

Jessica M Warren

List of Publications by Citations

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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.

48
papers

1,996
citations

24
h-index

44
g-index

50
ext. papers

2,338
ext. citations

4.8
avg, IF

5.62
L-index

#	Paper	IF	Citations
48	Grain size sensitive deformation mechanisms in naturally deformed peridotites. <i>Earth and Planetary Science Letters</i> , 2006 , 248, 438-450	5.3	259
47	Global variations in abyssal peridotite compositions. <i>Lithos</i> , 2016 , 248-251, 193-219	2.9	197
46	Abyssal peridotites reveal the near-chondritic Fe isotopic composition of the Earth. <i>Earth and Planetary Science Letters</i> , 2013 , 365, 63-76	5.3	111
45	Mantle Melting, Melt Transport, and Delivery Beneath a Slow-Spreading Ridge: The Paleo-MAR from 23°15'N to 23°45'N. <i>Journal of Petrology</i> , 2010 , 51, 425-467	3.9	106
44	An assessment of upper mantle heterogeneity based on abyssal peridotite isotopic compositions. <i>Journal of Geophysical Research</i> , 2009 , 114,		94
43	Microstructural and Rheological Evolution of a Mantle Shear Zone. <i>Journal of Petrology</i> , 2010 , 51, 43-53	3.9	92
42	Pyroxenes as tracers of mantle water variations. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 1851-1881	3.6	91
41	Evolution of olivine lattice preferred orientation during simple shear in the mantle. <i>Earth and Planetary Science Letters</i> , 2008 , 272, 501-512	5.3	86
40	Correlation of seismic and petrologic thermometers suggests deep thermal anomalies beneath hotspots. <i>Earth and Planetary Science Letters</i> , 2007 , 264, 308-316	5.3	73
39	¹⁸⁶ Os/ ¹⁸⁷ Os and highly siderophile element abundance systematics of the mantle revealed by abyssal peridotites and Os-rich alloys. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 200, 232-254	5.5	68
38	Cryptic Variations in Abyssal Peridotite Compositions: Evidence for Shallow-level Melt Infiltration in the Oceanic Lithosphere. <i>Journal of Petrology</i> , 2010 , 51, 395-423	3.9	65
37	Pyroxenites from the Southwest Indian Ridge, 9-16°E: Cumulates from Incremental Melt Fractions Produced at the Top of a Cold Melting Regime. <i>Journal of Petrology</i> , 2007 , 48, 647-660	3.9	60
36	Lead and osmium isotopic constraints on the oceanic mantle from single abyssal peridotite sulfides. <i>Earth and Planetary Science Letters</i> , 2012 , 359-360, 279-293	5.3	52
35	Quantifying the effect of pyroxene on deformation of peridotite in a natural shear zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 2717-2738	3.6	47
34	Mantle Sulfides and their Role in Re/Os and Pb Isotope Geochronology. <i>Reviews in Mineralogy and Geochemistry</i> , 2016 , 81, 579-649	7.1	43
33	The influence of water and LPO on the initiation and evolution of mantle shear zones. <i>Earth and Planetary Science Letters</i> , 2013 , 375, 222-233	5.3	41
32	Forearc Peridotites from Tonga Record Heterogeneous Oxidation of the Mantle following Subduction Initiation. <i>Journal of Petrology</i> , 2017 , 58, 1755-1780	3.9	39

31	The influence of deformation history on the interpretation of seismic anisotropy. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, n/a-n/a	3.6	37
30	Evidence for chemically heterogeneous Arctic mantle beneath the Gakkel Ridge. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 174, 291-312	5.5	36
29	Revisiting the electron microprobe method of spinel-olivine-orthopyroxene oxybarometry applied to spinel peridotites. <i>American Mineralogist</i> , 2017 , 102, 421-435	2.9	35
28	Peridotites and basalts reveal broad congruence between two independent records of mantle fO ₂ despite local redox heterogeneity. <i>Earth and Planetary Science Letters</i> , 2018 , 494, 172-189	5.3	35
27	Size effects resolve discrepancies in 40 years of work on low-temperature plasticity in olivine. <i>Science Advances</i> , 2017 , 3, e1701338	14.3	34
26	Viscous anisotropy of textured olivine aggregates, Part 1: Measurement of the magnitude and evolution of anisotropy. <i>Earth and Planetary Science Letters</i> , 2016 , 445, 92-103	5.3	27
25	Olivine anisotropy suggests Gutenberg discontinuity is not the base of the lithosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10503-6	11.5	26
24	Fracture-mediated deep seawater flow and mantle hydration on oceanic transform faults. <i>Earth and Planetary Science Letters</i> , 2020 , 532, 115988	5.3	24
23	Mantle deformation and noble gases: Helium and neon in oceanic mylonites. <i>Chemical Geology</i> , 2009 , 266, 10-18	4.2	21
22	New SIMS reference materials for measuring water in upper mantle minerals. <i>American Mineralogist</i> , 2017 , 102, 537-547	2.9	19
21	Effect of latent heat of freezing on crustal generation at low spreading rates. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 3161-3174	3.6	17
20	Testing constitutive equations for brittle-ductile deformation associated with faulting in granitic rock. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 6269-6293	3.6	16
19	Intermediate-Depth Earthquakes Controlled by Incoming Plate Hydration Along Bending-Related Faults. <i>Geophysical Research Letters</i> , 2019 , 46, 3688-3697	4.9	15
18	Evaluation of transtension and transpression within contractional fault steps: Comparing kinematic and mechanical models to field data. <i>Journal of Structural Geology</i> , 2014 , 60, 55-69	3	15
17	Helium distribution in a mantle shear zone from the Josephine Peridotite. <i>Earth and Planetary Science Letters</i> , 2012 , 359-360, 162-172	5.3	12
16	Dislocation interactions during low-temperature plasticity of olivine and their impact on the evolution of lithospheric strength. <i>Earth and Planetary Science Letters</i> , 2020 , 543, 116349	5.3	10
15	Evolution of the Josephine Peridotite Shear Zones: 2. Influences on Olivine CPO Evolution. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 12763-12781	3.6	10
14	In-situ Pb isotopic analysis of sulfides in abyssal peridotites: New insights into heterogeneity and evolution of the oceanic upper mantle. <i>Geology</i> , 2014 , 42, 159-162	5	10

13	Hydrothermal alteration of seafloor peridotites does not influence oxygen fugacity recorded by spinel oxybarometry. <i>Geology</i> , 2016 , 44, 535-538	5	9
12	Viscous anisotropy of textured olivine aggregates: 2. Micromechanical model. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 7137-7160	3.6	9
11	Evidence for a Deep Hydrologic Cycle on Oceanic Transform Faults. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB017751	3.6	9
10	Crustal shortening, exhumation, and strain localization in a collisional orogen: The Bajo Pequeño Shear Zone, Sierra de Pie de Palo, Argentina. <i>Tectonics</i> , 2014 , 33, 1277-1303	4.3	8
9	Comparison of thermal modeling, microstructural analysis, and Ti-in-quartz thermobarometry to constrain the thermal history of a cooling pluton during deformation in the Mount Abbot Quadrangle, CA. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 1270-1297	3.6	6
8	Oceanic transform fault seismicity and slip mode influenced by seawater infiltration. <i>Nature Geoscience</i> , 2021 , 14, 606-611	18.3	6
7	Using geologic structures to constrain constitutive laws not accessible in the laboratory. <i>Journal of Structural Geology</i> , 2019 , 125, 55-63	3	5
6	Melt addition to mid-ocean ridge peridotites increases spinel Cr# with no significant effect on recorded oxygen fugacity. <i>Earth and Planetary Science Letters</i> , 2021 , 566, 116951	5.3	5
5	Evolution of the Josephine Peridotite Shear Zones: 1. Compositional Variation and Shear Initiation. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 5765-5785	3.6	4
4	A review of mechanisms generating seismic anisotropy in the upper mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2021 , 313, 106662	2.3	4
3	The potential for aqueous fluid-rock and silicate melt-rock interactions to re-equilibrate hydrogen in peridotite nominally anhydrous minerals. <i>American Mineralogist</i> , 2021 , 106, 701-714	2.9	3
2	In situ measurements of lead and other trace elements in abyssal peridotite sulfides. <i>American Mineralogist</i> , 2019 , 104, 190-206	2.9	2
1	High temperature hydrothermal alteration and amphibole formation in Gakkel Ridge abyssal peridotites. <i>Lithos</i> , 2021 , 392-393, 106107	2.9	