Scott A Whattam

List of Publications by Year
in descending order

34 papers	2,074 citations	361413 20 h-index	434195 31 g-index
35 all docs	35 docs citations	35 times ranked	1840 citing authors

#	Article	IF	Citations
1	To understand subduction initiation, study forearc crust: To understand forearc crust, study ophiolites. Lithosphere, 2012, 4, 469-483.	1.4	352
2	The â€˜subduction initiation ruleâ€™: a key for linking ophiolites, intra-oceanic forearcs, and subduction initiation. Contributions To Mineralogy and Petrology, 2011, 162, 1031-1045.	3.1	339
3	Plate tectonics on the Earth triggered by plume-induced subduction initiation. Nature, 2015, 527, 221-225.	27.8	310
4	Subduction initiation and ophiolite crust: new insights from IODP drilling. International Geology Review, 2017, 59, 1439-1450.	2.1	145
5	Late Cretaceous plume-induced subduction initiation along the southern margin of the Caribbean and NW South America: The first documented example with implications for the onset of plate tectonics. Gondwana Research, 2015, 27, 38-63.	6.0	122
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	New SW Pacific tectonic model: Cyclical intraoceanic magmatic arc construction and nearâ€coeval emplacement along the Australiaâ€Pacific margin in the Cenozoic. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	70
8	Arc-continent collisional orogenesis in the SW Pacific and the nature, source and correlation of emplaced ophiolitic nappe components. Lithos, 2009, 113, 88-114.	1.4	59
9	Magmatism, serpentinization and life: Insights through drilling the Atlantis Massif (IODP Expedition) Tj ETQq1 1 0.784314 rgBT /Overlo	1.4	58
10	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
11	Link between SSZ ophiolite formation, emplacement and arc inception, Northland, New Zealand: Uâ€“Pb SHRIMP constraints; Cenozoic SW Pacific tectonic implications. Earth and Planetary Science Letters, 2006, 250, 606-632.	4.4	45
12	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
13	Magmatic peridotites and pyroxenites, Andong Ultramafic Complex, Korea: Geochemical evidence for supra-subduction zone formation and extensive meltâ€“rock interaction. Lithos, 2011, 127, 599-618.	1.4	36
14	Formation and emplacement of the Northland ophiolite, northern New Zealand: SW Pacific tectonic implications. Journal of the Geological Society, 2005, 162, 225-241.	2.1	35
15	Granoblastic olivine aggregates in magnesian chondrules: Planetesimal fragments or thermally annealed solar nebula condensates?. Earth and Planetary Science Letters, 2008, 269, 200-211.	4.4	27
16	Age and origin of earliest adakitic-like magmatism in Panama: Implications for the tectonic evolution of the Panamanian magmatic arc system. Lithos, 2012, 142-143, 226-244.	1.4	27
17	Relict subduction initiation along a passive margin in the northwest Indian Ocean. Nature Communications, 2019, 10, 2248.	12.8	26
18	Mineral compositions and thermobarometry of basalts and boninites recovered during IODP Expedition 352 to the Bonin forearc. American Mineralogist, 2020, 105, 1490-1507.	1.9	26

#	Article	IF	Citations
19	Origin of the Northland Ophiolite, northern New Zealand: Discussion of new data and reassessment of the model. New Zealand Journal of Geology, and Geophysics, 2004, 47, 383-389.	1.8	23
20	Origin of plagiogranites in oceanic complexes: A case study of the Nicoya and Santa Elena terranes, Costa Rica. Lithos, 2016, 262, 75-87.	1.4	23
21	Evolution of the mantle beneath the eastern North China Craton during the Cenozoic: Linking geochemical and geophysical observations. Journal of Geophysical Research: Solid Earth, 2017, 122, 224-246.	3.4	23
22	Arc magmatic evolution and the construction of continental crust at the Central American Volcanic Arc system. International Geology Review, 2016, 58, 653-686.	2.1	21
23	Early central American forearc follows the subduction initiation rule. Gondwana Research, 2020, 79, 283-300.	6.0	21
24	Granoblastic olivine aggregates as precursors of Type I chondrules: An experimental test. Geochimica Et Cosmochimica Acta, 2009, 73, 5460-5482.	3.9	20
25	Primitive Magmas in the Early Central American Volcanic Arc System Generated by Plume-Induced Subduction Initiation. Frontiers in Earth Science, 2018, 6, .	1.8	15
26	Plume-Induced Subduction Initiation: Revisiting Models and Observations. Frontiers in Earth Science, 2021, 9, .	1.8	13
27	Geochemical and mineralogical characteristics of the Yonghwa phoscoriteâ€“carbonatite complex, South Korea, and genetic implications. Lithos, 2016, 262, 606-619.	1.4	11
28	Geochemistry of serpentinized and multiphase altered Atlantis Massif peridotites (IODP Expedition) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 594, 120681.	3.3	9
29	Significance of a highly refractory source during subduction initiation to form the Izu-Bonin-Mariana Arc. Science Bulletin, 2022, 67, 119-121.	9.0	5
30	Refractory inclusions as Type IA chondrule precursors: Constraints from melting experiments. Geochimica Et Cosmochimica Acta, 2022, 319, 30-55.	3.9	3
31	Reply to â€˜Evidence for simple volcanic rifting not complex subduction initiation in the Laxmi Basinâ€™. Nature Communications, 2020, 11, 2734.	12.8	1
32	CHEMOSTRATIGRAPHY OF SUBDUCTION INITIATION: IODP EXPEDITION 352 BONINITE AND FAB. , 2016, , .		0
33	FINE-SCALE SHIPBOARD RESOLUTION AMONG MAFIC IGNEOUS ROCK SEQUENCES RECOVERED DURING OCEAN DRILLING: QUANTITATIVE PXRF DETERMINATION OF KEY ELEMENTS ON ROCK SURFACES AND POWDERS DURING IODP EXPEDITION 352. , 2016, , .		0
34	TWO-STAGE SUBDUCTION INITIATION AROUND THE CARIBBEAN PLUMEHEAD PLATE. , 2016, , .		0