

# Richard A Brooker

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9542162/publications.pdf>

Version: 2024-02-01

22  
papers

1,164  
citations

623734

14  
h-index

713466

21  
g-index

28  
all docs

28  
docs citations

28  
times ranked

1534  
citing authors

#	ARTICLE	IF	CITATIONS
1	Slab melting as a barrier to deep carbon subduction. <i>Nature</i> , 2016, 529, 76-79.	27.8	343
2	The effect of pressure on sulphur speciation in mid- to deep-crustal arc magmas and implications for the formation of porphyry copper deposits. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1.	3.1	134
3	Magma fragmentation in highly explosive basaltic eruptions induced by rapid crystallization. <i>Nature Geoscience</i> , 2019, 12, 1023-1028.	12.9	91
4	The volatile content of hypabyssal kimberlite magmas: some constraints from experiments on natural rock compositions. <i>Bulletin of Volcanology</i> , 2011, 73, 959-981.	3.0	74
5	Reduction in piston-cylinder experiments; the detection of carbon infiltration into platinum capsules. <i>American Mineralogist</i> , 1998, 83, 985-994.	1.9	72
6	In situ observation of nanolite growth in volcanic melt: A driving force for explosive eruptions. <i>Science Advances</i> , 2020, 6, .	10.3	67
7	Molybdenum systematics of subducted crust record reactive fluid flow from underlying slab serpentine dehydration. <i>Nature Communications</i> , 2019, 10, 4773.	12.8	63
8	Quantification of dissolved CO <sub>2</sub> in silicate glasses using micro-Raman spectroscopy. <i>American Mineralogist</i> , 2013, 98, 1788-1802.	1.9	48
9	Low fossilization potential of keratin protein revealed by experimental taphonomy. <i>Palaeontology</i> , 2017, 60, 547-556.	2.2	47
10	Oxidative dissolution of hydrothermal mixed-sulphide ore: An assessment of current knowledge in relation to seafloor massive sulphide mining. <i>Ore Geology Reviews</i> , 2017, 86, 309-337.	2.7	46
11	Cretaceous dinosaur bone contains recent organic material and provides an environment conducive to microbial communities. <i>ELife</i> , 2019, 8, .	6.0	38
12	Control and monitoring of oxygen fugacity in piston cylinder experiments. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	37
13	Dendritic crystallization in hydrous basaltic magmas controls magma mobility within the Earth's crust. <i>Nature Communications</i> , 2022, 13, .	12.8	17
14	Experimental leaching of massive sulphide from TAG active hydrothermal mound and implications for seafloor mining. <i>Marine Pollution Bulletin</i> , 2018, 126, 501-515.	5.0	15
15	EXPERIMENTAL TAPHONOMY OF KERATIN: A STRUCTURAL ANALYSIS OF EARLY TAPHONOMIC CHANGES. <i>Palaios</i> , 2017, 32, 647-657.	1.3	14
16	Rapid pre-eruptive mush reorganisation and atmospheric volatile emissions from the 12.9 ka Laacher See eruption, determined using apatite. <i>Earth and Planetary Science Letters</i> , 2021, 576, 117198.	4.4	14
17	The Influence of Glacial Cover on Riverine Silicon and Iron Exports in Chilean Patagonia. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006611.	4.9	12
18	Geological, Mineralogical and Textural Impacts on the Distribution of Environmentally Toxic Trace Elements in Seafloor Massive Sulfide Occurrences. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 162.	2.0	11

#	ARTICLE	IF	CITATIONS
19	The accumulation of molten volcanic ash in jet engines; simulating the role of magma composition, ash particle size and thermal barrier coatings. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 389, 106707.	2.1	9
20	CO3+1 network formation in ultra-high pressure carbonate liquids. <i>Scientific Reports</i> , 2019, 9, 15416.	3.3	8
21	The stability and composition of sulfate melts in arc magmas. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	3.1	4
22	Comment on: "Petrography of the Snap Lake Kimberlite Dyke (Northwest Territories, Canada) and its Interaction with Country Rock Granitoids" by Fulop et al. (2018), <i>Journal of Petrology</i> , doi: 10.1093/petrology/egy025. <i>Journal of Petrology</i> , 0, , .	2.8	0