Julie Prytulak

List of Publications by Year
in descending order

57 papers	2,771 citations	186265 28 h-index	182427 51 g-index
58 all docs	58 docs citations	58 times ranked	2656 citing authors

#	Article	IF	Citations
1	The Hfâ€“Nd isotopic composition of marine sediments. Geochimica Et Cosmochimica Acta, 2011, 75, 5903-5926.	3.9	449
2	TiO2 enrichment in ocean island basalts. Earth and Planetary Science Letters, 2007, 263, 388-403.	4.4	222
3	Procedures for accurate U and Th isotope measurements by high precision MC-ICPMS. International Journal of Mass Spectrometry, 2007, 264, 97-109.	1.5	161
4	Subduction initiation and ophiolite crust: new insights from IODP drilling. International Geology Review, 2017, 59, 1439-1450.	2.1	145
5	An Interâ€Laboratory Assessment of the Thorium Isotopic Composition of Synthetic and Rock Reference Materials. Geostandards and Geoanalytical Research, 2008, 32, 65-91.	1.9	130
6	Magmatic Response to Subduction Initiation: Part 1. Foreâ€arc Basalts of the Izuâ€Bonin Arc From IODP Expedition 352. Geochemistry, Geophysics, Geosystems, 2019, 20, 314-338.	2.5	113
7	Radiogenic isotopes document the start of subduction in the Western Pacific. Earth and Planetary Science Letters, 2019, 518, 197-210.	4.4	90
8	Investigation and Application of Thallium Isotope Fractionation. Reviews in Mineralogy and Geochemistry, 2017, 82, 759-798.	4.8	70
9	The stable vanadium isotope composition of the mantle and mafic lavas. Earth and Planetary Science Letters, 2013, 365, 177-189.	4.4	68
10	Rapid subduction initiation and magmatism in the Western Pacific driven by internal vertical forces. Nature Communications, 2020, 11, 1874.	12.8	66
11	The stable isotope composition of vanadium, nickel, and molybdenum in crude oils. Applied Geochemistry, 2015, 59, 104-117.	3.0	65
12	Assessing the utility of thallium and thallium isotopes for tracing subduction zone inputs to the Mariana arc. Chemical Geology, 2013, 345, 139-149.	3.3	63
13	Determination of Precise and Accurate 51V/50V Isotope Ratios by MC-ICP-MS, Part 1: Chemical Separation of Vanadium and Mass Spectrometric Protocols. Geostandards and Geoanalytical Research, 2011, 35, 293-306.	3.1	60
14	Interplay of crystal fractionation, sulfide saturation and oxygen fugacity on the iron isotope composition of arc lavas: An example from the Marianas. Geochimica Et Cosmochimica Acta, 2018, 226, 224-243.	3.9	60
15	Tracking along-arc sediment inputs to the Aleutian arc using thallium isotopes. Geochimica Et Cosmochimica Acta, 2016, 181, 217-237.	3.9	56
16	No change in the neodymium isotope composition of deep water exported from the North Atlantic on glacial-interglacial time scales. Geology, 2007, 35, 37.	4.4	55
17	Mantle wedge temperatures and their potential relation to volcanic arc location. Earth and Planetary Science Letters, 2018, 501, 67-77.	4.4	52
18	Magmatic Response to Subduction Initiation, Part II: Boninites and Related Rocks of the Izuâ€Bonin Arc From IODP Expedition 352. Geochemistry, Geophysics, Geosystems, 2021, 22, .	2.5	52

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19	Determination of Precise and Accurate 51V/50V Isotope Ratios by Multi-Collector ICP-MS, Part 2: Isotopic Composition of Six Reference Materials plus the Allende Chondrite and Verification Tests. Geostandards and Geoanalytical Research, 2011, 35, 307-318.	3.1	50
20	Determining melt productivity of mantle sources from 238Uâ€“230Th and 235Uâ€“231Pa disequilibria; an example from Pico Island, Azores. Geochimica Et Cosmochimica Acta, 2009, 73, 2103-2122.	3.9	49
21	Cu and Zn isotope fractionation during extreme chemical weathering. Geochimica Et Cosmochimica Acta, 2019, 263, 85-107.	3.9	49
22	Astoria Fan sediments, DSDP site 174, Cascadia Basin: Hfâ€“Ndâ€“Pb constraints on provenance and outburst flooding. Chemical Geology, 2006, 233, 276-292.	3.3	45
23	Application of a handheld X-ray fluorescence spectrometer for real-time, high-density quantitative analysis of drilled igneous rocks and sediments during IODP Expedition 352. Chemical Geology, 2017, 451, 55-66.	3.3	44
24	Thallium elemental behavior and stable isotope fractionation during magmatic processes. Chemical Geology, 2017, 448, 71-83.	3.3	36
25	Vanadium isotopic difference between the silicate Earth and meteorites. Earth and Planetary Science Letters, 2014, 389, 167-175.	4.4	35
26	Understanding melt generation beneath the slow-spreading Kolbeinsey Ridge using 238U, 230Th, and 231Pa excesses. Geochimica Et Cosmochimica Acta, 2011, 75, 6300-6329.	3.9	33
27	Stable vanadium isotopes as a redox proxy in magmatic systems?. Geochemical Perspectives Letters, 2017, , 75-84.	5.0	33
28	Expedition 352 methods. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	32
29	Reconciling mantle wedge thermal structure with arc lava thermobarometric determinations in oceanic subduction zones. Geochemistry, Geophysics, Geosystems, 2016, 17, 4105-4127.	2.5	31
30	Thallium isotopes as tracers of recycled materials in subduction zones: Review and new data for lavas from Tonga-Kermadec and Central America. Journal of Volcanology and Geothermal Research, 2017, 339, 23-40.	2.1	30
31	Experimental calibration of vanadium partitioning and stable isotope fractionation between hydrous granitic melt and magnetite at 800ÂÂ°C and 0.5ÂGPa. Contributions To Mineralogy and Petrology, 2018, 173, 1.	3.1	29
32	Thallium concentration and thallium isotope composition of lateritic terrains. Geochimica Et Cosmochimica Acta, 2018, 239, 446-462.	3.9	27
33	A Pyroxenic View on Magma Hybridization and Crystallization at PopocatÃ©petl Volcano, Mexico. Frontiers in Earth Science, 2020, 8, .	1.8	25
34	Nucleosynthetic vanadium isotope heterogeneity of the early solar system recorded in chondritic meteorites. Earth and Planetary Science Letters, 2019, 505, 131-140.	4.4	23
35	Assessment of USGS BCRâ€2 as a Reference Material for Silicate Rock Uâ€Pa Disequilibrium Measurements. Geostandards and Geoanalytical Research, 2008, 32, 55-63.	1.9	22
36	Melting versus contamination effects on 238Uâ€“230Thâ€“226Ra and 235Uâ€“231Pa disequilibria in lavas from SÃ£o Miguel, Azores. Chemical Geology, 2014, 381, 94-109.	3.3	20

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37	Recent volcanic accretion at 9^{Â°}Nâ€“10^{Â°}N East Pacific Rise as resolved by combined geochemical and geological observations. Geochemistry, Geophysics, Geosystems, 2013, 14, 2547-2574.	2.5	19
38	Interplinian effusive activity at PopocatÃ©petl volcano, Mexico: New insights into evolution and dynamics of the plumbing system. Volcanica, 2019, 2, 45-72.	1.8	19
39	Nitrogen Mass Fraction and Stable Isotope Ratios for Fourteen Geological Reference Materials: Evaluating the Applicability of Elemental Analyser Versus Sealed Tube Combustion Methods. Geostandards and Geoanalytical Research, 2020, 44, 537-551.	3.1	15
40	A multi-proxy investigation of mantle oxygen fugacity along the Reykjanes Ridge. Earth and Planetary Science Letters, 2020, 531, 115973.	4.4	13
41	The vanadium isotopic composition of lunar basalts. Earth and Planetary Science Letters, 2019, 511, 12-24.	4.4	12
42	Thallium Mass Fraction and Stable Isotope Ratios of Sixteen Geological Reference Materials. Geostandards and Geoanalytical Research, 2018, 42, 339-360.	3.1	11
43	Expedition 352 summary. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	9
44	Site U1439. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	9
45	Magma recharge patterns control eruption styles and magnitudes at PopocatÃ©petl volcano (Mexico). Geology, 2022, 50, 366-370.	4.4	9
46	Nature of the Cuvier Abyssal Plain crust, offshore NW Australia. Journal of the Geological Society, 2021, 178, .	2.1	8
47	A new method for the determination of low-level actinium-227 in geological samples. Journal of Radioanalytical and Nuclear Chemistry, 2013, 296, 279-283.	1.5	7
48	Thallium isotopic composition of phlogopite in kimberlite-hosted MARID and PIC mantle xenoliths. Chemical Geology, 2020, 531, 119347.	3.3	7
49	Assessing Thallium Elemental Systematics and Isotope Ratio Variations in Porphyry Ore Systems: A Case Study of the Bingham Canyon District. Minerals (Basel, Switzerland), 2018, 8, 548.	2.0	6
50	Thallium elemental and isotopic systematics in ocean island lavas. Geochimica Et Cosmochimica Acta, 2021, 301, 187-210.	3.9	6
51	Site U1440. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	6
52	Thallium Isotopic Compositions in Hawaiian Lavas: Evidence for Recycled Materials on the Kea Side of the Hawaiian Mantle Plume. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009765.	2.5	5
53	Site U1441. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	5
54	Site U1442. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	5

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55	Formation mechanisms of macroscopic globules in andesitic glasses from the Izuâ€“Boninâ€“Mariana forearc (IODP Expedition 352). Contributions To Mineralogy and Petrology, 2021, 176, 1.	3.1	4
56	Identifying Tethys oceanic fingerprint in post-collisional potassium-rich lavas in Tibet using thallium isotopes. Chemical Geology, 2022, 607, 121013.	3.3	4
57	Evolution of the PopocatÃ©petl Volcanic Complex: constraints on periodic edifice construction and destruction by sector collapse. Journal of the Geological Society, 2022, 179, .	2.1	2