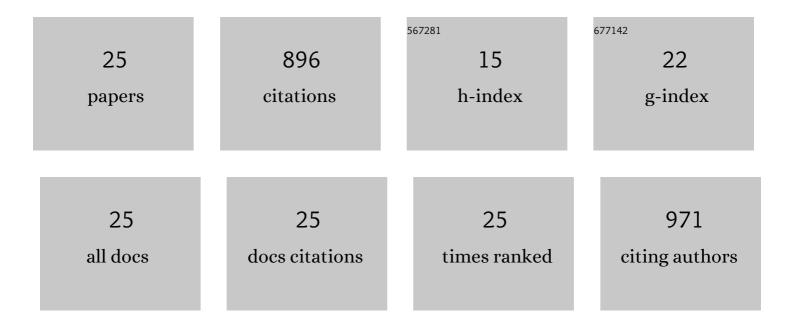
Heather C Watson

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A multi-faceted experimental study on the dynamic behavior of MgSiO3 glass in the Earth's deep interior. American Mineralogist, 2022, 107, 1313-1324.	1.9	2
2	Compression of porous aluminum: combined ultrasonic and microtomography measurements with lattice-Boltzmann permeability simulations. High Pressure Research, 2019, 39, 438-456.	1.2	0
3	A Paris-Edinburgh Cell for High-Pressure and High-Temperature Structure Studies on Silicate Liquids Using Monochromatic Synchrotron Radiation. Minerals (Basel, Switzerland), 2019, 9, 715.	2.0	7
4	Undergraduate Research and Training in Ion-Beam Analysis of Environmental Materials. Physics Procedia, 2017, 90, 344-353.	1.2	0
5	The effects of shear deformation on planetesimal core segregation: Results from in-situ X-ray micro-tomography. American Mineralogist, 2016, 101, 1996-2004.	1.9	12
6	Iron and nickel isotope fractionation by diffusion, with applications to iron meteorites. Earth and Planetary Science Letters, 2016, 451, 159-167.	4.4	15
7	How to make a planet: An introduction: Figure 1. American Mineralogist, 2015, 100, 1093-1097.	1.9	3
8	<mml:math <br="" altimg="si1.gif" xmlns:mml="http://www.w3.org/1998/Math/MathML">overflow="scroll"><mml:mo stretchy="false">(<mml:mtext>Fe</mml:mtext><mml:mo>,</mml:mo><mml:mtext>Al<td>><mainal:mo< td=""><td>) TjilETQq0 0 (</td></mainal:mo<></td></mml:mtext></mml:mo </mml:math>	> <mainal:mo< td=""><td>) TjilETQq0 0 (</td></mainal:mo<>) TjilETQq0 0 (
9	and Planetary Science Letters, 2014, 403, 157-165. Spin and valence states of iron in Al-bearing silicate glass at high pressures studied by synchrotron Mossbauer and X-ray emission spectroscopy. American Mineralogist, 2014, 99, 415-423.	1.9	35
10	Iron-rich perovskite in the Earth's lower mantle. Earth and Planetary Science Letters, 2011, 309, 179-184.	4.4	41
11	Connectivity of core forming melts: Experimental constraints from electrical conductivity and X-ray tomography. Physics of the Earth and Planetary Interiors, 2011, 186, 172-182.	1.9	31
12	In situ high-pressure and high-temperature X-ray microtomographic imaging during large deformation: A new technique for studying mechanical behavior of multiphase composites. , 2011, 7, 40-53.		25
13	High-pressure X-ray diffraction and X-ray emission studies on iron-bearing silicate perovskite under high pressures. High Pressure Research, 2010, 30, 230-237.	1.2	10
14	Effect of conductive impurities on electrical conductivity in polycrystalline olivine. Geophysical Research Letters, 2010, 37, .	4.0	68
15	The iron–nickel–phosphorus system: Effects on the distribution of trace elements during the evolution of iron meteorites. Geochimica Et Cosmochimica Acta, 2009, 73, 2674-2691.	3.9	35
16	Density profile of pyrolite under the lower mantle conditions. Geophysical Research Letters, 2009, 36,	4.0	70
17	Intermediate-spin ferrous iron in lowermost mantle post-perovskite and perovskite. Nature Geoscience, 2008, 1, 688-691.	12.9	131
18	Thermal history, partial preservation and sampling bias recorded by Stardust cometary grains during their capture. Farth and Planetary Science Letters, 2008, 273, 195-202	4.4	32

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#	Article	IF	CITATIONS
19	Diffusion of Au, Pd, Re, and P in FeNi alloys at High Pressure. Geochimica Et Cosmochimica Acta, 2008, 72, 3550-3561.	3.9	6
20	The Fe–C system at 5GPa and implications for Earth's core. Geochimica Et Cosmochimica Acta, 2008, 72, 4146-4158.	3.9	48
21	Spin transition and equations of state of (Mg, Fe)O solid solutions. Geophysical Research Letters, 2007, 34, .	4.0	152
22	Experimental quantification of the fractionation of Fe isotopes during metal segregation from a silicate melt. Earth and Planetary Science Letters, 2006, 248, 851-867.	4.4	64
23	Thermoelastic properties of (Mg0.64Fe0.36)O ferropericlase based on in situ X-ray diffraction to 26.7GPa and 2173K. Physics of the Earth and Planetary Interiors, 2005, 151, 163-176.	1.9	38
24	Assessment of temperature gradients in multianvil assemblies using spinel layer growth kinetics. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	36
25	Siderophile trace element diffusion in Fe–Ni alloys. Physics of the Earth and Planetary Interiors, 2003, 139, 65-75.	1.9	24