Trevor J Falloon

List of Publications by Year in Descending Order

56 papers	3,517 citations	32 h-index	58 g-index
58 ext. papers	3,816 ext. citations	6.1 avg, IF	5.07 L-index

#	Paper	IF	Citations
56	The Paleozoic-Mesozoic magmatic evolution of the Eastern Tianshan, NW China: Constraints from geochronology and geochemistry of the Sanchakou intrusive complex. *Gondwana Research*, **2022**, 103, 1-22	5.1	0
55	Petrogenesis of Lava from Christmas Island, Northeast Indian Ocean: Implications for the Nature of Recycled Components in Non-Plume Intraplate Settings. *Geosciences (Switzerland)*, **2022**, 12, 118	2.7	0
54	Revisiting the Australian-Antarctic Ocean-Continent Transition Zone Using Petrological and Geophysical Characterization of Exhumed Subcontinental Mantle. *Geochemistry, Geophysics, Geosystems*, **2020**, 21, e2020GC009040	3.6	3
53	Early Cretaceous mantle upwelling and melting of juvenile lower crust in the Middle-Lower Yangtze River Metallogenic Belt: Example from Tongshankou Cu-(Mo W) ore deposit. *Gondwana Research*, **2020**, 83, 183-200	5.1	8
52	SW Pacific arc and backarc lavas and the role of slab-bend serpentinites in the global halogen cycle. *Earth and Planetary Science Letters*, **2020**, 530, 115921	5.3	12
51	Subduction initiation terranes exposed at the front of a 2 Ma volcanically-active subduction zone. *Earth and Planetary Science Letters*, **2019**, 508, 30-40	5.3	35
50	Partial Melting of Lower Oceanic Crust Gabbro: Constraints From Poikilitic Clinopyroxene Primocrysts. *Frontiers in Earth Science*, **2018**, 6,	3.5	14
49	Westward migration of oceanic ridges and related asymmetric upper mantle differentiation. *Lithos*, **2017**, 268-271, 163-173	2.9	11
48	Forearc Peridotites from Tonga Record Heterogeneous Oxidation of the Mantle following Subduction Initiation. *Journal of Petrology*, **2017**, 58, 1755-1780	3.9	39
47	Widespread Neogene volcanism on Central Kerguelen Plateau, Southern Indian Ocean. *Australian Journal of Earth Sciences*, **2016**, 63, 379-392	1.4	5
46	Mantle-derived magmas: intraplate, hot-spots and mid-ocean ridges. *Science Bulletin*, **2015**, 60, 1873-1900	10.6	20
45	Propagation of back-arc extension into the arc lithosphere in the southern New Hebrides volcanic arc. *Geochemistry, Geophysics, Geosystems*, **2015**, 16, 3142-3159	3.6	24
44	Experimental Study of the Influence of Water on Melting and Phase Assemblages in the Upper Mantle. *Journal of Petrology*, **2014**, 55, 2067-2096	3.9	96
43	Cretaceous fore-arc basalts from the Tonga arc: Geochemistry and implications for the tectonic history of the SW Pacific. *Tectonophysics*, **2014**, 630, 21-32	3.1	19
42	Primitive layered gabbros from fast-spreading lower oceanic crust. *Nature*, **2014**, 505, 204-7	50.4	85
41	Melting of plagioclase+spinel lherzolite at low pressures (0.5GPa): An experimental approach to the evolution of basaltic melt during mantle refertilisation at shallow depths. *Lithos*, **2013**, 172-173, 61-80	2.9	14
40	Basalts erupted along the Tongan fore arc during subduction initiation: Evidence from geochronology of dredged rocks from the Tonga fore arc and trench. *Geochemistry, Geophysics, Geosystems*, **2012**, 13,	3.6	68

39	Magmagenesis within the Hunter Ridge Rift Zone resolved from olivine-hosted melt inclusions and geochemical modelling with insights from geodynamic models. *Australian Journal of Earth Sciences*, **2012**, 59, 913-931	1.4	10
38	In situ location and U-Pb dating of small zircon grains in igneous rocks using laser ablation□inductively coupled plasma□quadrupole mass spectrometry. *Geochemistry, Geophysics, Geosystems*, **2011**, 12, n/a-n/a	3.6	32
37	Pyrite trace element geochemistry of mafic granulite xenoliths from Xikeer: implications for the source of Cu in the sediment-hosted mineralization in the northwestern Tarim Basin (Northwest China). *Mineralium Deposita*, **2011**, 46, 1001-1006	4.8	5
36	An Experimental Study of Liquid Compositions in Equilibrium with Plagioclase + Spinel Lherzolite at Low Pressures (0{middle dot}75 GPa). *Journal of Petrology*, **2010**, 51, 2349-2376	3.9	19
35	High-Mg adakites from Kadavu Island Group, Fiji, southwest Pacific: Evidence for the mantle origin of adakite parental melts. *Geology*, **2008**, 36, 499	5	45
34	The Composition of Near-solidus Partial Melts of Fertile Peridotite at 1 and 1□5 GPa: Implications for the Petrogenesis of MORB. *Journal of Petrology*, **2008**, 49, 591-613	3.9	67
33	Mantle dynamics and mantle melting beneath Niuafo□u Island and the northern Lau back-arc basin. *Contributions To Mineralogy and Petrology*, **2008**, 156, 103-118	3.5	33
32	Multiple mantle plume components involved in the petrogenesis of subduction-related lavas from the northern termination of the Tonga Arc and northern Lau Basin: Evidence from the geochemistry of arc and backarc submarine volcanics. *Geochemistry, Geophysics, Geosystems*, **2007**, 8, n/a-n/a	3.6	76
31	Middle and Late Ordovician magmatic evolution of the Macquarie Arc, Lachlan Orogen, New South Wales. *Australian Journal of Earth Sciences*, **2007**, 54, 181-214	1.4	88
30	The application of olivine geothermometry to infer crystallization temperatures of parental liquids: Implications for the temperature of MORB magmas. *Chemical Geology*, **2007**, 241, 207-233	4.2	60
29	Crystallization temperatures of tholeiite parental liquids: Implications for the existence of thermally driven mantle plumes **2007**, 235-260		12
28	Whole-rock geochemistry of the Hili Manu peridotite, East Timor: implications for the origin of Timor ophiolites *View all notes. *Australian Journal of Earth Sciences*, **2006**, 53, 637-649	1.4	17
27	Subduction-related magmatism at the southern tip of the North Fiji backarc basin. *ASEG Extended Abstracts*, **2006**, 2006, 1-8	0.2	1
26	Primary magmas at mid-ocean ridges, □otspots,□and other intraplate settings: Constraints on mantle potential temperature **2005**,		24
25	Crustal origin for coupled 'ultra-depleted' and 'plagioclase' signatures in MORB olivine-hosted melt inclusions: evidence from the Siqueiros Transform Fault, East Pacific Rise. *Contributions To Mineralogy and Petrology*, **2003**, 144, 619-637	3.5	79
24	Melt Inclusions in Olivine Phenocrysts: Using Diffusive Re-equilibration to Determine the Cooling History of a Crystal, with Implications for the Origin of Olivine-phyric Volcanic Rocks. *Journal of Petrology*, **2002**, 43, 1651-1671	3.9	112
23	Primary magmas and mantle temperatures. *European Journal of Mineralogy*, **2001**, 13, 437-451	2.2	125
22	Melting of Refractory Mantle at 1middle dot5, 2 and 2middle dot5 GPa under Anhydrous and H2O-undersaturated Conditions: Implications for the Petrogenesis of High-Ca Boninites and the Influence of Subduction Components on Mantle Melting. *Journal of Petrology*, **2000**, 41, 257-283	3.9	270

21	H2O Abundance in Depleted to Moderately Enriched Mid-ocean Ridge Magmas; Part I: Incompatible Behaviour, Implications for Mantle Storage, and Origin of Regional Variations. *Journal of Petrology*, **2000**, 41, 1329-1364	3.9	149
20	Calcic melt inclusions in primitive olivine at 43°N MAR: evidence for melt–rock reaction/melting involving clinopyroxene-rich lithologies during MORB generation. *Earth and Planetary Science Letters*, **1998**, 160, 115-132	5.3	102
19	Glasses in mantle xenoliths from western Victoria, Australia, and their relevance to mantle processes. *Earth and Planetary Science Letters*, **1997**, 148, 433-446	5.3	88
18	Experimental tests of low degree peridotite partial melt compositions: implications for the nature of anhydrous near-solidus peridotite melts at 1 GPa. *Earth and Planetary Science Letters*, **1997**, 152, 149-162	5.3	110
17	Quests for low-degree mantle melts. *Nature*, **1996**, 381, 285-285	50.4	19
16	A review of the petrology of harzburgites at Hess Deep and Garrett Deep: implications for mantle processes beneath segments of the East Pacific Rise. *Geological Society Special Publication*, **1996**, 118, 143-156	1.7	4
15	North Tongan high-Ca boninite petrogenesis: The role of samoan plume and subduction zone-transform fault transition. *Journal of Geodynamics*, **1995**, 20, 219-241	2.2	67
14	The H2O content of basalt glasses from Southwest Pacific back-arc basins. *Earth and Planetary Science Letters*, **1993**, 117, 347-362	5.3	113
13	Noble gases in submarine pillow basalt glasses from the Lau Basin: Detection of a solar component in backarc basin basalts. *Earth and Planetary Science Letters*, **1993**, 120, 135-148	5.3	54
12	Petrology and geochemistry of back-arc basin basalts from Lau Basin spreading ridges at 15°, 18° and 19°S. *Mineralogy and Petrology*, **1992**, 47, 1-35	1.6	77
11	The petrogenesis of high-calcium boninite lavas dredged from the northern Tonga ridge. *Earth and Planetary Science Letters*, **1991**, 102, 375-394	5.3	141
10	The mantle origins of Karoo picrites. *Earth and Planetary Science Letters*, **1991**, 107, 256-271	5.3	30
9	The Tasmantid Seamounts: shallow melting and contamination of an EM1 mantle plume. *Earth and Planetary Science Letters*, **1991**, 107, 448-462	5.3	17
8	Solidus of carbonated fertile peridotite under fluid-saturated conditions. *Geology*, **1990**, 18, 195	5	92
7	The solidus of carbonated, fertile peridotite. *Earth and Planetary Science Letters*, **1989**, 94, 364-370	5.3	158
6	Anhydrous Partial Melting of a Fertile and Depleted Peridotite from 2 to 30 kb and Application to Basalt Petrogenesis. *Journal of Petrology*, **1988**, 29, 1257-1282	3.9	306
5	Dredged igneous rocks from the northern termination of the Tofua magmatic arc, Tonga and adjacent Lau Basin. *Australian Journal of Earth Sciences*, **1987**, 34, 487-506	1.4	36
4	The origin of island arc high-alumina basalts. *Contributions To Mineralogy and Petrology*, **1987**, 97, 417-430	3.5	210

3	Anhydrous partial melting of MORB pyrolite and other peridotite compositions at 10 kbar: Implications for the origin of primitive MORB glasses. *Mineralogy and Petrology*, **1987**, 37, 181-219	1.6	169
2	Glass inclusions in magnesian olivine phenocrysts from Tonga: evidence for highly refractory parental magmas in the Tongan arc. *Earth and Planetary Science Letters*, **1986**, 81, 95-103	5.3	43
1	Pyrolite: A Ringwood Concept and Its Current Expression311-378		3