

# Steven D Jacobsen

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

134  
papers

5,014  
citations

38  
h-index

66  
g-index

140  
ext. papers

5,479  
ext. citations

5.6  
avg, IF

5.41  
L-index

#	Paper	IF	Citations
134	High-pressure crystal structure and equation of state of ferromagnesian jeffbenite: implications for stability in the transition zone and uppermost lower mantle. <i>Contributions To Mineralogy and Petrology</i> , <b>2021</b> , 176, 1	3.5	0
133	Computationally Directed Discovery of MoBi. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 214-222	7.4	9
132	Highly volatile element (H, C, F, Cl, S) abundances and H isotopic compositions in chondrules from carbonaceous and ordinary chondrites. <i>Geochimica Et Cosmochimica Acta</i> , <b>2021</b> , 301, 230-258	5.5	5
131	Pressure-Induced Collapse of Magnetic Order in Jarosite. <i>Physical Review Letters</i> , <b>2020</b> , 125, 077202	7.4	0
130	Goldschmidtite, (K,REE,Sr)(Nb,Cr)O <sub>3</sub> : A new perovskite supergroup mineral found in diamond from Koffiefontein, South Africa. <i>American Mineralogist</i> , <b>2019</b> , 104, 1345-1350	2.9	3
129	Diamonds and the Mantle Geodynamics of Carbon <b>2019</b> , 89-128		7
128	Raman spectroscopy study of C-O-H-N speciation in reduced basaltic glasses: Implications for reduced planetary mantles. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 265, 32-47	5.5	18
127	High-pressure phase transitions of clinoenstatite. <i>American Mineralogist</i> , <b>2019</b> , 104, 897-904	2.9	3
126	MnBi <sub>2</sub> : A Metastable High-Pressure Phase in the MnBi System. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3083-3088	3.6	5
125	Boron-oxygen complex yields n-type surface layer in semiconducting diamond. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 7703-7711	11.5	32
124	Stability, composition, and crystal structure of Fe-bearing Phase E in the transition zone. <i>American Mineralogist</i> , <b>2019</b> , 104, 1620-1624	2.9	4
123	High-pressure synthesis of the BiVO <sub>3</sub> perovskite. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	6
122	Fast identification of mineral inclusions in diamond at GSECARS using synchrotron X-ray microtomography, radiography and diffraction. <i>Journal of Synchrotron Radiation</i> , <b>2019</b> , 26, 1763-1768	2.4	2
121	Nixonite, Na <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub> , a new mineral from a metasomatized mantle garnet pyroxenite from the western Rae Craton, Darby kimberlite field, Canada. <i>American Mineralogist</i> , <b>2019</b> , 104, 1336-1344	2.9	0
120	Controlling Dimensionality in the NiBi System with Pressure. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 955-959	9.6	4
119	Pressure-induced dehydration of diopside: A single-crystal X-ray diffraction and Raman spectroscopy study. <i>Comptes Rendus - Geoscience</i> , <b>2019</b> , 351, 121-128	1.4	
118	HyMaTZ: A Python Program for Modeling Seismic Velocities in Hydrous Regions of the Mantle Transition Zone. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2018</b> , 19, 2308-2324	3.6	11

117	Impact of Pressure on Magnetic Order in Jarosite. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 12001-12009	16.4	4
116	Transition metals in the transition zone: partitioning of Ni, Co, and Zn between olivine, wadsleyite, ringwoodite, and clinoenstatite. <i>Contributions To Mineralogy and Petrology</i> , <b>2018</b> , 173, 1	3.5	1
115	Exploring the High-Pressure Materials Genome. <i>Physical Review X</i> , <b>2018</b> , 8,	9.1	9
114	Discovery of Cu <sub>3</sub> Pb. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 12991-12995	3.6	2
113	Discovery of CuPb. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 12809-12813	16.4	3
112	High-pressure high-temperature Raman spectroscopy of kerogen: Relevance to subducted organic carbon. <i>American Mineralogist</i> , <b>2017</b> , 102, 391-403	2.9	4
111	Elastic and mechanical softening in boron-doped diamond. <i>Scientific Reports</i> , <b>2017</b> , 7, 42921	4.9	8
110	The role of ceramic and glass science research in meeting societal challenges: Report from an NSF-sponsored workshop. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 1777-1803	3.8	17
109	Creating Binary CuBi Compounds via High-Pressure Synthesis: A Combined Experimental and Theoretical Study. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5276-5285	9.6	34
108	High-pressure discovery of ENiBi. <i>Chemical Communications</i> , <b>2017</b> , 53, 11241-11244	5.8	10
107	Thermal Equation of State of Natural Ti-Bearing Clinohumite. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2017</b> , 122, 8943-8951	3.6	7
106	High-pressure behavior of natural single-crystal epidote and clinozoisite up to 40 GPa. <i>Physics and Chemistry of Minerals</i> , <b>2016</b> , 43, 649-659	1.6	12
105	Elasticity of ferropericlase and seismic heterogeneity in the Earth's lower mantle. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2016</b> , 121, 8488-8500	3.6	11
104	Ultrahard stitching of nanotwinned diamond and cubic boron nitride in C2-BN composite. <i>Scientific Reports</i> , <b>2016</b> , 6, 30518	4.9	20
103	Discovery of FeBi. <i>ACS Central Science</i> , <b>2016</b> , 2, 867-871	16.8	29
102	Anomalous density and elastic properties of basalt at high pressure: Reevaluating of the effect of melt fraction on seismic velocity in the Earth's crust and upper mantle. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2016</b> , 121, 4232-4248	3.6	18
101	Evidence for H <sub>2</sub> O-bearing fluids in the lower mantle from diamond inclusion. <i>Lithos</i> , <b>2016</b> , 265, 237-243	2.9	45
100	Water partitioning between bridgmanite and postperovskite in the lowermost mantle. <i>Earth and Planetary Science Letters</i> , <b>2016</b> , 454, 20-27	5.3	21

99	Transition metals in the transition zone: Crystal chemistry of minor element substitution in wadsleyite. <i>American Mineralogist</i> , <b>2016</b> , 101, 2322-2330	2.9	5
98	Speciation and solubility of reduced CO <sub>2</sub> /H <sub>2</sub> O volatiles in mafic melt: Implications for volcanism, atmospheric evolution, and deep volatile cycles in the terrestrial planets. <i>Geochimica Et Cosmochimica Acta</i> , <b>2015</b> , 171, 283-302	5.5	55
97	Crystal structure, thermal expansivity, and elasticity of OH-chondrodite: trends among dense hydrous magnesium silicates. <i>Contributions To Mineralogy and Petrology</i> , <b>2015</b> , 169, 1	3.5	8
96	First-principles investigation of hydrous post-perovskite. <i>Physics of the Earth and Planetary Interiors</i> , <b>2015</b> , 244, 42-48	2.3	12
95	Quantification of water in majoritic garnet. <i>American Mineralogist</i> , <b>2015</b> , 100, 1084-1092	2.9	13
94	Comparative compressibility of hydrous wadsleyite and ringwoodite: Effect of H <sub>2</sub> O and implications for detecting water in the transition zone. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2015</b> , 120, 8259-8280	3.6	19
93	Quantification of water in hydrous ringwoodite. <i>Frontiers in Earth Science</i> , <b>2015</b> , 2,	3.5	20
92	Single-crystal neutron diffraction and Raman spectroscopic study of hydroxylherderite, CaBePO <sub>4</sub> (OH,F). <i>Mineralogical Magazine</i> , <b>2014</b> , 78, 723-737	1.7	5
91	Elastic properties of transparent nano-polycrystalline diamond measured by GHz-ultrasonic interferometry and resonant sphere methods. <i>Physics of the Earth and Planetary Interiors</i> , <b>2014</b> , 228, 47-55	2.3	27
90	Earth's interior. Dehydration melting at the top of the lower mantle. <i>Science</i> , <b>2014</b> , 344, 1265-8	33.3	214
89	Mechanisms of anomalous compressibility of vitreous silica. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	12
88	Hydrogen Incorporation in Natural Mantle Olivines. <i>Geophysical Monograph Series</i> , <b>2013</b> , 45-56	1.1	13
87	Stability and equation of state of post-aragonite BaCO <sub>3</sub> . <i>Physics and Chemistry of Minerals</i> , <b>2013</b> , 40, 447-453	1.6	13
86	Nominally Anhydrous Minerals and Earth's Deep Water Cycle. <i>Geophysical Monograph Series</i> , <b>2013</b> , 1-11	1.1	30
85	Seismological Constraints on Earth's Deep Water Cycle. <i>Geophysical Monograph Series</i> , <b>2013</b> , 13-27	1.1	5
84	Influence of Hydrogen-Related Defects on the Electrical Conductivity and Plastic Deformation of Mantle Minerals: A Critical Review. <i>Geophysical Monograph Series</i> , <b>2013</b> , 113-129	1.1	21
83	Raman Spectroscopic Studies of Hydrous and Nominally Anhydrous Deep Mantle Phases. <i>Geophysical Monograph Series</i> , <b>2013</b> , 69-93	1.1	3
82	Effect of Water on the Sound Velocities of Ringwoodite in the Transition Zone. <i>Geophysical Monograph Series</i> , <b>2013</b> , 131-145	1.1	24

81	Water Content in the Mantle Transition Zone Beneath the North Pacific Derived from the Electrical Conductivity Anomaly. <i>Geophysical Monograph Series</i> , <b>2013</b> , 171-179	1.1	23
80	A Water-Rich Transition Zone Beneath the Eastern United States and Gulf of Mexico from Multiple ScS Reverberations. <i>Geophysical Monograph Series</i> , <b>2013</b> , 181-193	1.1	12
79	Towards Mapping the Three-Dimensional Distribution of Water in the Upper Mantle from Velocity and Attenuation Tomography. <i>Geophysical Monograph Series</i> , <b>2013</b> , 225-236	1.1	10
78	Towards Mapping the Three-Dimensional Distribution of Water in the Transition Zone from P-Velocity Tomography and 660-Km Discontinuity Depths. <i>Geophysical Monograph Series</i> , <b>2013</b> , 237-249	1.1	14
77	Seismic Evidence for Subduction-Transported Water in the Lower Mantle. <i>Geophysical Monograph Series</i> , <b>2013</b> , 251-261	1.1	20
76	Water in Transition Zone and Lower Mantle Minerals. <i>Geophysical Monograph Series</i> , <b>2013</b> , 57-68	1.1	11
75	Spin transition of Fe <sup>3+</sup> in Al-bearing phase D: An alternative explanation for small-scale seismic scatterers in the mid-lower mantle. <i>Earth and Planetary Science Letters</i> , <b>2013</b> , 382, 1-9	5.3	19
74	Crystal chemistry, thermal expansion, and Raman spectra of hydroxyl-clinohumite: implications for water in Earth's interior. <i>Contributions To Mineralogy and Petrology</i> , <b>2013</b> , 165, 563-574	3.5	8
73	Crystal structure, Raman and FTIR spectroscopy, and equations of state of OH-bearing MgSiO <sub>3</sub> akimotoite. <i>Contributions To Mineralogy and Petrology</i> , <b>2013</b> , 166, 1375-1388	3.5	6
72	Degassing of reduced carbon from planetary basalts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 8010-3	11.5	71
71	Elasticity of franklinite and trends for transition-metal oxide spinels. <i>American Mineralogist</i> , <b>2013</b> , 98, 601-608	2.9	11
70	Influence of Water on Major Phase Transitions in the Earth's Mantle. <i>Geophysical Monograph Series</i> , <b>2013</b> , 95-111	1.1	21
69	Compressibility and thermal expansion of hydrous ringwoodite with 2.5(3) wt% H <sub>2</sub> O. <i>American Mineralogist</i> , <b>2012</b> , 97, 573-582	2.9	37
68	Minerals in cement chemistry: A single-crystal neutron diffraction and Raman spectroscopic study of thaumasite, Ca <sub>3</sub> Si(OH) <sub>6</sub> (CO <sub>3</sub> )(SO <sub>4</sub> )·2H <sub>2</sub> O. <i>American Mineralogist</i> , <b>2012</b> , 97, 1060-1069	2.9	25
67	Sound velocities of hydrous ringwoodite to 16 GPa and 673 K. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 331-332, 112-119	5.3	54
66	Optical reflectivity of solid and liquid methane: Application to spectroscopy of Titan's hydrocarbon lakes. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	3
65	Radiative heat transfer in a hydrous mantle transition zone. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 357-358, 130-136	5.3	22
64	Elasticity of cubic boron nitride under ambient conditions. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 063521	2.5	36

63	Effect of hydration on the single-crystal elasticity of Fe-bearing wadsleyite to 12 GPa. <i>American Mineralogist</i> , <b>2011</b> , 96, 1606-1612	2.9	41
62	Microanalysis of the iron oxidation state in (Mg,Fe)O and application to the study of microscale processes. <i>Contributions To Mineralogy and Petrology</i> , <b>2011</b> , 162, 1249-1257	3.5	19
61	Elastic relaxations associated with the Pm3m-R3c transition in LaAlO(3): I. Single crystal elastic moduli at room temperature. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 035403	1.8	14
60	Resonant X-ray emission study of the lower-mantle ferropericlase at high pressures. <i>American Mineralogist</i> , <b>2010</b> , 95, 1125-1131	2.9	13
59	Velocity crossover between hydrous and anhydrous forsterite at high pressures. <i>Earth and Planetary Science Letters</i> , <b>2010</b> , 293, 250-258	5.3	44
58	Effect of H <sub>2</sub> O on upper mantle phase transitions in MgSiO <sub>3</sub> : Is the depth of the seismic X-discontinuity an indicator of mantle water content?. <i>Physics of the Earth and Planetary Interiors</i> , <b>2010</b> , 183, 234-244	2.3	26
57	Thermal conductivity of lower-mantle minerals. <i>Physics of the Earth and Planetary Interiors</i> , <b>2009</b> , 174, 24-32	2.3	66
56	Correction to Effects of hydration on the elastic properties of olivine. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	13
55	Synchrotron Mössbauer spectroscopic study of ferropericlase at high pressures and temperatures. <i>American Mineralogist</i> , <b>2009</b> , 94, 594-599	2.9	12
54	Radiative conductivity in the Earth's lower mantle. <i>Nature</i> , <b>2008</b> , 456, 231-4	50.4	80
53	Effects of hydration on the elastic properties of olivine. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	55
52	Single-crystal elasticity of wadsleyites, $\text{Mg}_2\text{SiO}_4$ , containing 0.37–1.66 wt.% H <sub>2</sub> O. <i>Earth and Planetary Science Letters</i> , <b>2008</b> , 266, 78-89	5.3	24
51	Elasticity of hydrous wadsleyite to 12 GPa: Implications for Earth's transition zone. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	52
50	The COMPRES/GSECARS gas-loading system for diamond anvil cells at the Advanced Photon Source. <i>High Pressure Research</i> , <b>2008</b> , 28, 273-292	1.6	181
49	Effects of hydration on the structure and compressibility of wadsleyite, $\text{Mg}_2\text{SiO}_4$ . <i>American Mineralogist</i> , <b>2008</b> , 93, 598-607	2.9	36
48	Elasticity of (Mg,Fe)O through the spin transition of iron in the lower mantle. <i>Science</i> , <b>2008</b> , 319, 451-3	33.3	142
47	Compression of single-crystal magnesium oxide to 118 GPa and a ruby pressure gauge for helium pressure media. <i>American Mineralogist</i> , <b>2008</b> , 93, 1823-1828	2.9	66
46	Anelasticity of Fe <sub>x</sub> O at high pressure. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 034106	3.4	6

45	Infrared properties of ferroperricite Mg <sub>1-x</sub> Fe <sub>x</sub> O: Experiment and theory. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	15
44	Electronic spin transition of iron in the Earth's deep mantle. <i>Eos</i> , <b>2007</b> , 88, 13	1.5	12
43	Correction to Sound velocities of ferroperricite in the Earth's lower mantle. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	5
42	Temperature dependence and mechanism of hydrogen incorporation in olivine at 12.5–14.0 GPa. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	35
41	Effective hydrostatic limits of pressure media for high-pressure crystallographic studies. <i>Journal of Applied Crystallography</i> , <b>2007</b> , 40, 26-32	3.8	364
40	Spin transition zone in Earth's lower mantle. <i>Science</i> , <b>2007</b> , 317, 1740-3	33.3	167
39	Sound velocities and elastic constants of ZnAl <sub>2</sub> O <sub>4</sub> spinel and implications for spinel-elasticity systematics. <i>American Mineralogist</i> , <b>2006</b> , 91, 1049-1054	2.9	38
38	Rapid magma ascent recorded by water diffusion profiles in mantle olivine. <i>Geology</i> , <b>2006</b> , 34, 429	5	217
37	Effect of Water on the Equation of State of Nominally Anhydrous Minerals. <i>Reviews in Mineralogy and Geochemistry</i> , <b>2006</b> , 62, 321-342	7.1	58
36	Pressure-induced electronic spin transition of iron in magnesiowustite-(Mg,Fe)O. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	57
35	Reduced radiative conductivity of low-spin (Mg,Fe)O in the lower mantle. <i>Science</i> , <b>2006</b> , 312, 1205-8	33.3	148
34	Single-crystal elasticity and sound velocities of (Mg <sub>0.94</sub> Fe <sub>0.06</sub> )O ferroperricite to 20 GPa. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		35
33	Sound velocities of ferroperricite in the Earth's lower mantle. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	47
32	Cation sorption on the muscovite (001) surface in chloride solutions using high-resolution X-ray reflectivity. <i>Geochimica Et Cosmochimica Acta</i> , <b>2006</b> , 70, 3549-3565	5.5	162
31	Al, Fe substitution in the MgSiO <sub>3</sub> perovskite structure: A single-crystal X-ray diffraction study. <i>Physics of the Earth and Planetary Interiors</i> , <b>2006</b> , 155, 96-103	2.3	51
30	14. Effect of Water on the Equation of State of Nominally Anhydrous Minerals <b>2006</b> , 321-342		7
29	. <i>Geophysical Monograph Series</i> , <b>2006</b> ,	1.1	17
28	A systematic study of OH in hydrous wadsleyite from polarized FTIR spectroscopy and single-crystal X-ray diffraction: Oxygen sites for hydrogen storage in Earth's interior. <i>American Mineralogist</i> , <b>2005</b> , 90, 61-70	2.9	80

27	Nanocrystalline diamond synthesized from C60. <i>Diamond and Related Materials</i> , <b>2005</b> , 14, 16-22	3.5	74
26	STRUCTURE AND CATION ORDER IN MANGANILVAITE: A COMBINED X-RAY-DIFFRACTION, NEUTRON-DIFFRACTION AND MOSSBAUER STUDY. <i>Canadian Mineralogist</i> , <b>2005</b> , 43, 1043-1053	0.7	2
25	Spin transition of iron in magnesiowüstite in the Earth's lower mantle. <i>Nature</i> , <b>2005</b> , 436, 377-80	50.4	286
24	X-ray emission spectroscopy with a laser-heated diamond anvil cell: a new experimental probe of the spin state of iron in the Earth's interior. <i>Journal of Synchrotron Radiation</i> , <b>2005</b> , 12, 637-41	2.4	13
23	Single-crystal synchrotron X-ray diffraction study of wüstite and magnesiowüstite at lower-mantle pressures. <i>Journal of Synchrotron Radiation</i> , <b>2005</b> , 12, 577-83	2.4	32
22	Structure determination by single-crystal X-ray diffraction (SXD) at megabar pressures. <i>Journal of Synchrotron Radiation</i> , <b>2005</b> , 12, 547-548	2.4	6
21	A gigahertz ultrasonic interferometer for the diamond anvil cell and high-pressure elasticity of some iron-oxide minerals <b>2005</b> , 25-48		10
20	A gigahertz ultrasonic interferometer for the diamond anvil cell and high-pressure elasticity of some iron-oxide minerals <b>2005</b> , 25-25		4
19	Powder neutron diffraction of wüstite (Fe <sub>0.93</sub> O) to 12 GPa using large moissanite anvils. <i>High Pressure Research</i> , <b>2004</b> , 24, 247-253	1.6	5
18	Pressure-induced magnetization in FeO: evidence from elasticity and Mössbauer spectroscopy. <i>Physical Review Letters</i> , <b>2004</b> , 93, 215502	7.4	51
17	Hydrogen solubility and speciation in natural, gem-quality chromian diopside. <i>American Mineralogist</i> , <b>2004</b> , 89, 941-949	2.9	72
16	Shear waves in the diamond-anvil cell reveal pressure-induced instability in (Mg,Fe)O. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 5867-71	11.5	49
15	High-pressure elasticity of a natural magnetite crystal. <i>American Mineralogist</i> , <b>2004</b> , 89, 1061-1066	2.9	62
14	Sound velocities and elastic constants of iron-bearing hydrous ringwoodite. <i>Physics of the Earth and Planetary Interiors</i> , <b>2004</b> , 143-144, 47-56	2.3	92
13	High pressure crystal chemistry of hydrous ringwoodite and water in the Earth's interior. <i>Physics of the Earth and Planetary Interiors</i> , <b>2004</b> , 143-144, 271-278	2.3	40
12	The flux growth of magnesium silicate perovskite single crystals. <i>American Mineralogist</i> , <b>2004</b> , 89, 807-811	1.9	37
11	Structural systematics of hydrous ringwoodite and water in earth's interior. <i>American Mineralogist</i> , <b>2003</b> , 88, 1402-1407	2.9	80
10	Thermal expansion of hydrated six-coordinate silicon in thaumasite, Ca <sub>3</sub> Si(OH) <sub>6</sub> (CO <sub>3</sub> )(SO <sub>4</sub> )·2H <sub>2</sub> O. <i>Physics and Chemistry of Minerals</i> , <b>2003</b> , 30, 321-329	1.6	23



9	Gigahertz ultrasonic interferometry at high P and T: new tools for obtaining a thermodynamic equation of state. <i>Journal of Physics Condensed Matter</i> , <b>2002</b> , 14, 11525-11530	1.8	18
8	Structure and elasticity of single-crystal (Mg,Fe)O and a new method of generating shear waves for gigahertz ultrasonic interferometry. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ECV 4-1		123
7	Crystal structures and compressibilities of synthetic 2M1 and 3T phengite micas. <i>European Journal of Mineralogy</i> , <b>2000</b> , 12, 955-963	2.2	54
6	Two proton positions in the very strong hydrogen bond of serandite, NaMn <sub>2</sub> [Si <sub>3</sub> O <sub>8</sub> (OH)]. <i>American Mineralogist</i> , <b>2000</b> , 85, 745-752	2.9	25
5	Compression of witherite to 8 GPa and the crystal structure of BaCO <sub>3</sub> II. <i>Physics and Chemistry of Minerals</i> , <b>2000</b> , 27, 467-473	1.6	54
4	Sound wave velocities and elastic constants for Magnesio-witherite using gigahertz interferometry. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 799-802	4.9	14
3	Comparative Crystal Chemistry of Dense Oxide Minerals. <i>Reviews in Mineralogy and Geochemistry</i> , <b>2000</b> , 41, 157-186	7.1	26
2	Comparative Crystal Chemistry of Orthosilicate Minerals. <i>Reviews in Mineralogy and Geochemistry</i> , <b>2000</b> , 41, 187-209	7.1	22
1	Crystal structure of monoclinic hydrous wadsleyite [ $\beta$ -(Mg,Fe) <sub>2</sub> SiO <sub>4</sub> ]. <i>American Mineralogist</i> , <b>1997</b> , 82, 270-275	2.9	41