

James W E Drewitt

List of Publications by Year in Descending Order

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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.

33
papers

897
citations

17
h-index

29
g-index

34
ext. papers

1,028
ext. citations

5.2
avg, IF

3.8
L-index

#	Paper	IF	Citations
33	Hydrous silicate melts and the deep mantle H ₂ O cycle. <i>Earth and Planetary Science Letters</i> , 2022 , 581, 117408	5.3	0
32	Structure of levitated Si-Ge melts studied by high-energy x-ray diffraction in combination with reverse Monte Carlo simulations. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	2
31	Internal resistive heating of non-metallic samples to 3000 K and >60 GPa in the diamond anvil cell. <i>Review of Scientific Instruments</i> , 2021 , 92, 063904	1.7	1
30	Liquid structure under extreme conditions: high-pressure x-ray diffraction studies. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	1
29	Structural Ordering in Liquid Gallium under Extreme Conditions. <i>Physical Review Letters</i> , 2020 , 124, 145504	7.0	14
28	The HXD95: a modified Bassett-type hydrothermal diamond-anvil cell for in situ XRD experiments up to 5 GPa and 1300 K. <i>Journal of Synchrotron Radiation</i> , 2020 , 27, 529-537	2.4	10
27	From Molten Calcium Aluminates through Phase Transitions to Cement Phases. <i>Advanced Science</i> , 2020 , 7, 1902209	13.6	8
26	In situ observation of nanolite growth in volcanic melt: A driving force for explosive eruptions. <i>Science Advances</i> , 2020 , 6,	14.3	28
25	The fate of carbonate in oceanic crust subducted into earth's lower mantle. <i>Earth and Planetary Science Letters</i> , 2019 , 511, 213-222	5.3	17
24	Configurational constraints on glass formation in the liquid calcium aluminate system. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019 , 2019, 104012	1.9	3
23	CO network formation in ultra-high pressure carbonate liquids. <i>Scientific Reports</i> , 2019 , 9, 15416	4.9	5
22	Structure and dynamics of high-temperature strontium aluminosilicate melts. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 27865-27877	3.6	11
21	Lutetium incorporation in magmas at depth: Changes in melt local environment and the influence on partitioning behaviour. <i>Earth and Planetary Science Letters</i> , 2017 , 464, 155-165	5.3	11
20	Structure of liquid tricalcium aluminate. <i>Physical Review B</i> , 2017 , 95,	3.3	9
19	Structure of rare-earth chalcogenide glasses by neutron and x-ray diffraction. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 225703	1.8	3
18	Neutron diffraction of calcium aluminosilicate glasses and melts. <i>Journal of Non-Crystalline Solids</i> , 2016 , 451, 89-93	3.9	36
17	Neutron diffraction as a probe of liquid and glass structures under extreme conditions. <i>Neutron News</i> , 2016 , 27, 22-26	0.4	1

16	Development of chemical and topological structure in aluminosilicate liquids and glasses at high pressure. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 105103	1.8	35
15	High-pressure transformation of SiO ₂ glass from a tetrahedral to an octahedral network: a joint approach using neutron diffraction and molecular dynamics. <i>Physical Review Letters</i> , 2014 , 113, 135501	7.4	85
14	Structure and density of molten fayalite at high pressure. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 118, 118-128	5.5	47
13	Structural change in molten basalt at deep mantle conditions. <i>Nature</i> , 2013 , 503, 104-7	50.4	120
12	Structure of (Fe _x Ca _{1-x} O) _y (SiO ₂) _{1-y} liquids and glasses from high-energy x-ray diffraction: Implications for the structure of natural basaltic magmas. <i>Physical Review B</i> , 2013 , 87,	3.3	35
11	Density-driven structural transformations in network forming glasses: a high-pressure neutron diffraction study of GeO ₂ glass up to 17.5 GPa. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 415102	1.8	39
10	The structure of liquid calcium aluminates as investigated by neutron and high-energy x-ray diffraction in combination with molecular dynamics simulation methods. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 099501	1.8	4
9	Interplay between non-bridging oxygen, triclusters, and fivefold Al coordination in low silica content calcium aluminosilicate melts. <i>Applied Physics Letters</i> , 2012 , 101, 201903	3.4	70
8	Mechanisms of network collapse in GeO ₂ glass: high-pressure neutron diffraction with isotope substitution as arbitrator of competing models. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 502101	1.8	31
7	Structural transformations on vitrification in the fragile glass-forming system CaAl ₂ O ₄ . <i>Physical Review Letters</i> , 2012 , 109, 235501	7.4	45
6	Structure and triclustering in Ba-Al-O glass. <i>Physical Review B</i> , 2012 , 85,	3.3	34
5	The structure of liquid calcium aluminates as investigated using neutron and high energy x-ray diffraction in combination with molecular dynamics simulation methods. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 155101	1.8	34
4	Aerodynamic levitation and laser heating:. <i>European Physical Journal: Special Topics</i> , 2011 , 196, 151-165	2.3	40
3	Structure of GeO ₂ glass at pressures up to 8.6 GPa. <i>Physical Review B</i> , 2010 , 81,	3.3	55
2	The structure of molten CuCl, CuI and their mixtures as investigated by using neutron diffraction. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 075104	1.8	5
1	Establishing the structure of GeS(2) at high pressures and temperatures: a combined approach using x-ray and neutron diffraction. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 474217	1.8	53