Jennifer M Jackson

List of Publications by Year
in descending order

31 papers	1,085 citations	361413 20 h-index	414414 32 g-index
32 all docs	32 docs citations	32 times ranked	889 citing authors

#	Article	IF	Citations
1	Very low sound velocities in ironâ€rich (Mg,Fe)O: Implications for the coreâ€mantle boundary region. Geophysical Research Letters, 2010, 37, .	4.0	142
2	Sound velocities and elastic properties of Î³-Mg₂SiO₄to 873 K by Brillouin spectroscopy. American Mineralogist, 2000, 85, 296-303.	1.9	86
3	Melting of compressed iron by monitoring atomic dynamics. Earth and Planetary Science Letters, 2013, 362, 143-150.	4.4	75
4	Novel phase transition in orthoenstatite. American Mineralogist, 2004, 89, 239-244.	1.9	61
5	A geodynamic and mineral physics model of a solid-state ultralow-velocity zone. Earth and Planetary Science Letters, 2011, 303, 193-202.	4.4	60
6	Elasticity of MgSiO₃orthoenstatite. American Mineralogist, 1999, 84, 677-680.	1.9	59
7	Temperature of Earth's core constrained from melting of Fe and Fe0.9Ni0.1 at high pressures. Earth and Planetary Science Letters, 2016, 447, 72-83.	4.4	55
8	Sound velocities and elasticity of aluminous MgSiO3perovskite: Implications for aluminum heterogeneity in Earth's lower mantle. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	53
9	Sound velocity and density of magnesiowÃ¼stites: Implications for ultralowâ€velocity zone topography. Geophysical Research Letters, 2017, 44, 2148-2158.	4.0	48
10	Single-crystal elasticity and sound velocities of (Mg0.94Fe0.06)O ferropericlase to 20 GPa. Journal of Geophysical Research, 2006, 111, .	3.3	43
11	High-pressure sound velocities and elasticity of aluminous MgSiO3perovskite to 45 GPa: Implications for lateral heterogeneity in Earth's lower mantle. Geophysical Research Letters, 2005, 32, .	4.0	39
12	Rolling hills on the coreâ€“mantle boundary. Earth and Planetary Science Letters, 2013, 361, 333-342.	4.4	37
13	The First Detection of an Earthquake From a Balloon Using Its Acoustic Signature. Geophysical Research Letters, 2021, 48, e2021GL093013.	4.0	32
14	Major disruption of Dâ€³ beneath Alaska. Journal of Geophysical Research: Solid Earth, 2016, 121, 3534-3556.	3.4	26
15	Detection of Artificially Generated Seismic Signals Using Balloonâ€Borne Infrasound Sensors. Geophysical Research Letters, 2018, 45, 3393-3403.	4.0	26
16	GrÃ¼neisen parameter of hcp-Fe to 171 GPa. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	25
17	Aerial Seismology Using Balloon-Based Barometers. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 10191-10201.	6.3	25
18	Compressional behavior and spin state of Î´-(Al,Fe)OOH at high pressures. American Mineralogist, 2019, 104, 1273-1284.	1.9	22

#	Article	IF	Citations
19	Slab Control on the Northeastern Edge of the Midâ€Pacific LLSVP Near Hawaii. Geophysical Research Letters, 2019, 46, 3142-3152.	4.0	22
20	Equations of State and Anisotropy of Feâ€Niâ€Si Alloys. Journal of Geophysical Research: Solid Earth, 2018, 123, 4647-4675.	3.4	21
21	Strongly Anisotropic MagnesiowÃ¼stite in Earth's Lower Mantle. Journal of Geophysical Research: Solid Earth, 2018, 123, 4740-4750.	3.4	19
22	High pressure thermoelasticity and sound velocities of Fe-Ni-Si alloys. Physics of the Earth and Planetary Interiors, 2019, 294, 106268.	1.9	18
23	Numerical Simulation of the Atmospheric Signature of Artificial and Natural Seismic Events. Geophysical Research Letters, 2018, 45, 12,085.	4.0	17
24	Constraints on small-scale heterogeneity in the lowermost mantle from observations of near podal PcP precursors. Earth and Planetary Science Letters, 2018, 489, 267-276.	4.4	14
25	Fast temperature spectrometer for samples under extreme conditions. Review of Scientific Instruments, 2015, 86, 013105.	1.3	12
26	Single-crystal equations of state of magnesiowÃ¼stite at high pressures. American Mineralogist, 2017, 102, 1709-1717.	1.9	9
27	Strong ULVZ and Slab Interaction at the Northeastern Edge of the Pacific LLSVP Favors Plume Generation. Geochemistry, Geophysics, Geosystems, 2022, 23, .	2.5	9
28	Evaluating the Role of Iron-Rich (Mg,Fe)O in Ultralow Velocity Zones. Minerals (Basel, Switzerland), 2019, 9, 762.	2.0	8
29	Vibrational anisotropy of <i>Î²</i>-(Al,Fe)OOH single crystals as probed by nuclear resonant inelastic X-ray scattering. European Journal of Mineralogy, 2021, 33, 485-502.	1.3	6
30	Melting and phase relations of Fe-Ni-Si determined by a multi-technique approach. Earth and Planetary Science Letters, 2022, 584, 117358.	4.4	4
31	Smallâ€Scale Intraslab Heterogeneity Weakens Into the Mantle Transition Zone. Geophysical Research Letters, 2021, 48, .	4.0	2