinal and transverse particle velocity histories in a compression-shear experiment. *Journal of Applied Physics*, **1989**, 65, 1898-1901	2.5	5
31	Structural Transformation and Chemical Stability of a Shock-Compressed Insensitive High Explosive Single Crystal: Time-Resolved Raman Spectroscopy. *Journal of Physical Chemistry A*, **2020**, 124, 6521-6527	2.8	5
30	Shock compression response of diamond single crystals at multimegabar stresses. *Physical Review B*, **2020**, 101,	3.3	4

29	Shock compression of molybdenum single crystals to 110 GPa: Elastic–plastic deformation and crystal anisotropy. *Journal of Applied Physics*, **2020**, 127, 205902	2.5	4
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27	Feasibility of stimulated emission to measure R-line shifts in shock compressed ruby. *Journal of Applied Physics*, **1999**, 85, 6425-6429	2.5	4
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25	Effect of initial phase on ultraviolet/visible absorption in shocked carbon disulfide/hexane mixtures. *Journal of Chemical Physics*, **1990**, 93, 2082-2086	3.9	4
24	Sound Velocities in Shock-Synthesized Stishovite to 72 GPa. *Geophysical Research Letters*, **2019**, 46, 13695-13703	4.9	4
23	Optical Response of Soda-Lime Glass Shocked to 14 GPa. *Journal of Dynamic Behavior of Materials*, **2020**, 6, 207-212	1.8	3
22	Direct-to-indirect electronic state transition in dynamically compressed GaAs quantum wells. *Applied Physics Letters*, **2018**, 113, 072101	3.4	3
21	Sound velocities in highly oriented pyrolytic graphite shocked to 18 GPa: Orientational order dependence and elastic instability. *Journal of Applied Physics*, **2015**, 118, 245903	2.5	3
20	Real-time band structure changes of GaAs during continuous dynamic compression to 5 GPa. *Applied Physics Letters*, **2009**, 95, 152108	3.4	3
19	Photoacoustic measurements to determine acoustic velocities in shocked condensed materials: Application to liquid benzene. *Applied Physics Letters*, **2008**, 92, 101926	3.4	3
18	COMPUTATIONAL STUDY OF INTERFACE EFFECT ON IMPACT LOAD SPREADING IN SiC MULTI-LAYERED TARGETS. *International Journal of Computational Methods*, **2005**, 02, 341-373	1.1	3
17	Time-resolved absorption spectroscopy in shocked PETN single crystals. *AIP Conference Proceedings* , **2000**,	0	3
16	Dynamic strength and inelastic deformation of ceramics under shock wave loading **1998**,		3
15	Response to "Comment on "Dynamic analysis of the response of lateral piezoresistance gauges in shocked ceramics" and on "Determination of lateral stresses in shocked solids: Simplified analysis of piezoresistance gauge data" [J. Appl. Phys. 86, 3484 (1999)]. *Journal of Applied Physics*, **1999**, 86, 3487-3489	2.5	3
14	Use of dynamic compression to probe semiconductor response at large strains. *Physica Status Solidi (B): Basic Research*, **2013**, 250, 683-687	1.3	2
13	Time Resolved Optical Spectroscopy to Examine Chemical Decomposition of Energetic Materials Under Static High Pressure and Pulsed Heating Conditions. *Materials Research Society Symposia Proceedings*, **1995**, 418, 385		2
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11	Complete equation of state for shocked liquid nitrogen: Analytical developments. *Journal of Chemical Physics*, **2016**, 145, 054504	3.9	2
10	Shock compression of silver to 300 GPa: Wave profile measurements and melting transition. *Physical Review B*, **2021**, 104,	3.3	2
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8	Bound exciton luminescence in shock compressed GaP:S and GaP:N. *Journal of Applied Physics*, **2009**, 106, 023710	2.5	1
7	Band Gap Shift of GaN under Uniaxial Strain Compression. *Materials Research Society Symposia Proceedings*, **2001**, 693, 242		1
6	Elastic moduli of hexagonal diamond and cubic diamond formed under shock compression. *Physical Review B*, **2021**, 103,	3.3	1
5	Near-optimal combination of high performance and insensitivity in a shock compressed high explosive single crystal. *Journal of Applied Physics*, **2021**, 130, 015902	2.5	1
4	Sound speed measurements in lithium fluoride single crystals shock compressed to 168 GPa along [100]. *Journal of Applied Physics*, **2021**, 130, 035901	2.5	0
3	IUTAM Invited Symposium Paper Abstracts. *Applied Mechanics Reviews*, **1993**, 46, 547-562	8.6	
2	Investigation of Shock-Induced Chemical Decomposition of Sensitized Nitromethane Through Time-Resolved Raman Spectroscopy. *Materials Research Society Symposia Proceedings*, **1995**, 418, 349		
1	Peak states of molybdenum single crystals shock compressed to high stresses. *Journal of Applied Physics*, **2021**, 129, 245906	2.5	