Jessica M Warren

List of Publications by Year
in descending order

48 papers	2,674 citations	172457 29 h-index	189892 50 g-index
50 all docs	50 docs citations	50 times ranked	2014 citing authors

#	Article	IF	Citations
1	A review of mechanisms generating seismic anisotropy in the upper mantle. Physics of the Earth and Planetary Interiors, 2021, 313, 106662.	1.9	16
2	The potential for aqueous fluid-rock and silicate melt-rock interactions to re-equilibrate hydrogen in peridotite nominally anhydrous minerals. American Mineralogist, 2021, 106, 701-714.	1.9	4
3	High temperature hydrothermal alteration and amphibole formation in Gakkel Ridge abyssal peridotites. Lithos, 2021, 392-393, 106107.	1.4	3
4	Melt addition to mid-ocean ridge peridotites increases spinel Cr# with no significant effect on recorded oxygen fugacity. Earth and Planetary Science Letters, 2021, 566, 116951.	4.4	12
5	Oceanic transform fault seismicity and slip mode influenced by seawater infiltration. Nature Geoscience, 2021, 14, 606-611.	12.9	26
6	Evidence for a Deep Hydrologic Cycle on Oceanic Transform Faults. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB017751.	3.4	23
7	Fracture-mediated deep seawater flow and mantle hydration on oceanic transform faults. Earth and Planetary Science Letters, 2020, 532, 115988.	4.4	46
8	Dislocation interactions during low-temperature plasticity of olivine and their impact on the evolution of lithospheric strength. Earth and Planetary Science Letters, 2020, 543, 116349.	4.4	24
9	Using geologic structures to constrain constitutive laws not accessible in the laboratory. Journal of Structural Geology, 2019, 125, 55-63.	2.3	7
10	Evolution of the Josephine Peridotite Shear Zones: 1. Compositional Variation and Shear Initiation. Geochemistry, Geophysics, Geosystems, 2019, 20, 5765-5785.	2.5	7
11	Evolution of the Josephine Peridotite Shear Zones: 2. Influences on Olivine CPO Evolution. Journal of Geophysical Research: Solid Earth, 2019, 124, 12763-12781.	3.4	15
12	In situ measurements of lead and other trace elements in abyssal peridotite sulfides. American Mineralogist, 2019, 104, 190-206.	1.9	2
13	Intermediateâ€Depth Earthquakes Controlled by Incoming Plate Hydration Along Bendingâ€Related Faults. Geophysical Research Letters, 2019, 46, 3688-3697.	4.0	30
14	Peridotites and basalts reveal broad congruence between two independent records of mantle fO2 despite local redox heterogeneity. Earth and Planetary Science Letters, 2018, 494, 172-189.	4.4	50
15	Revisiting the electron microprobe method of spinel-olivine-orthopyroxene oxybarometry applied to spinel peridotitesk. American Mineralogist, 2017, 102, 421-435.	1.9	51
16	Comparison of thermal modeling, microstructural analysis, and T iâ€inâ€quartz thermobarometry to constrain the thermal history of a cooling pluton during deformation in the M ount A bbot Q uadrangle, CA. Geochemistry, Geophysics, Geosystems, 2017, 18, 1270-1297.	2.5	27
17	New SIMS reference materials for measuring water in upper mantle minerals. American Mineralogist, 2017, 102, 537-547.	1.9	30
18	186Osâ€“187Os and highly siderophile element abundance systematics of the mantle revealed by abyssal peridotites and Os-rich alloys. Geochimica Et Cosmochimica Acta, 2017, 200, 232-254.	3.9	104

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19	Size effects resolve discrepancies in 40 years of work on low-temperature plasticity in olivine. Science Advances, 2017, 3, e1701338.	10.3	51
20	Testing constitutive equations for brittleâ€ductile deformation associated with faulting in granitic rock. Journal of Geophysical Research: Solid Earth, 2017, 122, 6269-6293.	3.4	44
21	Forearc Peridotites from Tonga Record Heterogeneous Oxidation of the Mantle following Subduction Initiation. Journal of Petrology, 2017, 58, 1755-1780.	2.8	57
22	Olivine anisotropy suggests Gutenberg discontinuity is not the base of the lithosphere. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10503-10506.	7.1	30
23	Viscous anisotropy of textured olivine aggregates, Part 1: Measurement of the magnitude and evolution of anisotropy. Earth and Planetary Science Letters, 2016, 445, 92-103.	4.4	31
24	Viscous anisotropy of textured olivine aggregates: 2. Micromechanical model. Journal of Geophysical Research: Solid Earth, 2016, 121, 7137-7160.	3.4	10
25	Hydrothermal alteration of seafloor peridotites does not influence oxygen fugacity recorded by spinel oxybarometry. Geology, 2016, 44, 535-538.	4.4	15
26	Evidence for chemically heterogeneous Arctic mantle beneath the Gakkel Ridge. Geochimica Et Cosmochimica Acta, 2016, 174, 291-312.	3.9	51
27	Global variations in abyssal peridotite compositions. Lithos, 2016, 248-251, 193-219.	1.4	276
28	Mantle Sulfides and their Role in Reâ€“Os and Pb Isotope Geochronology. Reviews in Mineralogy and Geochemistry, 2016, 81, 579-649.	4.8	70
29	Quantifying the effect of pyroxene on deformation of peridotite in a natural shear zone. Journal of Geophysical Research: Solid Earth, 2015, 120, 2717-2738.	3.4	58
30	In-situ Pb isotopic analysis of sulfides in abyssal peridotites: New insights into heterogeneity and evolution of the oceanic upper mantle. Geology, 2014, 42, 159-162.	4.4	12
31	Pyroxenes as tracers of mantle water variations. Journal of Geophysical Research: Solid Earth, 2014, 119, 1851-1881.	3.4	107
32	Evaluation of transtension and transpression within contractional fault steps: Comparing kinematic and mechanical models to field data. Journal of Structural Geology, 2014, 60, 55-69.	2.3	41
33	Crustal shortening, exhumation, and strain localization in a collisional orogen: The Bajo PequeÃ±o Shear Zone, Sierra de Pie de Palo, Argentina. Tectonics, 2014, 33, 1277-1303.	2.8	11
34	Effect of latent heat of freezing on crustal generation at low spreading rates. Geochemistry, Geophysics, Geosystems, 2014, 15, 3161-3174.	2.5	28
35	The influence of water and LPO on the initiation and evolution of mantle shear zones. Earth and Planetary Science Letters, 2013, 375, 222-233.	4.4	47
36	Abyssal peridotites reveal the near-chondritic Fe isotopic composition of the Earth. Earth and Planetary Science Letters, 2013, 365, 63-76.	4.4	149

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37	The influence of deformation history on the interpretation of seismic anisotropy. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	41
38	Helium distribution in a mantle shear zone from the Josephine Peridotite. Earth and Planetary Science Letters, 2012, 359-360, 162-172.	4.4	13
39	Lead and osmium isotopic constraints on the oceanic mantle from single abyssal peridotite sulfides. Earth and Planetary Science Letters, 2012, 359-360, 279-293.	4.4	58
40	Mantle Melting, Melt Transport, and Delivery Beneath a Slow-Spreading Ridge: The Paleo-MAR from 23Â15'N to 23Â45'N. Journal of Petrology, 2010, 51, 425-467.	2.8	133
41	Cryptic Variations in Abyssal Peridotite Compositions: Evidence for Shallow-level Melt Infiltration in the Oceanic Lithosphere. Journal of Petrology, 2010, 51, 395-423.	2.8	79
42	Microstructural and Rheological Evolution of a Mantle Shear Zone. Journal of Petrology, 2010, 51, 43-53.	2.8	100
43	Mantle deformation and noble gases: Helium and neon in oceanic mylonites. Chemical Geology, 2009, 266, 10-18.	3.3	26
44	An assessment of upper mantle heterogeneity based on abyssal peridotite isotopic compositions. Journal of Geophysical Research, 2009, 114, .	3.3	113
45	Evolution of olivine lattice preferred orientation during simple shear in the mantle. Earth and Planetary Science Letters, 2008, 272, 501-512.	4.4	94
46	Pyroxenites from the Southwest Indian Ridge, 9-16ÂE: Cumulates from Incremental Melt Fractions Produced at the Top of a Cold Melting Regime. Journal of Petrology, 2007, 48, 647-660.	2.8	68
47	Correlation of seismic and petrologic thermometers suggests deep thermal anomalies beneath hotspots. Earth and Planetary Science Letters, 2007, 264, 308-316.	4.4	82
48	Grain size sensitive deformation mechanisms in naturally deformed peridotites. Earth and Planetary Science Letters, 2006, 248, 438-450.	4.4	299