

Evan Abramson

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,123
citations

361413

20
h-index

289244

40
g-index

42
all docs

42
docs citations

42
times ranked

1656
citing authors

#	ARTICLE	IF	CITATIONS
1	The elastic constants of San Carlos olivine to 17 GPa. Journal of Geophysical Research, 1997, 102, 12253-12263.	3.3	306
2	Selective vibrational excitation by stimulated emission pumping. Journal of Chemical Physics, 1981, 75, 2056-2059.	3.0	197
3	Fluorescence and stimulated emission S1 \rightarrow S0 spectra of acetylene: Regular and ergodic regions. Journal of Chemical Physics, 1985, 83, 453-465.	3.0	167
4	Experimental determination of chemical diffusion within secondary organic aerosol particles. Physical Chemistry Chemical Physics, 2013, 15, 2983.	2.8	167
5	Stimulated emission pumping of acetylene: Evidence for quantum chaotic behavior near 27 \times 10 ³ cm ⁻¹ of excitation?. Journal of Chemical Physics, 1984, 80, 2298-2300.	3.0	141
6	Evidence of quantum ergodicity in stimulated emission pumping spectra of acetylene. Journal of Chemical Physics, 1985, 83, 466-475.	3.0	112
7	Synergy between Secondary Organic Aerosols and Long-Range Transport of Polycyclic Aromatic Hydrocarbons. Environmental Science & Technology, 2012, 46, 12459-12466.	10.0	110
8	Sound Velocities in Olivine at Earth Mantle Pressures. Science, 1993, 260, 1487-1489.	12.6	102
9	Triclinic elastic constants for low albite. Physics and Chemistry of Minerals, 2006, 33, 256-265.	0.8	98
10	Equation of state of water based on speeds of sound measured in the diamond-anvil cell. Geochimica Et Cosmochimica Acta, 2004, 68, 1827-1835.	3.9	91
11	Viscosity of water measured to pressures of 6 GPa and temperatures of 300 K. Physical Review E, 2009, 80, 021201.	2.1	86
12	Excitation spectroscopy of the acetylene $\tilde{X}^1\Sigma^+$ transition in the 220 nm wavelength region. Journal of Chemical Physics, 1982, 76, 2293-2295.	3.0	51
13	Viscosity of carbon dioxide measured to a pressure of 8 GPa and temperature of 673 K. Physical Review E, 2009, 80, 021201.	2.1	47
14	APPLICATIONS OF IMPULSIVELY STIMULATED SCATTERING IN THE EARTH AND PLANETARY SCIENCES. Annual Review of Physical Chemistry, 1999, 50, 279-313.	10.8	46
15	Viscosity of nitrogen measured to pressures of 7 GPa and temperatures of 573 K. Physical Review E, 2008, 77, 041202.	2.1	45
16	The thermal diffusivity of water at high pressures and temperatures. Journal of Chemical Physics, 2001, 115, 10461.	3.0	36
17	Elasticity of calcium and calcium-sodium amphiboles. Physics of the Earth and Planetary Interiors, 2016, 261, 161-171.	1.9	36
18	Viscosity of Fluid Nitrogen to Pressures of 10 GPa. Journal of Physical Chemistry B, 2014, 118, 11792-11796.	2.6	32

#	ARTICLE	IF	CITATIONS
19	Speed of sound and equation of state for fluid oxygen to 10 GPa. Journal of Chemical Physics, 1999, 110, 10493-10497.	3.0	29
20	Melting curves of argon and methane. High Pressure Research, 2011, 31, 549-554.	1.2	21
21	Surface acoustic waves in the diamond anvil cell: An application of impulsive stimulated light scattering. Physical Review B, 2001, 64, .	3.2	19
22	A linear 1B2 state of the water molecule. Journal of Chemical Physics, 1990, 93, 947-950.	3.0	18
23	Viscosity of argon to 5 GPa and 673 K. High Pressure Research, 2011, 31, 544-548.	1.2	16
24	Elastic constants, interatomic forces, and equation of state of O_2 oxygen at high pressure. Journal of Chemical Physics, 1994, 100, 4518-4526.	3.0	15
25	Thermal diffusivity of fluid oxygen to 12 GPa and 300 K. Journal of Chemical Physics, 1999, 111, 9357-9360.	3.0	14
26	The shear viscosity of supercritical oxygen at high pressure. Journal of Chemical Physics, 2005, 122, 084501.	3.0	12
27	Viscosity of methane to 6 GPa and 673 K. Physical Review E, 2011, 84, 062201.	2.1	12
28	Water-carbon dioxide solid phase equilibria at pressures above 4 GPa. Scientific Reports, 2017, 7, 821.	3.3	12
29	The water-carbon dioxide miscibility surface to 450 K and 7 GPa. Numerische Mathematik, 2017, 317, 967-989.	1.4	12
30	Cl^{I} emission in H_2O following two-photon excitation: Dissociation dynamics in the A^1f state for different initial states. Journal of Chemical Physics, 1991, 95, 6536-6543.	3.0	10
31	MEASURED SOUND VELOCITIES OF H_2O AND CH_3OH . High Pressure Research, 2003, 23, 229-233.	1.2	9
32	IMPULSIVE STIMULATED LIGHT SCATTERING AT HIGH PRESSURE-PRECISE DETERMINATION OF ELASTIC CONSTANTS OF OPAQUE MATERIALS. High Pressure Research, 2003, 23, 373-377.	1.2	9
33	Speculation on measurements of the viscosity of shocked fluid water. Shock Waves, 2015, 25, 103-106.	1.9	9
34	Measuring Speed of Sound and Thermal Diffusivity in the Diamond-Anvil Cell. International Journal of Thermophysics, 2001, 22, 405-414.	2.1	8
35	Recovery of hexagonal Si-IV nanowires from extreme GPa pressure. Journal of Applied Physics, 2016, 119, 185902.	2.5	7
36	The thermal diffusivity tensor and lattice dynamics of O_2 oxygen at high pressure. Journal of Chemical Physics, 1996, 104, 5424-5428.	3.0	5

#	ARTICLE	IF	CITATIONS
37	Speeds of Sound in Fluid Ammonia to 3.8 GPa and 680 K. Journal of Chemical & Engineering Data, 2008, 53, 1986-1987.	1.9	4
38	Three-Phase Melting Curves in the Binary System of Carbon Dioxide and Water. Journal of Physics: Conference Series, 2017, 950, 042019.	0.4	4
39	Carbonic acid monohydrate. American Mineralogist, 2018, 103, 1468-1472.	1.9	4
40	CHAPTER 4. Viscometers. , 0, , 96-131.		3
41	Thermal Diffusivity of Methanol to a Pressure of 5 GPa. Journal of Chemical & Engineering Data, 2017, 62, 2128-2131.	1.9	1