

Jessica M Warren

List of Publications by Year in descending order

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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	Grain size sensitive deformation mechanisms in naturally deformed peridotites. <i>Earth and Planetary Science Letters</i> , 2006, 248, 438-450.	4.4	299
2	Global variations in abyssal peridotite compositions. <i>Lithos</i> , 2016, 248-251, 193-219.	1.4	276
3	Abyssal peridotites reveal the near-chondritic Fe isotopic composition of the Earth. <i>Earth and Planetary Science Letters</i> , 2013, 365, 63-76.	4.4	149
4	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.	2.8	133
5	An assessment of upper mantle heterogeneity based on abyssal peridotite isotopic compositions. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	113
6	Pyroxenes as tracers of mantle water variations. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1851-1881.	3.4	107
7	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.	3.9	104
8	Microstructural and Rheological Evolution of a Mantle Shear Zone. <i>Journal of Petrology</i> , 2010, 51, 43-53.	2.8	100
9	Evolution of olivine lattice preferred orientation during simple shear in the mantle. <i>Earth and Planetary Science Letters</i> , 2008, 272, 501-512.	4.4	94
10	Correlation of seismic and petrologic thermometers suggests deep thermal anomalies beneath hotspots. <i>Earth and Planetary Science Letters</i> , 2007, 264, 308-316.	4.4	82
11	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.	2.8	79
12	Mantle Sulfides and their Role in Re-Os and Pb Isotope Geochronology. <i>Reviews in Mineralogy and Geochemistry</i> , 2016, 81, 579-649.	4.8	70
13	Pyroxenites from the Southwest Indian Ridge, 9-16°S: Cumulates from Incremental Melt Fractions Produced at the Top of a Cold Melting Regime. <i>Journal of Petrology</i> , 2007, 48, 647-660.	2.8	68
14	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.	4.4	58
15	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.	3.4	58
16	Forearc Peridotites from Tonga Record Heterogeneous Oxidation of the Mantle following Subduction Initiation. <i>Journal of Petrology</i> , 2017, 58, 1755-1780.	2.8	57
17	Evidence for chemically heterogeneous Arctic mantle beneath the Gakkel Ridge. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 174, 291-312.	3.9	51
18	Revisiting the electron microprobe method of spinel-olivine-orthopyroxene oxybarometry applied to spinel peridotites. <i>American Mineralogist</i> , 2017, 102, 421-435.	1.9	51

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19	Size effects resolve discrepancies in 40 years of work on low-temperature plasticity in olivine. <i>Science Advances</i> , 2017, 3, e1701338.	10.3	51
20	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.	4.4	50
21	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.	4.4	47
22	Fracture-mediated deep seawater flow and mantle hydration on oceanic transform faults. <i>Earth and Planetary Science Letters</i> , 2020, 532, 115988.	4.4	46
23	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.	3.4	44
24	The influence of deformation history on the interpretation of seismic anisotropy. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	41
25	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.	2.3	41
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.	4.4	31
27	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, 10503-10506.	7.1	30
28	New SIMS reference materials for measuring water in upper mantle minerals. <i>American Mineralogist</i> , 2017, 102, 537-547.	1.9	30
29	Intermediate-Depth Earthquakes Controlled by Incoming Plate Hydration Along Bending-Related Faults. <i>Geophysical Research Letters</i> , 2019, 46, 3688-3697.	4.0	30
30	Effect of latent heat of freezing on crustal generation at low spreading rates. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 3161-3174.	2.5	28
31	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 Diablo Quadrangle, CA. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 1270-1297.	2.5	27
32	Mantle deformation and noble gases: Helium and neon in oceanic mylonites. <i>Chemical Geology</i> , 2009, 266, 10-18.	3.3	26
33	Oceanic transform fault seismicity and slip mode influenced by seawater infiltration. <i>Nature Geoscience</i> , 2021, 14, 606-611.	12.9	26
34	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.	4.4	24
35	Evidence for a Deep Hydrologic Cycle on Oceanic Transform Faults. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB017751.	3.4	23
36	A review of mechanisms generating seismic anisotropy in the upper mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2021, 313, 106662.	1.9	16

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37	Hydrothermal alteration of seafloor peridotites does not influence oxygen fugacity recorded by spinel oxybarometry. <i>Geology</i> , 2016, 44, 535-538.	4.4	15
38	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.	3.4	15
39	Helium distribution in a mantle shear zone from the Josephine Peridotite. <i>Earth and Planetary Science Letters</i> , 2012, 359-360, 162-172.	4.4	13
40	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.	4.4	12
41	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.	4.4	12
42	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.	2.8	11
43	Viscous anisotropy of textured olivine aggregates: 2. Micromechanical model. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 7137-7160.	3.4	10
44	Using geologic structures to constrain constitutive laws not accessible in the laboratory. <i>Journal of Structural Geology</i> , 2019, 125, 55-63.	2.3	7
45	Evolution of the Josephine Peridotite Shear Zones: 1. Compositional Variation and Shear Initiation. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 5765-5785.	2.5	7
46	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.	1.9	4
47	High temperature hydrothermal alteration and amphibole formation in Gakkel Ridge abyssal peridotites. <i>Lithos</i> , 2021, 392-393, 106107.	1.4	3
48	In situ measurements of lead and other trace elements in abyssal peridotite sulfides. <i>American Mineralogist</i> , 2019, 104, 190-206.	1.9	2