

# James W E Drewitt

## List of Publications by Citations

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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	Structural change in molten basalt at deep mantle conditions. <i>Nature</i> , <b>2013</b> , 503, 104-7	50.4	120
32	High-pressure transformation of SiO <sub>2</sub> glass from a tetrahedral to an octahedral network: a joint approach using neutron diffraction and molecular dynamics. <i>Physical Review Letters</i> , <b>2014</b> , 113, 135501	7.4	85
31	Interplay between non-bridging oxygen, triclusters, and fivefold Al coordination in low silica content calcium aluminosilicate melts. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 201903	3.4	70
30	Structure of GeO <sub>2</sub> glass at pressures up to 8.6 GPa. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	55
29	Establishing the structure of GeS <sub>2</sub> at high pressures and temperatures: a combined approach using x-ray and neutron diffraction. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 474217	1.8	53
28	Structure and density of molten fayalite at high pressure. <i>Geochimica Et Cosmochimica Acta</i> , <b>2013</b> , 118, 118-128	5.5	47
27	Structural transformations on vitrification in the fragile glass-forming system CaAl <sub>2</sub> O <sub>4</sub> . <i>Physical Review Letters</i> , <b>2012</b> , 109, 235501	7.4	45
26	Aerodynamic levitation and laser heating:. <i>European Physical Journal: Special Topics</i> , <b>2011</b> , 196, 151-165	2.3	40
25	Density-driven structural transformations in network forming glasses: a high-pressure neutron diffraction study of GeO <sub>2</sub> glass up to 17.5 GPa. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 415102	1.8	39
24	Neutron diffraction of calcium aluminosilicate glasses and melts. <i>Journal of Non-Crystalline Solids</i> , <b>2016</b> , 451, 89-93	3.9	36
23	Development of chemical and topological structure in aluminosilicate liquids and glasses at high pressure. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 105103	1.8	35
22	Structure of (FexCa <sub>1-x</sub> O) <sub>y</sub> (SiO <sub>2</sub> ) <sub>1-y</sub> liquids and glasses from high-energy x-ray diffraction: Implications for the structure of natural basaltic magmas. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	35
21	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> , <b>2011</b> , 23, 155101	1.8	34
20	Structure and triclustering in Ba-Al-O glass. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	34
19	Mechanisms of network collapse in GeO <sub>2</sub> glass: high-pressure neutron diffraction with isotope substitution as arbitrator of competing models. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 502101	1.8	31
18	In situ observation of nanolite growth in volcanic melt: A driving force for explosive eruptions. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	28
17	The fate of carbonate in oceanic crust subducted into earth's lower mantle. <i>Earth and Planetary Science Letters</i> , <b>2019</b> , 511, 213-222	5.3	17

16	Structural Ordering in Liquid Gallium under Extreme Conditions. <i>Physical Review Letters</i> , <b>2020</b> , 124, 145504	14
15	Lutetium incorporation in magmas at depth: Changes in melt local environment and the influence on partitioning behaviour. <i>Earth and Planetary Science Letters</i> , <b>2017</b> , 464, 155-165	5.3 11
14	Structure and dynamics of high-temperature strontium aluminosilicate melts. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 27865-27877	3.6 11
13	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> , <b>2020</b> , 27, 529-537	2.4 10
12	Structure of liquid tricalcium aluminate. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3 9
11	From Molten Calcium Aluminates through Phase Transitions to Cement Phases. <i>Advanced Science</i> , <b>2020</b> , 7, 1902209	13.6 8
10	CO network formation in ultra-high pressure carbonate liquids. <i>Scientific Reports</i> , <b>2019</b> , 9, 15416	4.9 5
9	The structure of molten CuCl, CuI and their mixtures as investigated by using neutron diffraction. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 075104	1.8 5
8	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> , <b>2012</b> , 24, 099501	1.8 4
7	Structure of rare-earth chalcogenide glasses by neutron and x-ray diffraction. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 225703	1.8 3
6	Configurational constraints on glass formation in the liquid calcium aluminate system. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2019</b> , 2019, 104012	1.9 3
5	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> , <b>2021</b> , 33,	1.8 2
4	Internal resistive heating of non-metallic samples to 3000 K and >60 GPa in the diamond anvil cell. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 063904	1.7 1
3	Neutron diffraction as a probe of liquid and glass structures under extreme conditions. <i>Neutron News</i> , <b>2016</b> , 27, 22-26	0.4 1
2	Liquid structure under extreme conditions: high-pressure x-ray diffraction studies. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33,	1.8 1
1	Hydrous silicate melts and the deep mantle H <sub>2</sub> O cycle. <i>Earth and Planetary Science Letters</i> , <b>2022</b> , 581, 117408	5.3 0