

Thomas S Duffy

List of Publications by Year in descending order

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177
papers

10,176
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21917

59
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95
g-index

186
all docs

186
docs citations

186
times ranked

6701
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic structure and melting of Ni and FeNi_{36} up to 400 GPa. <i>Physical Review B</i> , 2024, 109, .	3.3	0
2	Ultrahigh-pressure disordered eight-coordinated phase of Mg_2GeO_4 : Analogue for super-Earth mantles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.6	4
3	Structure and density of silicon carbide to 1.5 TPa and implications for extrasolar planets. <i>Nature Communications</i> , 2022, 13, 2260.	13.2	14
4	Development of slurry targets for high repetition-rate x-ray free electron laser experiments. <i>Journal of Applied Physics</i> , 2022, 131, .	2.3	3
5	Femtosecond diffraction studies of the sodium chloride phase diagram under laser shock compression. <i>Journal of Applied Physics</i> , 2022, 132, .	2.3	3
6	X-ray source characterization and sample heating on x-ray diffraction experiments at the National Ignition Facility. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	2
7	Femtosecond X-ray Diffraction of Laser-Shocked Forsterite (Mg_2SiO_4) to 122 ÅGPa. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, .	3.4	10
8	Implications of the iron oxide phase transition on the interiors of rocky exoplanets. <i>Nature Geoscience</i> , 2021, 14, 121-126.	11.9	31
9	Polymorphism of gold under laser-based ramp compression to 690 GPa. <i>Physical Review B</i> , 2021, 103, .	3.3	12
10	Sound velocities in shock-compressed soda lime glass: Melting and liquid-state response. <i>Physical Review B</i> , 2021, 104, .	3.3	9
11	Structural response of $\hat{\pm}$ -quartz under plate-impact shock compression. <i>Science Advances</i> , 2020, 6, eabb3913.	10.9	24
12	Structure of boron carbide under laser-based shock-compression at 51 GPa. <i>AIP Conference Proceedings</i> , 2020, , .	1.0	1
13	Hugoniot states and optical response of soda lime glass shock compressed to 120%GPa. <i>Journal of Applied Physics</i> , 2020, 127, .	2.3	15
14	Phase transitions beyond post-perovskite in NaMgF_3 to 160 GPa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19324-19329.	7.6	16
15	Ultrahigh-Pressure Behavior of AO_2 (A = Sn, Pb, Hf) Compounds. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27735-27741.	3.3	6
16	observation of a phase transition in silicon carbide under shock compression using pulsed x-ray diffraction. <i>Physical Review B</i> , 2019, 99, .	3.3	18
17	Ultra-High Pressure Dynamic Compression of Geological Materials. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	67
18	Compressibility of synthetic Mg-Al tourmalines to 60 GPa. <i>American Mineralogist</i> , 2019, 104, 1005-1015.	2.4	11

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19	Sound Velocities in Shock-Synthesized Stishovite to 72 GPa. Geophysical Research Letters, 2019, 46, 13695-13703.	4.0	7
20	Crystal structure and equation of state of Fe-Si alloys at super-Earth core conditions. Science Advances, 2018, 4, eaao5864.	10.9	64
21	Equation of state of iron under core conditions of large rocky exoplanets. Nature Astronomy, 2018, 2, 452-458.	7.8	79
22	Strength and texture of sodium chloride to 56 GPa. Journal of Applied Physics, 2018, 123, .	2.3	11
23	<i>In Situ</i> X-Ray Diffraction of Shock-Compressed Fused Silica. Physical Review Letters, 2018, 120, 135702.	8.0	69
24	Phase stability of iron germanate, FeGeO ₃ , to 127 GPa. Physics and Chemistry of Minerals, 2018, 45, 367-379.	0.8	4
25	Equation of state of the phases of PbO_2 and PbO . Physical Review B, 2018, 98, .	3.3	8
26	Single-crystal elastic properties of minerals and related materials with cubic symmetry. American Mineralogist, 2018, 103, 977-988.	2.4	26
27	High-Pressure Study of Perovskites and Postperovskites in the (Mg,Fe)GeO ₃ System. Inorganic Chemistry, 2017, 56, 8026-8035.	4.2	8
28	High-pressure pair distribution function (PDF) measurement using high-energy focused x-ray beam. AIP Conference Proceedings, 2016, , .	1.0	0
29	Absolute x-ray energy calibration and monitoring using a diffraction-based method. AIP Conference Proceedings, 2016, , .	1.0	0
30	High-energy X-ray focusing and high-pressure pair distribution function measurement. AIP Conference Proceedings, 2016, , .	1.0	0
31	High-energy X-ray focusing and applications to pair distribution function investigation of Pt and Au nanoparticles at high pressures. Scientific Reports, 2016, 6, 21434.	3.4	18
32	Crystal Structures of Minerals in the Lower Mantle. Geophysical Monograph Series, 2016, , 69-87.	0.0	14
33	X-ray diffraction of molybdenum under ramp compression to 1 TPa. Physical Review B, 2016, 94, .	3.3	35
34	Electronic transitions of iron in almandine-composition glass to 91 GPa. American Mineralogist, 2016, 101, 1659-1667.	2.4	9
35	High-pressure polymorphism of PbF_2 to 75 GPa. Physical Review B, 2016, 94, .	3.3	10
36	X-ray diffraction of molybdenum under shock compression to 450 GPa. Physical Review B, 2015, 92, .	3.3	41

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37	High-pressure phase transition in $Y_3Fe_5O_{12}$. Journal of Physics Condensed Matter, 2015, 27, 405401.	1.9	7
38	Phase transitions in orthopyroxene (En90) to 49 GPa from single-crystal X-ray diffraction. Physics of the Earth and Planetary Interiors, 2015, 244, 78-86.	2.0	40
39	Crystal structure, thermal expansivity, and elasticity of OH-chondrodite: trends among dense hydrous magnesium silicates. Contributions To Mineralogy and Petrology, 2015, 169, 1.	3.1	13
40	Strength and texture of Pt compressed to 63 GPa. Journal of Applied Physics, 2015, 117, .	2.3	12
41	High-pressure phases of cordierite from single-crystal X-ray diffraction to 15 GPa. American Mineralogist, 2015, 100, 1821-1833.	2.4	12
42	Pressure-induced stiffness of Au nanoparticles to 71 GPa under quasi-hydrostatic loading. Journal of Physics Condensed Matter, 2015, 27, 485303.	1.9	14
43	Elasticity of single-crystal quartz to 10 GPa. Physics and Chemistry of Minerals, 2015, 42, 203-212.	0.8	60
44	14. Brillouin Scattering and its Application in Geosciences. , 2014, , 543-604.		4
45	The strength of ruby from X-ray diffraction under non-hydrostatic compression to 68 GPa. Physics and Chemistry of Minerals, 2014, 41, 527-535.	0.8	10
46	Brillouin Scattering and its Application in Geosciences. Reviews in Mineralogy and Geochemistry, 2014, 78, 543-603.	5.0	75
47	X-ray absorption spectroscopy of GeO_2 glass to 64 GPa. Journal of Physics Condensed Matter, 2014, 26, 035104.	1.9	29
48	Polyhedral units and network connectivity in GeO_2 glass at high pressure: An X-ray total scattering investigation. Applied Physics Letters, 2014, 105, .	3.2	22
49	Phase transitions and equation of state of forsterite to 90 GPa from single-crystal X-ray diffraction and molecular modeling. American Mineralogist, 2014, 99, 35-43.	2.4	54
50	Compression of lithium fluoride to 92 GPa. High Pressure Research, 2014, 34, 39-48.	1.2	27
51	Ramp compression of diamond to five terapascals. Nature, 2014, 511, 330-333.	36.2	199
52	Single-crystal elastic constants of magnesium difluoride (MgF_2) to 7.4 GPa. Journal of Physics and Chemistry of Solids, 2014, 75, 136-141.	4.1	9
53	Ramp compression of magnesium oxide to 234 GPa. Journal of Physics: Conference Series, 2014, 500, 062002.	0.4	4
54	Earth science: Crystallography's journey to the deep Earth. Nature, 2014, 506, 427-429.	36.2	13

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55	Ramp compression of iron to 273 GPa. <i>Journal of Applied Physics</i> , 2013, 114, .	2.3	55
56	Seismic attenuation beneath Europe and the North Atlantic: Implications for water in the mantle. <i>Earth and Planetary Science Letters</i> , 2013, 381, 1-11.	4.4	71
57	Effects of Fe-enrichment on the equation of state and stability of (Mg,Fe)SiO ₃ perovskite. <i>Earth and Planetary Science Letters</i> , 2013, 361, 249-257.	4.4	65
58	Metastable high-pressure transformations of orthoferrosilite Fs ₈₂ . <i>Physics of the Earth and Planetary Interiors</i> , 2013, 221, 15-21.	2.0	31
59	Experimental evidence for a phase transition in magnesium oxide at exoplanet pressures. <i>Nature Geoscience</i> , 2013, 6, 926-929.	11.9	174
60	Time-dependence of the alpha to epsilon phase transformation in iron. <i>Journal of Applied Physics</i> , 2013, 114, .	2.3	79
61	High-pressure X-ray absorption fine structure in the diamond anvil cell and its applications in geological materials. <i>Journal of Physics: Conference Series</i> , 2013, 430, 012120.	0.4	4
62	Absolute x-ray energy calibration over a wide energy range using a diffraction-based iterative method. <i>Review of Scientific Instruments</i> , 2012, 83, 063901.	1.4	17
63	Intercomparison of pressure standards (Au, Pt, Mo, MgO, NaCl and Ne) to 2.5 Mbar. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	65
64	Sound velocities of hydrous ringwoodite to 16GPa and 673K. <i>Earth and Planetary Science Letters</i> , 2012, 331-332, 112-119.	4.4	69
65	Correction to "Intercomparison of pressure standards (Au, Pt, Mo, MgO, NaCl and Ne) to 2.5 Mbar". <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	3
66	Synthesis and equation of state of perovskites in the (Mg, Fe) ₃ Al ₂ Si ₃ O ₁₂ system to 177 GPa. <i>Earth and Planetary Science Letters</i> , 2012, 357-358, 194-202.	4.4	18
67	Compressibility and strength of nanocrystalline tungsten boride under compression to 60%GPa. <i>Journal of Applied Physics</i> , 2012, 111, .	2.3	20
68	Probing the core's light elements. <i>Nature</i> , 2011, 479, 480-481.	36.2	10
69	Effect of hydration on the single-crystal elasticity of Fe-bearing wadsleyite to 12 GPa. <i>American Mineralogist</i> , 2011, 96, 1606-1612.	2.4	51
70	Synthesis and equation of state of post-perovskites in the (Mg,Fe) ₃ Al ₂ Si ₃ O ₁₂ system. <i>Earth and Planetary Science Letters</i> , 2011, 312, 422-428.	4.4	12
71	Thermal equation of state of CaIrO ₃ post-perovskite. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 407-417.	0.8	9
72	Raman spectra of bixbyite, Mn ₂ O ₃ , up to 40 GPa. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 685-691.	0.8	34

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91	Rietveld structure refinement of MgGeO ₃ post-perovskite phase to 1 Mbar. <i>American Mineralogist</i> , 2008, 93, 965-976.	2.4	32
92	STRENGTH OF MATERIALS UNDER STATIC LOADING IN THE DIAMOND ANVIL CELL. <i>AIP Conference Proceedings</i> , 2008, , .	1.0	9
93	Raman spectroscopy of perovskite and post-perovskite phases of MgGeO ₃ to 123 GPa. <i>Earth and Planetary Science Letters</i> , 2007, 260, 166-178.	4.4	22
94	First-principles study of density, viscosity, and diffusion coefficients of liquid MgSiO ₃ at conditions of the Earth's deep mantle. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	40
95	Single-crystal elasticity of zoisite Ca ₂ Al ₃ Si ₃ O ₁₂ (OH) by Brillouin scattering. <i>American Mineralogist</i> , 2007, 92, 570-576.	2.4	34
96	High-pressure elasticity of calcium oxide: A comparison between Brillouin spectroscopy and radial X-ray diffraction. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	37
97	Stability and equation of state of the post-perovskite phase in MgGeO ₃ to 2 Mbar. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	32
98	Single-crystal elastic properties of alunite, KAl ₃ (SO ₄) ₂ (OH) ₆ . <i>Physics and Chemistry of Minerals</i> , 2006, 33, 567-573.	0.8	20
99	Equation of state of MgGeO ₃ perovskite to 65 GPa: comparison with the post-perovskite phase. <i>Physics and Chemistry of Minerals</i> , 2006, 33, 699-709.	0.8	43
100	Single-crystal elasticity of brucite, Mg(OH) ₂ , to 15 GPa by Brillouin scattering. <i>American Mineralogist</i> , 2006, 91, 1893-1900.	2.4	59
101	Equation of state of the postperovskite phase synthesized from a natural (Mg,Fe)SiO ₃ orthopyroxene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3039-3043.	7.6	85
102	High-pressure phases in SnO ₂ to 117 GPa. <i>Physical Review B</i> , 2006, 73, .	3.3	84
103	X-ray diffraction study of the static strength of tungsten to 69 GPa. <i>Physical Review B</i> , 2006, 73, .	3.3	69
104	Synchrotron facilities and the study of the Earth's deep interior. <i>Reports on Progress in Physics</i> , 2005, 68, 1811-1859.	20.3	71
105	Tunable uniaxial vs biaxial in-plane strain using compliant substrates. <i>Applied Physics Letters</i> , 2005, 87, 061922.	3.2	19
106	Finite element simulations of the laser-heated diamond-anvil cell. <i>Journal of Applied Physics</i> , 2005, 97, 114902.	2.3	55
107	Strength, elasticity, and equation of state of the nanocrystalline cubic silicon nitride β -Si ₃ N ₄ to 68 GPa. <i>Physical Review B</i> , 2005, 72, .	3.3	45
108	X-ray diffraction study of phase stability in SiO at deep mantle conditions. <i>Earth and Planetary Science Letters</i> , 2005, 235, 273-282.	4.4	31

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109	Compositional dependence of the elastic wave velocities of mantle minerals: Implications for seismic properties of mantle rocks. Geophysical Monograph Series, 2005, , 301-320.	0.0	9
110	Compressibility and structural evolution of post-perovskite phase under pressure. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, c70-c71.	0.5	0
111	High-germanium-content SiGe islands formed on compliant oxide by SiGe oxidation. Applied Physics Letters, 2004, 84, 3624-3626.	3.2	9
112	Raman spectroscopy and x-ray diffraction of phase transitions in Cr ₂ O ₃ to 61 GPa. Physical Review B, 2004, 69, .	3.3	113
113	Single-crystal elasticity of andradite garnet to 11 GPa. Journal of Physics Condensed Matter, 2004, 16, S1041-S1052.	1.9	26
114	Deeper understanding. Nature, 2004, 430, 409-410.	36.2	12
115	Stability and crystal structure of MgSiO ₃ perovskite to the core-mantle boundary. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	104
116	Single-crystal elasticity of grossular- and almandine-rich garnets to 11 GPa by Brillouin scattering. Journal of Geophysical Research, 2004, 109, .	3.3	59
117	Single-crystal elasticity of fayalite to 12 GPa. Journal of Geophysical Research, 2004, 109, .	3.3	62
118	Strength and equation of state of boron suboxide from radial x-ray diffraction in a diamond cell under nonhydrostatic compression. Physical Review B, 2004, 70, .	3.3	85
119	Elasticity and strength of calcium silicate perovskite at lower mantle pressures. Physics of the Earth and Planetary Interiors, 2004, 143-144, 93-105.	2.0	41
120	Elasticity and rheology of platinum under high pressure and nonhydrostatic stress. Physical Review B, 2003, 68, .	3.3	36
121	Sound Velocity and Elasticity of Tetragonal Lysozyme Crystals by Brillouin Spectroscopy. Biophysical Journal, 2003, 85, 3202-3213.	0.5	74
122	Buckling suppression of SiGe islands on compliant substrates. Journal of Applied Physics, 2003, 94, 6875-6882.	2.3	32
123	Strain partition of Si/SiGe and SiO ₂ /SiGe on compliant substrates. Applied Physics Letters, 2003, 82, 3853-3855.	3.2	32
124	Relaxed SiGe Layers with High Ge Content by Compliant Substrates. Materials Research Society Symposia Proceedings, 2003, 768, 171.	0.1	1
125	Relaxed SiGe Layers with High Ge Content by Compliant Substrates. Materials Research Society Symposia Proceedings, 2003, 765, 1.	0.1	1
126	Large-grain polycrystalline silicon films with low intragranular defect density by low-temperature solid-phase crystallization without underlying oxide. Journal of Applied Physics, 2002, 91, 2910-2915.	2.3	44

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127	Strength and Elasticity of SiO ₂ across the Stishovite-CaCl ₂ -type Structural Phase Boundary. Physical Review Letters, 2002, 89, 255507.	8.0	106
128	Raman spectroscopy of Fe ₂ O ₃ to 62 GPa. American Mineralogist, 2002, 87, 318-326.	2.4	216
129	Raman spectroscopy of Co(OH) ₂ at high pressures: Implications for amorphization and hydrogen repulsion. Physical Review B, 2002, 66, .	3.3	130
130	Tetragonal structure of CaSiO ₃ perovskite above 20 GPa. Geophysical Research Letters, 2002, 29, 19-1-19-4.	4.0	97
131	Strain relaxation of SiGe islands on compliant oxide. Journal of Applied Physics, 2002, 91, 9716.	2.3	70
132	Equation of state of gold and its application to the phase boundaries near 660 km depth in Earth's mantle. Earth and Planetary Science Letters, 2002, 203, 729-739.	4.4	182
133	Single-crystal elastic constants of fluorite (CaF ₂) to 9.3 GPa. Physics and Chemistry of Minerals, 2002, 29, 465-472.	0.8	137
134	Strength and elasticity of ringwoodite at upper mantle pressures. Geophysical Research Letters, 2001, 28, 2691-2694.	4.0	55
135	Quasi-hydrostatic compression of magnesium oxide to 52 GPa: Implications for the pressure-volume-temperature equation of state. Journal of Geophysical Research, 2001, 106, 515-528.	3.3	401
136	Phase stability and density of FeS at high pressures and temperatures: implications for the interior structure of Mars. Earth and Planetary Science Letters, 2001, 185, 25-33.	4.4	66
137	The post-spinel transformation in Mg ₂ SiO ₄ and its relation to the 660-km seismic discontinuity. Nature, 2001, 411, 571-574.	36.2	153
138	Stability and Structure of MgSiO ₃ Perovskite to 2300-Kilometer Depth in Earth's Mantle. Science, 2001, 293, 2437-2440.	20.9	97
139	Pressure-volume-temperature paths in the laser-heated diamond anvil cell. Journal of Applied Physics, 2001, 89, 1907.	2.3	53
140	Constraints on the P-V-T equation of state of MgSiO ₃ perovskite. American Mineralogist, 2000, 85, 354-363.	2.4	48
141	The equation of state of CaSiO ₃ perovskite to 108 GPa at 300 K. Physics of the Earth and Planetary Interiors, 2000, 120, 327-338.	2.0	90
142	The stability and P-V-T equation of state of CaSiO ₃ perovskite in the Earth's lower mantle. Journal of Geophysical Research, 2000, 105, 25955-25968.	3.3	115
143	Lattice strains in gold and rhenium under nonhydrostatic compression to 37 GPa. Physical Review B, 1999, 60, 15063-15073.	3.3	188
144	Elasticity, shear strength, and equation of state of molybdenum and gold from x-ray diffraction under nonhydrostatic compression to 24 GPa. Journal of Applied Physics, 1999, 86, 6729-6736.	2.3	130

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145	Brillouin scattering and X-ray diffraction of San Carlos olivine: direct pressure determination to 32 GPa. <i>Earth and Planetary Science Letters</i> , 1998, 159, 25-33.	4.4	133
146	Melting and crystal structure of iron at high pressures and temperatures. <i>Geophysical Research Letters</i> , 1998, 25, 373-376.	4.0	381
147	Single-crystal elasticity of the $\hat{1}\pm$ and $\hat{1}^2$ of Mg ₂ SiO ₄ polymorphs at high pressure. <i>Geophysical Monograph Series</i> , 1998, , 9-16.	0.0	18
148	A new facility for high-pressure research at the advanced photon source. <i>Geophysical Monograph Series</i> , 1998, , 79-87.	0.0	11
149	X ray diffraction with a double hot-plate laser-heated diamond cell. <i>Geophysical Monograph Series</i> , 1998, , 27-34.	0.0	30
150	Chapter 14. PRESSURE-VOLUME-TEMPERATURE EQUATIONS OF STATE. , 1998, , 425-458.		11
151	Dynamic compression of an Fe-Cr-Ni alloy to 80 GPa. <i>Journal of Applied Physics</i> , 1997, 82, 4259-4269.	2.3	52
152	Lattice Strains in Gold and Rhenium Under Non-Hydrostatic Compression. <i>Materials Research Society Symposia Proceedings</i> , 1997, 499, 145.	0.1	0
153	Single-crystal elasticity of $\hat{1}^2$ -Mg ₂ SiO ₄ to the pressure of the 410 km seismic discontinuity in the Earth's mantle. <i>Earth and Planetary Science Letters</i> , 1997, 147, E9-E15.	4.4	117
154	Sound velocity and elasticity of single-crystal forsterite to 16 GPa. <i>Journal of Geophysical Research</i> , 1996, 101, 17535-17545.	3.3	165
155	The equation of state of forsterite to 17.2 GPa and effects of pressure media. <i>American Mineralogist</i> , 1996, 81, 51-55.	2.4	97
156	Geophysical Laboratory and Center for High-Pressure Research, Carnegie Institution of Washington. <i>Reviews of Geophysics</i> , 1995, 33, 5.	23.3	6
157	Structure and bonding in hydrous minerals at high pressure: Raman spectroscopy of alkaline earth hydroxides. <i>AIP Conference Proceedings</i> , 1995, , .	1.0	6
158	Single-crystal x-ray diffraction of brucite to 14 GPa. <i>Physics and Chemistry of Minerals</i> , 1995, 22, 277.	0.8	50
159	Shock compression and isentropic release of granite. <i>Geophysical Journal International</i> , 1995, 120, 247-261.	2.4	17
160	Elasticity of forsterite to 16 GPa and the composition of the upper mantle. <i>Nature</i> , 1995, 378, 170-173.	36.2	165
161	High-pressure phase transition in brucite, Mg(OH) ₂ . <i>American Mineralogist</i> , 1995, 80, 222-230.	2.4	143
162	Dense hydrogen in the outer solar system: Implications from recent high-pressure experiments. <i>AIP Conference Proceedings</i> , 1995, , .	1.0	0

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163	Compressional sound velocity, equation of state, and constitutive response of shock-compressed magnesium oxide. <i>Journal of Geophysical Research</i> , 1995, 100, 529-542.	3.3	100
164	Equation of State and Shear Strength at Multimegabar Pressures: Magnesium Oxide to 227 GPa. <i>Physical Review Letters</i> , 1995, 74, 1371-1374.	8.0	377
165	Shock compression and release of polycrystalline magnesium oxide. <i>AIP Conference Proceedings</i> , 1994, , .	1.0	6
166	Dynamic response of molybdenum shock compressed at 1400â€‰%Â°C. <i>Journal of Applied Physics</i> , 1994, 76, 835-842.	2.3	43
167	The temperature sensitivity of elastic wave velocity at high pressure: New results for molybdenum. <i>Geophysical Research Letters</i> , 1994, 21, 473-476.	4.0	8
168	Acoustic velocities and refractive index of SiO ₂ glass to 57.5 GPa by Brillouin scattering. <i>Physical Review B</i> , 1994, 50, 13105-13112.	3.3	227
169	Thermal expansion of mantle and core materials at very high pressures. <i>Geophysical Research Letters</i> , 1993, 20, 1103-1106.	4.0	89
170	Elasticity of hydrogen to 24 GPa from single-crystal Brillouin scattering and synchrotron x-ray diffraction. <i>Physical Review B</i> , 1993, 48, 9246-9255.	3.3	72
171	Sound velocities at high pressure and temperature and their geophysical implications. <i>Journal of Geophysical Research</i> , 1992, 97, 4503-4520.	3.3	88
172	The shock wave equation of state of brucite Mg(OH) ₂ . <i>Journal of Geophysical Research</i> , 1991, 96, 14319-14330.	3.3	54
173	Shock wave equation of state of serpentine to 150 GPa: Implications for the occurrence of water in the Earth's lower mantle. <i>Journal of Geophysical Research</i> , 1991, 96, 18011-18027.	3.3	52
174	Seismic velocities in mantle minerals and the mineralogy of the upper mantle. <i>Journal of Geophysical Research</i> , 1989, 94, 1895-1912.	3.3	563
175	Elasticity of enstatite and its relationship to crystal structure. <i>Journal of Geophysical Research</i> , 1988, 93, 383-391.	3.3	148
176	Hugoniot Sound Velocities in Metals with Applications to the Earth's Inner Core. <i>Geophysical Monograph Series</i> , 0, , 353-361.	0.0	5
177	Lateral Variations in Lower Mantle Seismic Velocity. <i>Geophysical Monograph Series</i> , 0, , 197-205.	0.0	9