

Susannah Dorfman

List of Publications by Year in descending order

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28
papers

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858243

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29
all docs

29
docs citations

29
times ranked

861
citing authors

#	ARTICLE	IF	CITATIONS
1	Multidisciplinary Constraints on the Thermal-Chemical Boundary Between Earth's Core and Mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	1.0	15
2	Control of deviatoric stress in the diamond anvil cell through thermal expansion mismatch stress in thin films. <i>Physics and Chemistry of Minerals</i> , 2022, 49, 1.	0.3	1
3	Iron force constants of bridgmanite at high pressure: Implications for iron isotope fractionation in the deep mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 294, 215-231.	1.6	5
4	Reversal of carbonate-silicate cation exchange in cold slabs in Earth's lower mantle. <i>Nature Communications</i> , 2021, 12, 1712.	5.8	13
5	Formation of large low shear velocity provinces through the decomposition of oxidized mantle. <i>Nature Communications</i> , 2021, 12, 1911.	5.8	11
6	Composition and Pressure Effects on Partitioning of Ferrous Iron in Iron-Rich Lower Mantle Heterogeneities. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 512.	0.8	3
7	Strength, deformation, and equation of state of tungsten carbide to 66 GPa. <i>Acta Materialia</i> , 2021, 220, 117301.	3.8	2
8	Global variations of Earth's 520- and 560-km discontinuities. <i>Earth and Planetary Science Letters</i> , 2020, 552, 116600.	1.8	15
9	Spin Transitions and Compressibility of Fe^{7+} and Fe^{4+} : Implications for Iron Alloys in Terrestrial Planet Cores. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020660.	1.4	4
10	Thermal equation of state of post-aragonite CaCO_3 -Pmmn. <i>American Mineralogist</i> , 2020, 105, 1365-1374.	0.9	4
11	Effects of composition and pressure on electronic states of iron in bridgmanite. <i>American Mineralogist</i> , 2020, 105, 1030-1039.	0.9	7
12	Deep Earth carbon reactions through time and space. <i>American Mineralogist</i> , 2020, 105, 22-27.	0.9	5
13	Correlation between the wafer curvature and fluorescence of pulsed laser deposited ruby thin films stressed to $\sim 4\%$ GPa. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	4
14	Carbonate stability in the reduced lower mantle. <i>Earth and Planetary Science Letters</i> , 2018, 489, 84-91.	1.8	50
15	Valence and spin states of iron are invisible in Earth's lower mantle. <i>Nature Communications</i> , 2018, 9, 1284.	5.8	35
16	Primordial metallic melt in the deep mantle. <i>Geophysical Research Letters</i> , 2016, 43, 3693-3699.	1.5	35
17	Electronic transitions of iron in almandine-composition glass to 91 GPa. <i>American Mineralogist</i> , 2016, 101, 1659-1667.	0.9	9
18	Strength and texture of Pt compressed to 63% GPa. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	12

#	ARTICLE	IF	CITATIONS
19	Composition dependence of spin transition in (Mg,Fe)SiO ₃ bridgmanite. American Mineralogist, 2015, 100, 2246-2253.	0.9	16
20	The strength of ruby from X-ray diffraction under non-hydrostatic compression to 68ÅGPa. Physics and Chemistry of Minerals, 2014, 41, 527-535.	0.3	10
21	Compression of lithium fluoride to 92ÅGPa. High Pressure Research, 2014, 34, 39-48.	0.4	26
22	Effect of Fe-enrichment on seismic properties of perovskite and post-perovskite in the deep lower mantle. Geophysical Journal International, 2014, 197, 910-919.	1.0	25
23	Effects of Fe-enrichment on the equation of state and stability of (Mg,Fe)SiO ₃ perovskite. Earth and Planetary Science Letters, 2013, 361, 249-257.	1.8	61
24	Synthesis and equation of state of perovskites in the (Mg, Fe)3Al2Si3O12 system to 177 GPa. Earth and Planetary Science Letters, 2012, 357-358, 194-202.	1.8	17
25	Compressibility and strength of nanocrystalline tungsten boride under compression to 60ÅGPa. Journal of Applied Physics, 2012, 111, .	1.1	20
26	Synthesis and equation of state of post-perovskites in the (Mg,Fe)3Al2Si3O12 system. Earth and Planetary Science Letters, 2011, 312, 422-428.	1.8	12
27	Phase transitions and equations of state of alkaline earth fluorides CaF_2 SrF_2 Physical Review B, 2010, 81, .	1.1	62
28	Loss of immiscible nitrogen from metallic melt explains Earth's missing nitrogen. Geochemical Perspectives Letters, 0, , 18-22.	1.0	8