David W Peate

List of Publications by Year
in descending order

59 papers	4,975 citations	136950 32 h-index	138484 58 g-index
59 all docs	59 docs citations	59 times ranked	5032 citing authors

#	Article	IF	Citations
1	Pb isotopic analysis of standards and samples using a 207Pbâ€“204Pb double spike and thallium to correct for mass bias with a double-focusing MC-ICP-MS. Chemical Geology, 2004, 211, 275-303.	3.3	788
2	Foreâ€arc basalts and subduction initiation in the Izuâ€Boninâ€Mariana system. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	589
3	Chemical stratigraphy of the Paranï¿½ lavas (South America): classification of magma types and their spatial distribution. Bulletin of Volcanology, 1992, 55, 119-139.	3.0	320
4	The largest volcanic eruptions on Earth. Earth-Science Reviews, 2010, 102, 207-229.	9.1	251
5	Elemental U and Th variations in island arc rocks: implications for U-series isotopes. Chemical Geology, 1997, 139, 207-221.	3.3	190
6	Transport of Gold Nanoparticles through Plasmodesmata and Precipitation of Gold Ions in Woody Poplar. Environmental Science and Technology Letters, 2014, 1, 146-151.	8.7	188
7	Lithospheric to asthenospheric transition in Low-Ti flood basalts from southern ParanÃ¡, Brazil. Chemical Geology, 1996, 127, 1-24.	3.3	177
8	Petrogenesis and Stratigraphy of the High-Ti/Y Urubici Magma Type in the Parana Flood Basalt Province and Implications for the Nature of 'Dupal'-Type Mantle in the South Atlantic Region. Journal of Petrology, 1999, 40, 451-473.	2.8	150
9	Sr isotope ratio measurements by double-focusing MC-ICPMS: techniques, observations and pitfalls. International Journal of Mass Spectrometry, 2002, 221, 229-244.	1.5	150
10	The ParanÃ¡-Etendeka Province. Geophysical Monograph Series, 0, , 217-245.	0.1	146
11	Mantle plumes, flood basalts, and thermal models for melt generation beneath continents: Assessment of a conductive heating model and application to the ParanÃ¡. Journal of Geophysical Research, 1996, 101, 11503-11518.	3.3	144
12	Chlorine in submarine glasses from the Lau Basin: seawater contamination and constraints on the composition of slab-derived fluids. Earth and Planetary Science Letters, 2002, 202, 361-377.	4.4	142
13	Sea-Level Highstand 81,000 Years Ago in Mallorca. Science, 2010, 327, 860-863.	12.6	134
14	Mantle plumes and flood-basalt stratigraphy in the ParanÃ¡, South America. Geology, 1990, 18, 1223.	4.4	122
15	The geology of the southern Mariana fore-arc crust: Implications for the scale of Eocene volcanism in the western Pacific. Earth and Planetary Science Letters, 2013, 380, 41-51.	4.4	116
16	U-series Isotope Data on Lau Basin Glasses: the Role of Subduction-related Fluids during Melt Generation in Back-arc Basins. Journal of Petrology, 2001, 42, 1449-1470.	2.8	94
17	Crystallisation ages in coeval silicic magma bodies: 238Uâ€“230Th disequilibrium evidence from the Rotoiti and Earthquake Flat eruption deposits, Taupo Volcanic Zone, New Zealand. Earth and Planetary Science Letters, 2003, 206, 441-457.	4.4	94
18	Causes of spatial compositional variations in Mariana arc lavas: Trace element evidence. Island Arc, 1998, 7, 479-495.	1.1	78

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19	Isotope Dilution MC-ICP-MS Rare Earth Element Analysis of Geochemical Reference Materials NIST SRM 610, NIST SRM 612, NIST SRM 614, BHVO-2G, BHVO-2, BCR-2G, JB-2, WS-E, W-2, AGV-1 and AGV-2. Geostandards and Geoanalytical Research, 2004, 28, 417-429.	1.9	71
20	LIP printing: Use of immobile element proxies to characterize Large Igneous Provinces in the geologic record. Lithos, 2021, 392-393, 106068.	1.4	64
21	Historic magmatism on the Reykjanes Peninsula, Iceland: a snap-shot of melt generation at a ridge segment. Contributions To Mineralogy and Petrology, 2009, 157, 359-382.	3.1	63
22	In search of homelands: using strontium isotopes to identify biological markers of mobility in late prehistoric Portugal. Journal of Archaeological Science, 2014, 42, 119-127.	2.4	59
23	Geochemical Variations in Vanuatu Arc Lavas: the Role of Subducted Material and a Variable Mantle Wedge Composition. Journal of Petrology, 1997, 38, 1331-1358.	2.8	59
24	Early Cretaceous Basaltic and Rhyolitic Magmatism in Southern Uruguay Associated with the Opening of the South Atlantic. Journal of Petrology, 2000, 41, 1413-1438.	2.8	56
25	238Uâ€“230Th constraints on mantle upwelling and plumeâ€“ridge interaction along the Reykjanes Ridge. Earth and Planetary Science Letters, 2001, 187, 259-272.	4.4	53
26	Volcanic stratigraphy of large-volume silicic pyroclastic eruptions during Oligocene Afro-Arabian flood volcanism in Yemen. Bulletin of Volcanology, 2005, 68, 135-156.	3.0	52
27	U series disequilibria: Insights into mantle melting and the timescales of magma differentiation. Reviews of Geophysics, 2005, 43, .	23.0	50
28	Two mantle domains and the time scales of fluid transfer beneath the Vanuatu arc. Geology, 1999, 27, 963.	4.4	49
29	Petrology and geochemistry of the 2014â€“2015 Holuhraun eruption, central Iceland: compositional and mineralogical characteristics, temporal variability and magma storage. Contributions To Mineralogy and Petrology, 2018, 173, 1.	3.1	38
30	An Investigation into the Nature of the Magmatic Plumbing System at Paricutin Volcano, Mexico. Journal of Petrology, 2011, 52, 2187-2220.	2.8	36
31	Temporal variations in crustal assimilation of magma suites in the East Greenland flood basalt province: Tracking the evolution of magmatic plumbing systems. Lithos, 2008, 102, 179-197.	1.4	35
32	Diet and mobility patterns in the Late Prehistory of central Iberia (4000â€“1400Âcal bc): the evidence of radiogenic (87Sr/86Sr) and stable (Î´18O, Î´13C) isotope ratios. Archaeological and Anthropological Sciences, 2017, 9, 1439-1452.	1.8	34
33	Geochemical Stratigraphy of Submarine Lavas (3â€“5 Ma) from the Flamengos Valley, Santiago, Southern Cape Verde Islands. Journal of Petrology, 2009, 50, 169-193.	2.8	33
34	Magma plumbing systems in large igneous provinces: Inferences from cyclical variations in Palaeogene East Greenland basalts. Contributions To Mineralogy and Petrology, 2004, 147, 438-452.	3.1	30
35	Late Quaternary tephrostratigraphy of Baegdusan and Ulleung Volcanoes using marine sediments in the Japan Sea/East Sea. Quaternary Research, 2013, 80, 76-87.	1.7	29
36	Effects of EyjafjallajÃ¶kull Volcanic Ash on Innate Immune System Responses and Bacterial Growth in Vitro. Environmental Health Perspectives, 2013, 121, 691-698.	6.0	29

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37	Pb isotope evidence for contributions from different Iceland mantle components to Palaeogene East Greenland flood basalts. Lithos, 2003, 67, 39-52.	1.4	27
38	A micro-scale investigation of melt production and extraction in the upper mantle based on silicate melt pockets in ultramafic xenoliths from the Bakonyâ€“Balaton Highland Volcanic Field (Western) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.1	26
39	A 5 million year record of compositional variations in mantle sources to magmatism on Santiago, southern Cape Verde archipelago. Contributions To Mineralogy and Petrology, 2010, 160, 133-154.	3.1	23
40	Reply to the: Comment on â€œPb isotopic analysis of standards and samples using a 207Pbâ€“204Pb double spike and thallium to correct for mass bias with a double focusing MC-ICP-MSâ€• by Baker et al.. Chemical Geology, 2005, 217, 175-179.	3.3	20
41	Temporal evolution of a long-lived syenitic centre: The Kangerlussuaq Alkaline Complex, East Greenland. Lithos, 2006, 92, 276-299.	1.4	20
42	Interaction of the rifting East Greenland margin with a zoned ancestral Iceland plume. Geology, 2006, 34, 481.	4.4	20
43	High Precision Ru, Pd, Ir, Pt, Re and REE Determinations in the Stevns Klint Cretaceous-Tertiary Boundary Reference Material (FC-1) by Isotope Dilution Multiple Collector Inductively Coupled Plasma-Mass Spectrometry. Geostandards and Geoanalytical Research, 2003, 27, 59-66.	3.1	14
44	Textural and mineralogical diversity of compositionally homogeneous dacites from the summit of Mt. Erciyes, Central Anatolia, Turkey. Lithos, 2011, 127, 387-400.	1.4	11
45	Petrogenesis of High-MgO Lavas of the Lower Mull Plateau Group, Scotland: Insights from Melt Inclusions. Journal of Petrology, 2012, 53, 1867-1886.	2.8	11
46	Crustally derived granites in Dali, SW China: new constraints on silicic magmatism of the Central Emeishan Large Igneous Province. International Journal of Earth Sciences, 2017, 106, 2503-2525.	1.8	10
47	210Pb-226Ra disequilibria in young gas-laden magmas. Scientific Reports, 2017, 7, 45186.	3.3	9
48	Pb isotope variations in hydrogenetic Feâ€“Mn crusts from the Izuâ€“Bonin fore-arc. Chemical Geology, 2009, 258, 288-298.	3.3	8
49	Petrogenesis of maficâ€“silicic lavas at Mt. Erciyes, central Anatolia, Turkey. Journal of Volcanology and Geothermal Research, 2013, 256, 16-28.	2.1	8
50	Estimating groundwater age in the Cambrianâ€“Ordovician aquifer in Iowa: implications for biofuel production and other water uses. Environmental Earth Sciences, 2017, 76, 1.	2.7	8
51	Un enterramiento colectivo en cueva del III milenio AC en el centro de la PenÃnsula IbÃ©rica: el Rebollosillo (Torrelaguna, Madrid). Trabajos De Prehistoria, 2017, 74, 68.	0.7	8
52	Reconstructing the plumbing system of an off-rift primitive alkaline tuya (Vatnafell, Iceland) using geothermobarometry and CSDs. Journal of Volcanology and Geothermal Research, 2020, 399, 106914.	2.1	7
53	Pitfalls in 230Thâ€“238U dating of young Quaternary volcanic rocks:. Quaternary Science Reviews, 2001, 20, 1927-1933.	3.0	6
54	â€˜Teaching What I Learnedâ€™: Exploring studentsâ€™ Earth and Space Science learning experiences in secondary school with a particular focus on their comprehension of the concept of â€˜geologic timeâ€™. International Journal of Science Education, 2015, 37, 1436-1453.	1.9	6

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55	Formation of low-Î´18O magmas of the Kangerlussuaq Intrusion by addition of water derived from dehydration of foundered basaltic roof rocks. Contributions To Mineralogy and Petrology, 2015, 169, 1.	3.1	6
56	Animal mobility in Chalcolithic Portugal: Isotopic analyses of cattle from the sites of Zambujal and Leceia. Journal of Archaeological Science: Reports, 2019, 24, 804-814.	0.5	4
57	Evaluation of a Portable Aerosol Collector and Spectrometer to measure particle concentration by composition and size. Aerosol Science and Technology, 2019, 53, 675-687.	3.1	4
58	The First Dated Eemian Lacustrine Deposit in Romania. Quaternary Research, 2001, 56, 62-65.	1.7	3
59	Mining unique soft old water within the Manson Impact Structure, Iowa (USA). Hydrogeology Journal, 2015, 23, 95-103.	2.1	3