

# R J Arculus

## List of Publications by Year in descending order

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178  
papers

14,668  
citations

19657

61  
h-index

19749

117  
g-index

183  
all docs

183  
docs citations

183  
times ranked

6689  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Geochemical Classification for Granitic Rocks. <i>Journal of Petrology</i> , 2001, 42, 2033-2048.	2.8	3,179
2	Chemical characteristics of island-arc basalts: Implications for mantle sources. <i>Chemical Geology</i> , 1980, 30, 227-256.	3.3	608
3	The redox state of subduction zones: insights from arc-peridotites. <i>Chemical Geology</i> , 1999, 160, 409-423.	3.3	452
4	The Magnetite Crisis in the Evolution of Arc-related Magmas and the Initial Concentration of Au, Ag and Cu. <i>Journal of Petrology</i> , 2010, 51, 2445-2464.	2.8	351
5	The Petrology of Plutonic Blocks and Inclusions from the Lesser Antilles Island Arc. <i>Journal of Petrology</i> , 1980, 21, 743-799.	2.8	345
6	High Field Strength Element Anomalies in Arc Lavas: Source or Process?. <i>Journal of Petrology</i> , 1994, 35, 819-838.	2.8	325
7	Redistribution of trace elements during prograde metamorphism from lawsonite blueschist to eclogite facies; implications for deep subduction-zone processes. <i>Contributions To Mineralogy and Petrology</i> , 2003, 146, 205-222.	3.1	322
8	Source component mixing in the regions of arc magma generation. <i>Journal of Geophysical Research</i> , 1986, 91, 5913-5926.	3.3	306
9	Release of gold-bearing fluids in convergent margin magmas prompted by magnetite crystallization. <i>Nature</i> , 2004, 431, 975-978.	27.8	293
10	Aspects of magma genesis in arcs. <i>Lithos</i> , 1994, 33, 189-208.	1.4	270
11	Use and Abuse of the Terms Calcalkaline and Calcalkalic. <i>Journal of Petrology</i> , 2003, 44, 929-935.	2.8	222
12	A record of spontaneous subduction initiation in the Izu-Bonin-Mariana arc. <i>Nature Geoscience</i> , 2015, 8, 728-733.	12.9	194
13	Geochemistry of the Lesser Antilles volcanic island arc. <i>Geochimica Et Cosmochimica Acta</i> , 1977, 41, 785-801.	3.9	183
14	Resolution of the effects of crustal assimilation, sediment subduction, and fluid transport in island arc magmas: PbSrNdO isotope geochemistry of Grenada, Lesser Antilles. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 4785-4810.	3.9	176
15	Geochemical heterogeneity and element mobility in deeply subducted oceanic crust; insights from high-pressure mafic rocks from New Caledonia. <i>Chemical Geology</i> , 2004, 206, 21-42.	3.3	154
16	The importance of talc and chlorite - hybrid rocks for volatile recycling through subduction zones; evidence from the high-pressure subduction mélange of New Caledonia. <i>Contributions To Mineralogy and Petrology</i> , 2008, 155, 181-198.	3.1	148
17	Solubility of carbon dioxide in melts of andesite, tholeiite, and olivine nephelinite composition to 30 kbar pressure. <i>Contributions To Mineralogy and Petrology</i> , 1975, 53, 227-239.	3.1	136
18	Origin of chromitites in layered intrusions: Evidence from chromite-hosted melt inclusions from the Stillwater Complex. <i>Geology</i> , 2005, 33, 893.	4.4	133

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19	Enhanced mantle-to-crust rhenium transfer in undegassed arc magmas. <i>Nature</i> , 2003, 422, 294-297.	27.8	131
20	Age of Izu-Bonin-Mariana arc basement. <i>Earth and Planetary Science Letters</i> , 2018, 481, 80-90.	4.4	131
21	Nd and Sr isotope geochemistry of island arc volcanics, Grenada, Lesser Antilles. <i>Earth and Planetary Science Letters</i> , 1979, 45, 237-248.	4.4	128
22	Island-arc magma sources: A geochemical assessment of the roles of slab-derived components and crustal contamination. <i>Geochemical Journal</i> , 1981, 15, 109-133.	1.0	123
23	Rhenium systematics in submarine MORB and back-arc basin glasses: laser ablation ICP-MS results. <i>Chemical Geology</i> , 2003, 196, 259-281.	3.3	122
24	Nd-Sr isotope composition of lower crustal xenoliths ? Evidence for the origin of mid-tertiary felsic volcanics in Mexico. <i>Contributions To Mineralogy and Petrology</i> , 1988, 99, 36-43.	3.1	120
25	Oxidation Status of the Mantle: Past and Present. <i>Annual Review of Earth and Planetary Sciences</i> , 1985, 13, 75-95.	11.0	115
26	Geochemical window into subduction and accretion processes: Raspas metamorphic complex, Ecuador. <i>Geology</i> , 1999, 27, 547.	4.4	112
27	Peridotite xenoliths from Grenada, Lesser Antilles Island Arc. <i>Contributions To Mineralogy and Petrology</i> , 2003, 146, 241-262.	3.1	112
28	Geology and geochemistry of the alkali basalt-andesite association of Grenada, Lesser Antilles island arc. <i>Bulletin of the Geological Society of America</i> , 1976, 87, 612.	3.3	108
29	The significance of source versus process in the tectonic controls of magma genesis. <i>Journal of Volcanology and Geothermal Research</i> , 1987, 32, 1-12.	2.1	105
30	Late Cretaceous arc development on the SW margin of the Caribbean Plate: Insights from the Golfito, Costa Rica, and Azuero, Panama, complexes. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	105
31	'Forbidden zone' subduction of sediments to 150 km depth- the reaction of dolomite to magnesite + aragonite in the UHPM metapelites from western Tianshan, China. <i>Journal of Metamorphic Geology</i> , 2003, 21, 523-529.	3.4	103
32	Intrinsic oxygen fugacity measurements: techniques and results for spinels from upper mantle peridotites and megacryst assemblages. <i>Geochimica Et Cosmochimica Acta</i> , 1981, 45, 899-913.	3.9	98
33	Quantifying brine assimilation by submarine magmas: Examples from the Galápagos Spreading Centre and Lau Basin. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 123, 150-165.	3.9	98
34	Chlorine in submarine volcanic glasses from the eastern Manus basin. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1542-1552.	3.9	96
35	Klyuchevskoy Volcano, Kamchatka, Russia: The Role of High-Flux Recharged, Tapped, and Fractionated Magma Chamber(s) in the Genesis of High-Al <sub>2</sub> O <sub>3</sub> from High-MgO Basalt. <i>Journal of Petrology</i> , 1994, 35, 1-41.	2.8	94
36	Rare earth element concentrations in a suite of basanitoids and alkali olivine basalts from Grenada, Lesser Antilles. <i>Contributions To Mineralogy and Petrology</i> , 1975, 50, 231-240.	3.1	92

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37	Oxidising agents in sub-arc mantle melts link slab devolatilisation and arc magmas. <i>Nature Communications</i> , 2018, 9, 3500.	12.8	91
38	Constancy of Nb/U in the mantle revisited. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 3542-3549.	3.9	90
39	High-Ca boninites from the active Tonga Arc. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	90
40	Ultramafic and Mafic Inclusions, Kanaga Island, Alaska, and the Occurrence of Alkaline Rocks in Island Arcs. <i>Journal of Geology</i> , 1975, 83, 721-736.	1.4	89
41	Inter-element fractionation of highly siderophile elements in the Tonga Arc due to flux melting of a depleted source. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 89, 202-225.	3.9	89
42	Olivine-enriched melt inclusions in chromites from low-Ca boninites, Cape Vogel, Papua New Guinea: evidence for ultramafic primary magma, refractory mantle source and enriched components. <i>Chemical Geology</i> , 2002, 183, 287-303.	3.3	86
43	Island arc magmatism in relation to the evolution of the crust and mantle. <i>Tectonophysics</i> , 1981, 75, 113-133.	2.2	85
44	Magmatic origin of low-Ca olivine in subduction-related magmas: Co-existence of contrasting magmas. <i>Chemical Geology</i> , 2006, 233, 346-357.	3.3	85
45	Criticism of generalised models for the magmatic evolution of arc-trench systems. <i>Earth and Planetary Science Letters</i> , 1978, 39, 118-126.	4.4	84
46	Origin of depleted basalts during subduction initiation and early development of the Izu-Bonin-Mariana island arc: Evidence from IODP expedition 351 site U1438, Amami-Sankaku basin. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 229, 85-111.	3.9	83
47	Chalcophile element systematics in volcanic glasses from the northwestern Lau Basin. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	81
48	Platinum-alloy and sulfur saturation in an arc-related basalt to rhyolite suite: Evidence from the Pual Ridge lavas, the Eastern Manus Basin. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 101, 76-95.	3.9	80
49	Lithospheric Contributions to Arc Magmatism: Isotope Variations Along Strike in Volcanoes of Honshu, Japan. <i>Science</i> , 1996, 272, 1464-1468.	12.6	77
50	Evidence for rhenium enrichment in the mantle wedge from submarine arc-like volcanic glasses (Papua New Guinea). <i>Geology</i> , 2003, 31, 845.	4.4	76
51	Supra-subduction Zone Pyroxenites from San Jorge and Santa Isabel (Solomon Islands). <i>Journal of Petrology</i> , 2006, 47, 1531-1555.	2.8	76
52	Standard Gibbs free energy of formation for Cu <sub>2</sub> O, NiO, CoO, and FeO: High resolution electrochemical measurements using zirconia solid electrolytes from 900-1400 K. <i>Geochimica Et Cosmochimica Acta</i> , 1986, 50, 2439-2452.	3.9	74
53	Redox-variability and controls in subduction zones from an iron-isotope perspective. <i>Earth and Planetary Science Letters</i> , 2015, 432, 142-151.	4.4	74
54	Pb isotope composition of Klyuchevskoy volcano, Kamchatka and North Pacific sediments: Implications for magma genesis and crustal recycling in the Kamchatkan arc. <i>Earth and Planetary Science Letters</i> , 1995, 136, 133-148.	4.4	73

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55	Temporal Evolution of the Mariana Arc: Mantle Wedge and Subducted Slab Controls Revealed with a Tephra Perspective. <i>Journal of Petrology</i> , 2015, 56, 409-439.	2.8	73
56	Submarine back-arc lava with arc signature: Fonualei Spreading Center, northeast Lau Basin, Tonga. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	70
57	A Petrogenetic Model for the Origin of the Calc-alkaline suite of Grenada, Lesser Antilles. <i>Journal of Petrology</i> , 1973, 14, 327-337.	2.8	69
58	Clarence River Supersuite: 250 Ma Cordilleran Tonalitic I-type Intrusions in Eastern Australia. <i>Journal of Petrology</i> , 1997, 38, 975-1001.	2.8	69
59	Petrogenesis of the Greenhills Complex, Southland, New Zealand: magmatic differentiation and cumulate formation at the roots of a Permian island-arc volcano. <i>Contributions To Mineralogy and Petrology</i> , 2003, 144, 703-721.	3.1	69
60	Siderophile element abundances in the upper mantle: evidence for a sulfide signature and equilibrium with the core. <i>Geochimica Et Cosmochimica Acta</i> , 1981, 45, 1331-1343.	3.9	67
61	Oceanic intraplate volcanoes exposed: Example from seamounts accreted in Panama. <i>Geology</i> , 2011, 39, 335-338.	4.4	67
62	The geochemical evolution of the Izu-Bonin arc system: A perspective from tephtras recovered by deep-sea drilling. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, n/a-n/a.	2.5	65
63	Ophiolite-contaminated andesites, trachybasalts, and cognate inclusions of Mount Lamington, Papua New Guinea: anhydrite-amphibole-bearing lavas and the 1951 cumulodome. <i>Journal of Volcanology and Geothermal Research</i> , 1983, 18, 215-247.	2.1	62
64	The competing effects of sulfide saturation versus degassing on the behavior of the chalcophile elements during the differentiation of hydrous melts. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1490-1507.	2.5	57
65	The arc arises: The links between volcanic output, arc evolution and melt composition. <i>Earth and Planetary Science Letters</i> , 2017, 461, 73-84.	4.4	57
66	Mineralogy and petrology of Grenada, Lesser Antilles island arc. <i>Contributions To Mineralogy and Petrology</i> , 1978, 65, 413-424.	3.1	55
67	Oxidation states of the upper mantle recorded by megacryst ilmenite in kimberlite and type A and B spinel lherzolites. <i>Contributions To Mineralogy and Petrology</i> , 1984, 85, 85-94.	3.1	55
68	Subduction initiation without magmatism: The case of the missing Alpine magmatic arc. <i>Geology</i> , 2018, 46, 1059-1062.	4.4	54
69	The Alkalic Rock Suite of Bogoslof Island, Eastern Aleutian Arc, Alaska. <i>Journal of Geology</i> , 1977, 85, 177-186.	1.4	52
70	Subduction-related halogens (Cl, Br and I) and H <sub>2</sub> O in magmatic glasses from Southwest Pacific Backarc Basins. <i>Earth and Planetary Science Letters</i> , 2014, 400, 165-176.	4.4	52
71	Helium isotope, <sup>3</sup> C/ <sup>3</sup> H/e, and <sup>15</sup> N/ <sup>14</sup> T/i signatures in the northern Lau Basin: Distinguishing arc, back-arc, and hotspot affinities. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1133-1155.	2.5	50
72	Isotopic and geochemical studies of nodules in kimberlite have implications for the lower continental crust. <i>Nature</i> , 1982, 300, 166-169.	27.8	49

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73	Paleozoic to Triassic ocean opening and closure preserved in Central Iran: Constraints from the geochemistry of meta-igneous rocks of the Anarak area. <i>Lithos</i> , 2013, 172-173, 267-287.	1.4	49
74	Implications of Eocene-age Philippine Sea and forearc basalts for initiation and early history of the Izu-Bonin-Mariana arc. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 228, 136-156.	3.9	48
75	Structure and petrology of newly discovered volcanic centers in the northern Kermadec–southern Tofua arc, South Pacific Ocean. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	47
76	Petrology of Plutonic Xenoliths and Volcanic Rocks from Grenada, Lesser Antilles. <i>Journal of Petrology</i> , 2014, 55, 1353-1387.	2.8	47
77	Geochemical and isotopic characteristics of lower crustal xenoliths, San Francisco Volcanic Field, Arizona, U.S.A. <i>Lithos</i> , 1995, 36, 203-225.	1.4	46
78	Hydrothermal activity on near-arc sections of back-arc ridges: Results from the Mariana Trough and Lau Basin. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	46
79	Multiple hydrothermal sources along the south Tonga arc and Valu Fa Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, .	2.5	46
80	Helium isotope variations in seafloor basalts from the Northwest Lau Backarc Basin: Mapping the influence of the Samoan hotspot. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	46
81	Variation in sub-arc mantle oxygen fugacity during partial melting recorded in refractory peridotite xenoliths from the West Bismarck Arc. <i>Chemical Geology</i> , 2018, 486, 16-30.	3.3	45
82	Tracing mantle sources and Samoan influence in the northwestern Lau backarc basin. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	44
83	Iron isotopic evidence for convective resurfacing of recycled arc-front mantle beneath back-arc basins. <i>Geophysical Research Letters</i> , 2013, 40, 5849-5853.	4.0	44
84	Frozen melt–rock reaction in a peridotite xenolith from sub-arc mantle recorded by diffusion of trace elements and water in olivine. <i>Earth and Planetary Science Letters</i> , 2015, 422, 169-181.	4.4	44
85	Laser ablation–inductively coupled plasma–mass spectrometry and tephras: A new approach to understanding arc-magma genesis. <i>Geology</i> , 1999, 27, 1119.	4.4	43
86	Igneous rocks of the Brook Street Terrane, New Zealand: Implications for Permian tectonics of eastern Gondwana and magma genesis in modern intra-oceanic volcanic arcs. <i>New Zealand Journal of Geology, and Geophysics</i> , 2005, 48, 167-183.	1.8	43
87	Petrological and experimental evidence for differentiation of water-rich magmas beneath St. Kitts, Lesser Antilles. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 98.	3.1	42
88	Silica-enriched mantle sources of subalkaline picrite-boninite-andesite island arc magmas. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 199, 287-303.	3.9	42
89	Reconciling petrological and isotopic mixing mechanisms in the Pitcairn mantle plume using stable Fe isotopes. <i>Earth and Planetary Science Letters</i> , 2019, 521, 60-67.	4.4	42
90	Lateral variation in crustal structure along the Lesser Antilles arc from petrology of crustal xenoliths and seismic receiver functions. <i>Earth and Planetary Science Letters</i> , 2019, 516, 12-24.	4.4	42

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91	Strongly undersaturated magmas in the Lesser Antilles island arc. <i>Earth and Planetary Science Letters</i> , 1973, 18, 285-295.	4.4	41
92	How to Create New Subduction Zones: A Global Perspective. <i>Oceanography</i> , 2019, 32, 160-174.	1.0	41
93	Implications for the primitive atmosphere of the oxidation state of Earth's upper mantle. <i>Nature</i> , 1980, 288, 72-74.	27.8	40
94	Coupled Hf <sup>176</sup> -Nd <sup>143</sup> -Pb isotope co-variations of HIMU oceanic island basalts from Mangaia, Cook-Austral islands, suggest an Archean source component in the mantle transition zone. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 112, 87-101.	3.9	40
95	A case of Ampferer-type subduction and consequences for the Alps and the Pyrenees. <i>Numerische Mathematik</i> , 2020, 320, 313-372.	1.4	40
96	Multiphase inclusions in plagioclase from anorthosites in the Stillwater Complex, Montana: implications for the origin of the anorthosites. <i>Contributions To Mineralogy and Petrology</i> , 1993, 114, 63-78.	3.1	39
97	Trace Element Stratigraphy of the Bellevue Core, Northern Bushveld: Multiple Magma Injections Obscured by Diffusive Processes. <i>Journal of Petrology</i> , 2014, 55, 859-882.	2.8	39
98	Multiple magma sources involved in marginal-sea formation: Pb, Sr, and Nd isotopic evidence from the Japan Sea region. <i>Geology</i> , 1998, 26, 619.	4.4	38
99	Using melt inclusions to determine parent-magma compositions of layered intrusions: Application to the Greenhills Complex (New Zealand), a platinum group minerals-bearing, island-arc intrusion. <i>Geology</i> , 2000, 28, 991.	4.4	37
100	Characterizing the effect of mantle source, subduction input and melting in the Fonualei Spreading Center, Lau Basin: Constraints on the origin of the boninitic signature of the back-arc lavas. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	37
101	Oxidised phase relations of a primitive basalt from Grenada, Lesser Antilles. <i>Contributions To Mineralogy and Petrology</i> , 2014, 167, 1.	3.1	36
102	Volcanic rocks of the Witu Islands, Papua New Guinea: The origin of magmas above the deepest part of the New Britain Benioff zone. <i>Bulletin of Volcanology</i> , 1978, 41, 609-655.	3.0	34
103	Laboratory wave velocity measurements on lower crustal xenoliths from Calcutteroo, South Australia. <i>Tectonophysics</i> , 1984, 101, 185-197.	2.2	34
104	Chlorine and fluorine partition coefficients and abundances in sub-arc mantle xenoliths (Kamchatka). <i>Geochimica Et Cosmochimica Acta</i> , 2017, 199, 324-350.	3.9	33
105	The Longwood Igneous Complex, Southland, New Zealand: A Permo-Jurassic, intra-oceanic, subduction-related, I-type batholithic complex. <i>Lithos</i> , 2011, 126, 1-21.	1.4	31
106	Generation of Silicic Melts in the Early Izu-Bonin Arc Recorded by Detrital Zircons in Proximal Arc Volcaniclastic Rocks From the Philippine Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3576-3591.	2.5	31
107	Reply to ?Comments on Nd/Sr isotopic compositions of lower crustal xenoliths-Evidence for the origin of mid-Tertiary felsic volcanics in Mexico? by K.L. Cameron and J.V. Robinson. <i>Contributions To Mineralogy and Petrology</i> , 1990, 104, 615-618.	3.1	29
108	Lu-Hf isotopic memory of plume-lithosphere interaction in the source of layered mafic intrusions, Windimurra Igneous Complex, Yilgarn Craton, Australia. <i>Earth and Planetary Science Letters</i> , 2013, 380, 151-161.	4.4	28



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109	Geochemical evolution of arc systems in the western Pacific: The ash and turbidite record recovered by drilling. <i>Geophysical Monograph Series</i> , 1995, , 45-65.	0.1	26
110	Landforms predict phylogenetic structure on one of the world's most ancient surfaces. <i>BMC Evolutionary Biology</i> , 2008, 8, 152.	3.2	26
111	Ancient xenocrystic zircon in young volcanic rocks of the southern Lesser Antilles island arc. <i>Lithos</i> , 2017, 290-291, 228-252.	1.4	26
112	SHRIMP ion probe zircon geochronology and Sr and Nd isotope geochemistry for southern Longwood Range and Bluff Peninsula intrusive rocks of Southland, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2006, 49, 291-303.	1.8	25
113	Magma mixing in the San Francisco Volcanic Field, AZ. <i>Contributions To Mineralogy and Petrology</i> , 1989, 102, 429-453.	3.1	24
114	Generation and Modification of the Mantle Wedge and Lithosphere beneath the West Bismarck Island Arc: Melting, Metasomatism and Thermal History of Peridotite Xenoliths from Ritter Island. <i>Journal of Petrology</i> , 2017, 58, 1475-1510.	2.8	24
115	Primary Silica-rich Picrite and High-Ca Boninite Melt Inclusions in Pyroxenite Veins from the Kamchatka Sub-arc Mantle. <i>Journal of Petrology</i> , 2016, 57, 1955-1982.	2.8	23
116	Sulfur isotope signatures in the lower crust: A SIMS study on S-rich scapolite of granulites. <i>Chemical Geology</i> , 2017, 454, 54-66.	3.3	23
117	Iron isotope variability in ocean floor lavas and mantle sources in the Lau back-arc basin. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 241, 150-163.	3.9	23
118	Basalt derived from highly refractory mantle sources during early Izu-Bonin-Mariana arc development. <i>Nature Communications</i> , 2021, 12, 1723.	12.8	23
119	SW Pacific arc and backarc lavas and the role of slab-bend serpentinites in the global halogen cycle. <i>Earth and Planetary Science Letters</i> , 2020, 530, 115921.	4.4	22
120	Garnet-pyroxene-amphibole xenoliths from Chino Valley, Arizona, and implications for continental lithosphere below the Moho. <i>Journal of Geophysical Research</i> , 1994, 99, 683-696.	3.3	21
121	The Fonualei Rift and Spreading Center: Effects of ultraslow spreading and arc proximity on backarc crustal accretion. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 4814-4835.	3.4	21
122	Electrochemical measurements and thermodynamic calculations of redox equilibria in pallasite meteorites: Implications for the eucrite parent body. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 1803-1815.	3.9	20
123	Regional Petrology of the San Francisco Volcanic Field, Arizona, USA. <i>Journal of Petrology</i> , 1995, 36, 827-861.	2.8	20
124	Pb-isotopic evidence for rapid trench-parallel mantle flow beneath Vanuatu. <i>Journal of the Geological Society</i> , 2011, 168, 265-271.	2.1	20
125	The genesis of the calc-alkaline rock suite. <i>Earth and Planetary Science Letters</i> , 1972, 15, 255-262.	4.4	19
126	New hydrothermal activity and alkalic volcanism in the backarc Coriolis Troughs, Vanuatu. <i>Geology</i> , 2005, 33, 61.	4.4	19



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127	Temporal Variations in U-series Disequilibria in an Active Caldera, Rabaul, Papua New Guinea. <i>Journal of Petrology</i> , 2009, 50, 507-529.	2.8	19
128	Mantle hotspot neon in basalts from the Northwest Lau Backarc Basin. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	19
129	The fate of subducted oceanic crust: a mineral segregation model. <i>International Geology Review</i> , 2011, 53, 879-893.	2.1	18
130	Mantle flow, volatiles, slab surface temperatures and melting dynamics in the north Tonga arc Lau backarc basin. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	18
131	The 8 Aug 2019 eruption of Volcano F <sup>TM</sup> in the Tofua Arc, Tonga. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 390, 106695.	2.1	18
132	Selective ingress of a Samoan plume component into the northern Lau backarc basin. <i>Nature Communications</i> , 2015, 6, 6554.	12.8	17
133	Eclogite, pyroxenite and amphibolite inclusions in the Sullivan Buttes Latite, Chino Valley, Yavari County, Arizona. , 1979, , 309-317.		16
134	Prograde Sulfide Metamorphism in Blueschist and Eclogite, New Caledonia. <i>Journal of Petrology</i> , 2014, 55, 643-670.	2.8	15
135	Origin of the Willaumez-Manus Rise, Papua New Guinea. <i>Earth and Planetary Science Letters</i> , 1979, 44, 247-260.	4.4	14
136	Bamus volcano, Papua New Guinea: Dormant neighbour of Ulawun, and magnesian-andesite locality. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1983, 72, 207-237.	1.3	14
137	Standard molar Gibbs free energy of formation for Cu <sub>2</sub> O: high-resolution electrochemical measurements from 900 to 1300 K. <i>Journal of Chemical Thermodynamics</i> , 1989, 21, 351-361.	2.0	14
138	Genesis of Continental Crust: Evidence from Island Arcs, Granulites, and Exospheric Processes. , 1990, , 7-23.		14
139	Geodynamic implications for zonal and meridional isotopic patterns across the northern Lau and North ortho Backarc basins. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 1013-1042.	2.5	14
140	Using precious metal probes to quantify mid-ocean ridge magmatic processes. <i>Earth and Planetary Science Letters</i> , 2021, 553, 116603.	4.4	14
141	Evolution of chalcophile elements in the magmas of the Bonin Islands. <i>Chemical Geology</i> , 2019, 508, 234-249.	3.3	13
142	Silica-rich spinel harzburgite residues formed by fractional hybridization-melting of the intra-oceanic supra-subduction zone mantle: New evidence from TUBAF seamount peridotites. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 293, 477-506.	3.9	13
143	Electrochemical measurements bearing on the oxidation state of the Skaergaard Layered Intrusion. <i>Contributions To Mineralogy and Petrology</i> , 1989, 102, 376-388.	3.1	12
144	Geochemistry of basalt from the Ayu Trough, equatorial western Pacific. <i>Earth and Planetary Science Letters</i> , 2006, 248, 700-714.	4.4	12

#	ARTICLE	IF	CITATIONS
145	The 1994–2001 eruptive period at Rabaul, Papua New Guinea: Petrological and geochemical evidence for basalt injections into a shallow dacite magma reservoir, and significant SO <sub>2</sub> flux. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 345, 200-217.	2.1	12
146	Rare Earth Element Evidence for the Petrogenesis of the Banded Series of the Stillwater Complex, Montana, and its Anorthosites. <i>Journal of Petrology</i> , 1994, 35, 1623-1649.	2.8	11
147	Asteroids and andesites. <i>Nature</i> , 2009, 459, E1-E1.	27.8	11
148	Sedimentary and volcanic record of the nascent Izu-Bonin-Mariana arc from IODP Site U1438. <i>Bulletin of the Geological Society of America</i> , 2020, , .	3.3	11
149	Hydrothermal activity in the Northwest Lau Backarc Basin: Evidence from water column measurements. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	10
150	Petrogenesis of alkalic and calcalkalic volcanic rocks of Mormon Mountain Volcanic Field, Arizona. <i>Contributions To Mineralogy and Petrology</i> , 1986, 94, 416-426.	3.1	9
151	Evolution of arc magmas and their volatiles. <i>Geophysical Monograph Series</i> , 2004, , 95-108.	0.1	9
152	Upper Zone of the Archean Windimurra layered mafic intrusion, Western Australia: insights into fractional crystallisation in a large magma chamber. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2013, 191, 83-107.	0.3	9
153	Low-Ca boninite formation by second-stage melting of spinel harzburgite residues at mature subduction zones: new evidence from veined mantle xenoliths from the West Bismarck Arc. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	3.1	8
154	Volcaniclastic sandstones record the influence of subducted Pacific MORB on magmatism at the early Izu-Bonin arc. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 296, 170-188.	3.9	8
155	Deeply explosive. <i>Nature Geoscience</i> , 2011, 4, 737-738.	12.9	7
156	Reply to 'Unclear causes for subduction'. <i>Nature Geoscience</i> , 2016, 9, 338-339.	12.9	7
157	Incremental Growth of Layered Mafic-Ultramafic Intrusions Through Melt Replenishment Into a Crystal Mush Zone Traced by Fe-Hf Isotope Systematics. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	7
158	Boninites. , 2021, , 113-129.		6
159	Compositions and Classification of Fractionated Boninite Series Melts from the Izu–Bonin–Mariana Arc: A Machine Learning Approach. <i>Journal of Petrology</i> , 2021, 62, .	2.8	6
160	The Magnetite Crisis in the Evolution of Arc-related Magmas and the Initial Concentration of Au, Ag and Cu. <i>Journal of Petrology</i> , 2012, 53, 1089-1089.	2.8	5
161	Isotopic Characteristics of Neogene–Quaternary Tephra From IODP Site U1438: A Record of Explosive Volcanic Activity in the Kyushu–Yukyu Arc. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 2318-2333.	2.5	5
162	<sup>40</sup> Ar/ <sup>39</sup> Ar and K-Ar geochronological age constraints for the inception and early evolution of the Izu-Bonin - Mariana arc system. <i>Island Arc</i> , 1998, 7, 579-595.	1.1	5

#	ARTICLE	IF	CITATIONS
163	Shallow Seafloor Gas emissions Near Heard and McDonald Islands on the Kerguelen Plateau, Southern Indian Ocean. <i>Earth and Space Science</i> , 2020, 7, e2019EA000695.	2.6	4
164	Reply to comments on "Redistribution of trace elements during prograde metamorphism from lawsonite blueschist to eclogite facies: implications for deep subduction zone processes". <i>Contributions To Mineralogy and Petrology</i> , 2004, 148, 506-509.	3.1	3
165	Morphotectonic Analysis of the East Manus Basin, Papua New Guinea. <i>Frontiers in Earth Science</i> , 2021, 8, .	1.8	3
166	Arc Magmatism—An Unresolved Problem of Sources, Material Fluxes, Tectonic Evolution and Thermochemical Regions of Subduction Zones. , 1985, , 367-397.		3
167	Spinel Harzburgite-Derived Silicate Melts Forming Sulfide-Bearing Orthopyroxenite in the Lithosphere. Part 1: Partition Coefficients and Volatile Evolution Accompanying Fluid- and Redox-Induced Sulfide Formation. <i>Frontiers in Earth Science</i> , 0, 10, .	1.8	3
168	Emplacement processes of proto-arc basalt in the Izu-Bonin-Mariana arc system. <i>Island Arc</i> , 2021, 30, e12401.	1.1	2
169	Ti-V magnetite stratigraphy of the Upper Zone of the Windimurra Igneous Complex, Western Australia. <i>Ore Geology Reviews</i> , 2021, 128, 103922.	2.7	1
170	Using melt inclusions to determine parent-magma compositions of layered intrusions: Application to the Greenhills Complex (New Zealand), a platinum group minerals-bearing, island-arc intrusion. <i>Geology</i> , 2000, 28, 991-994.	4.4	1
171	Northern Tonga Arc and Fonualei Rifts: initial results from the NoToVE (SS11/2004) Research Voyage. <i>ASEG Extended Abstracts</i> , 2006, 2006, 1-5.	0.1	1
172	Exploring new drilling prospects in the southwest Pacific. <i>Scientific Drilling</i> , 0, 17, 45-50.	0.6	1
173	Platinum-Group Element Geochemistry and Magma Evolution of the Mount Hagen (Papua New Guinea) Magmatic System. <i>Journal of Petrology</i> , 2022, 63, .	2.8	1
174	Subaerial Volcanic Rocks of the Willaumez-Manus Rise, Papua New Guinea: A Key to the Origin of the Rise?. <i>Exploration Geophysics</i> , 1978, 9, 98-99.	1.1	0
175	Coriolis Troughs and southern New Hebrides Arc: primary tectonic results from the CoTroVE (SS06/2004) Research Voyage. <i>ASEG Extended Abstracts</i> , 2006, 2006, 1-6.	0.1	0
176	Igneous Processes. , 2021, , 1-15.		0
177	Assessing the State of Our Knowledge of Continental Arc Volcanism: The Tatará-San Pedro Complex, 36°S, Andean Southern Volcanic Zone. <i>GSA Today</i> , 2007, 17, 22.	2.0	0
178	Scientific ocean drilling in the Australasian region: a review. <i>Australian Journal of Earth Sciences</i> , 2022, 69, 305-382.	1.0	0