

David E Damby

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

889
citations

430874

18
h-index

477307

29
g-index

41
all docs

41
docs citations

41
times ranked

1088
citing authors

#	ARTICLE	IF	CITATIONS
1	The nature and formation of cristobalite at the Soufrière Hills volcano, Montserrat: implications for the petrology and stability of silicic lava domes. <i>Bulletin of Volcanology</i> , 2013, 75, 1.	3.0	84
2	The $\beta \rightarrow \alpha$ phase transition in volcanic cristobalite. <i>Journal of Applied Crystallography</i> , 2014, 47, 1205-1215.	4.5	73
3	Physicochemical and toxicological profiling of ash from the 2010 and 2011 eruptions of Eyjafjallajökull and Grámsvötn volcanoes, Iceland using a rapid respiratory hazard assessment protocol. <i>Environmental Research</i> , 2013, 127, 63-73.	7.5	60
4	Fusion characteristics of volcanic ash relevant to aviation hazards. <i>Geophysical Research Letters</i> , 2014, 41, 2326-2333.	4.0	57
5	The respiratory health hazard of tephra from the 2010 Centennial eruption of Merapi with implications for occupational mining of deposits. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 261, 376-387.	2.1	52
6	The structure of volcanic cristobalite in relation to its toxicity; relevance for the variable crystalline silica hazard. <i>Particle and Fibre Toxicology</i> , 2012, 9, 44.	6.2	44
7	Sakurajima volcano: a physico-chemical study of the health consequences of long-term exposure to volcanic ash. <i>Bulletin of Volcanology</i> , 2012, 74, 913-930.	3.0	39
8	Combined exposure of diesel exhaust particles and respirable Soufrière Hills volcanic ash causes a (pro-)inflammatory response in an in vitro multicellular epithelial tissue barrier model. <i>Particle and Fibre Toxicology</i> , 2016, 13, 67.	6.2	34
9	Assessment of leachable elements in volcanic ashfall: a review and evaluation of a standardized protocol for ash hazard characterization. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 392, 106756.	2.1	33
10	Widespread natural variation in murine natural killer cell number and function. <i>Immunology</i> , 2008, 125, 331-343.	4.4	32
11	Volcanic air pollution and human health: recent advances and future directions. <i>Bulletin of Volcanology</i> , 2022, 84, 1.	3.0	31
12	The in vitro respiratory toxicity of cristobalite-bearing volcanic ash. <i>Environmental Research</i> , 2016, 145, 74-84.	7.5	28
13	The effect of aluminium and sodium impurities on the in vitro toxicity and pro-inflammatory potential of cristobalite. <i>Environmental Research</i> , 2017, 159, 164-175.	7.5	28
14	Volcanic Ash Activates the NLRP3 Inflammasome in Murine and Human Macrophages. <i>Frontiers in Immunology</i> , 2017, 8, 2000.	4.8	25
15	Respiratory hazard assessment of combined exposure to complete gasoline exhaust and respirable volcanic ash in a multicellular human lung model at the air-liquid interface. <i>Environmental Pollution</i> , 2018, 238, 977-987.	7.5	21
16	Evaluating the state-of-the-art in remote volcanic eruption characterization Part I: Raikoke volcano, Kuril Islands. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 419, 107354.	2.1	21
17	Volcanic ash supports a diverse bacterial community in a marine mesocosm. <i>Geobiology</i> , 2017, 15, 453-463.	2.4	19
18	Assessment of the potential respiratory hazard of volcanic ash from future Icelandic eruptions: a study of archived basaltic to rhyolitic ash samples. <i>Environmental Health</i> , 2017, 16, 98.	4.0	19

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19	Conduit margin heating and deformation during the AD 1886 basaltic Plinian eruption at Tarawera volcano, New Zealand. <i>Bulletin of Volcanology</i> , 2016, 78, 12.	3.0	18
20	Development of a simulated lung fluid leaching method to assess the release of potentially toxic elements from volcanic ash. <i>Chemosphere</i> , 2021, 278, 130303.	8.2	17
21	The global variability of diatomaceous earth toxicity: a physicochemical and in vitro investigation. <i>Journal of Occupational Medicine and Toxicology</i> , 2015, 10, 23.	2.2	16
22	Assessing the biological reactivity of organic compounds on volcanic ash: implications for human health hazard. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	3.0	15
23	Rapid metal pollutant deposition from the volcanic plume of K��lauea, Hawai��. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	15
24	<i>Slam</i> Haplotypes Modulate the Response to Lipopolysaccharide In Vivo through Control of NKT Cell Number and Function. <i>Journal of Immunology</i> , 2010, 185, 144-156.	0.8	14
25	Assessment of the potential for in-plume sulphur dioxide gas-ash interactions to influence the respiratory toxicity of volcanic ash. <i>Environmental Research</i> , 2019, 179, 108798.	7.5	12
26	Yellowstone's Old Faithful Geyser Shut Down by a Severe Thirteenth Century Drought. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089871.	4.0	12
27	Chapter 21 Controls on variations in cristobalite abundance in ash generated by the Soufriere Hills Volcano, Montserrat in the period 1997 to 2010. <i>Geological Society Memoir</i> , 2014, 39, 399-406.	1.7	11
28	Radiocarbon Dating of Silica Sinter and Postglacial Hydrothermal Activity in the El Tatio Geyser Field. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087908.	4.0	11
29	Evaluating the state-of-the-art in remote volcanic eruption characterization Part II: Ulawun volcano, Papua New Guinea. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 420, 107381.	2.1	10
30	The structure and volume of large geysers in Yellowstone National Park, USA and the mineralogy and chemistry of their silica sinter deposits. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 419, 107391.	2.1	9
31	Spatial analysis of Mount St. Helens tephra leachate compositions: implications for future sampling strategies. <i>Bulletin of Volcanology</i> , 2015, 77, 60.	3.0	8
32	Local geology controlled the feasibility of vitrifying Iron Age buildings. <i>Scientific Reports</i> , 2017, 7, 40028.	3.3	7
33	Progressive Failure Cycles and Distributions of Earthquake-Triggered Landslides. , 2013, , 755-762.		4
34	Volcanic Eruptions and Threats to Respiratory Health. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, P21-P22.	5.6	3
35	The feasibility of vitrifying a sandstone enclosure in the British Iron Age. <i>Journal of Archaeological Science: Reports</i> , 2015, 4, 605-612.	0.5	2
36	Evolution of Vocabulary in the Poetry of Sylvia Plath. <i>Digital Scholarship in the Humanities</i> , 0, , fqw026.	0.7	2

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37	Respirable volcanic ash is distinct mineralogically, physicochemically and toxicologically from soils originating from weathered volcanic products. A comment on Cervini-Silva et al. (2014) "Lipid peroxidation and cytotoxicity induced by respirable volcanic ash". Journal of Hazardous Materials, 2015, 285, 366-367.	12.4	1
38	Profiling lunar dust dissolution in aqueous environments: The design concept. Acta Astronautica, 2021, 178, 308-313.	3.2	1
39	Experimental design and data relevance in a volcanic ash-leachate health study: Letter to the Editor re. "Surface reactivity of Etna volcanic ash and evaluation of health risks" (STOTEN-143248). Science of the Total Environment, 2022, 804, 150076.	8.0	1
40	Correction: Slam Haplotypes Modulate the Response to Lipopolysaccharide In Vivo through Control of NKT Cell Number and Function. Journal of Immunology, 2011, 187, 3450-3450.	0.8	0