

# James M Brennan

## List of Publications by Year in descending order

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38  
papers

3,463  
citations

218381

26  
h-index

315357

38  
g-index

39  
all docs

39  
docs citations

39  
times ranked

2300  
citing authors

#	ARTICLE	IF	CITATIONS
1	UPGRADING OF MAGMATIC SULFIDES, REVISITED. <i>Economic Geology</i> , 2020, 115, 1827-1833.	1.8	19
2	The magmatic forge. <i>Nature Geoscience</i> , 2020, 13, 716-717.	5.4	1
3	Speciation of arsenic and antimony in basaltic magmas. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 276, 198-218.	1.6	17
4	Iron isotope fractionation at the core-mantle boundary by thermodiffusion. <i>Nature Geoscience</i> , 2020, 13, 382-386.	5.4	13
5	Abundance of highly siderophile elements in lunar basalts controlled by iron sulfide melt. <i>Nature Geoscience</i> , 2019, 12, 701-706.	5.4	24
6	The solubility of Pd and Au in hydrous intermediate silicate melts: The effect of oxygen fugacity and the addition of Cl and S. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 231, 15-29.	1.6	29
7	SYNTHESIS OF A CHALCOGENIDE GLASS STANDARD FOR LASER ABLATION-INDUCTIVELY COUPLED PLASMA-MASS SPECTROMETRY (LA-ICP-MS). <i>Economic Geology</i> , 2017, 112, 2005-2021.	1.8	3
8	Magmatic oxygen fugacity estimated using zircon-melt partitioning of cerium. <i>Earth and Planetary Science Letters</i> , 2016, 453, 260-266.	1.8	181
9	Experimental Results on Fractionation of the Highly Siderophile Elements (HSE) at Variable Pressures and Temperatures during Planetary and Magmatic Differentiation. <i>Reviews in Mineralogy and Geochemistry</i> , 2016, 81, 1-87.	2.2	90
10	Cerium oxidation state in silicate melts: Combined f O <sub>2</sub> , temperature and compositional effects. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 170, 173-187.	1.6	75
11	Partitioning of platinum-group elements (PGE) and chalcogens (Se, Te, As, Sb, Bi) between monosulfide-solid solution (MSS), intermediate solid solution (ISS) and sulfide liquid at controlled fO <sub>2</sub> -fS <sub>2</sub> conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 159, 139-161.	1.6	107
12	Se-Te fractionation by sulfide-silicate melt partitioning: Implications for the composition of mantle-derived magmas and their melting residues. <i>Earth and Planetary Science Letters</i> , 2015, 422, 45-57.	1.8	69
13	Partitioning of platinum-group elements and Au between sulfide liquid and basalt and the origins of mantle-crust fractionation of the chalcophile elements. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 125, 265-289.	1.6	402
14	Controls on the solubility of rhenium in silicate melt: Implications for the osmium isotopic composition of Earth's mantle. <i>Earth and Planetary Science Letters</i> , 2013, 361, 320-332.	1.8	19
15	Ubiquitous late veneer. <i>Nature Geoscience</i> , 2012, 5, 591-592.	5.4	24
16	Soret separation of highly siderophile elements in Fe-Ni-S melts: Implications for solid metal-liquid metal partitioning. <i>Earth and Planetary Science Letters</i> , 2010, 298, 299-305.	1.8	7
17	Core formation and metal-silicate fractionation of osmium and iridium from gold. <i>Nature Geoscience</i> , 2009, 2, 798-801.	5.4	98
18	Effect of pressure, temperature, and oxygen fugacity on the metal-silicate partitioning of Te, Se, and S: Implications for earth differentiation. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4598-4615.	1.6	98

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19	Re-Os fractionation by sulfide melt-silicate melt partitioning: A new spin. <i>Chemical Geology</i> , 2008, 248, 140-165.	1.4	114
20	Arc to rift transitional volcanism in the Santa RosalAa Region, Baja California Sur, Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 142, 303-341.	0.8	66
21	An experimental study of the solubility and partitioning of iridium, osmium and gold between olivine and silicate melt. <i>Earth and Planetary Science Letters</i> , 2005, 237, 855-872.	1.8	168
22	Measuring quartz solubility by in situ weight-loss determination using a hydrothermal diamond cell. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 5197-5204.	1.6	22
23	Extreme crustal oxygen isotope signatures preserved in coesite in diamond. <i>Nature</i> , 2003, 423, 68-70.	13.7	102
24	Effects of fO <sub>2</sub> , fS <sub>2</sub> , temperature, and melt composition on Fe-Ni exchange between olivine and sulfide liquid: implications for natural olivine-sulfide assemblages. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 2663-2681.	1.6	75
25	The solubility of ruthenium in sulfide liquid: implications for platinum group mineral stability and sulfide melt-silicate melt partitioning. <i>Chemical Geology</i> , 2002, 192, 163-181.	1.4	67
26	Re-Os fractionation in magmatic sulfide melt by monosulfide solid solution. <i>Earth and Planetary Science Letters</i> , 2002, 199, 257-268.	1.8	57
27	Diffusion of osmium in pyrrhotite and pyrite: implications for closure of the Re-Os isotopic system. <i>Earth and Planetary Science Letters</i> , 2000, 180, 399-413.	1.8	132
28	The role of aqueous fluids in the slab-to-mantle transfer of boron, beryllium, and lithium during subduction: experiments and models. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 3337-3347.	1.6	220
29	Noninvasive Confocal Raman Imaging of Immiscible Liquids in a Porous Medium. <i>Analytical Chemistry</i> , 1997, 69, 45-50.	3.2	16
30	Experimental evidence for the origin of lead enrichment in convergent-margin magmas. <i>Nature</i> , 1995, 378, 54-56.	13.7	173
31	Melts and fluids: An overview of recent advances. <i>Reviews of Geophysics</i> , 1995, 33, 33.	9.0	0
32	Diffusion of chlorine in fluid-bearing quartzite: effects of fluid composition and total porosity. <i>Contributions To Mineralogy and Petrology</i> , 1993, 115, 215-224.	1.2	27
33	Kinetics of fluorine, chlorine and hydroxyl exchange in fluorapatite. <i>Chemical Geology</i> , 1993, 110, 195-210.	1.4	126
34	Partitioning of fluorine and chlorine between apatite and aqueous fluids at high pressure and temperature: implications for the F and Cl content of highP-T fluids. <i>Earth and Planetary Science Letters</i> , 1993, 117, 251-263.	1.8	111
35	Partitioning of trace elements between olivine and aqueous fluids at highP-T conditions: implications for the effect of fluid composition on trace-element transport. <i>Earth and Planetary Science Letters</i> , 1991, 107, 672-688.	1.8	48
36	Partitioning of trace elements between carbonate melt and clinopyroxene and olivine at mantle P-T conditions. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 2203-2214.	1.6	50

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37	Fluids in the lithosphere, 2. Experimental constraints on CO <sub>2</sub> transport in dunite and quartzite at elevated P-T conditions with implications for mantle and crustal decarbonation processes. <i>Earth and Planetary Science Letters</i> , 1988, 91, 141-158.	1.8	64
38	Fluids in the lithosphere, 1. Experimentally-determined wetting characteristics of CO <sub>2</sub> H <sub>2</sub> O fluids and their implications for fluid transport, host-rock physical properties, and fluid inclusion formation. <i>Earth and Planetary Science Letters</i> , 1987, 85, 497-515.	1.8	545