

# Anthony A P Koppers

## List of Publications by Citations

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87  
papers

4,179  
citations

33  
h-index

63  
g-index

102  
ext. papers

4,969  
ext. citations

5.8  
avg, IF

5.59  
L-index

#	Paper	IF	Citations
87	ArArCALC software for $^{40}\text{Ar}/^{39}\text{Ar}$ age calculations. <i>Computers and Geosciences</i> , <b>2002</b> , 28, 605-619	4.5	708
86	Ages and magnetic structures of the South China Sea constrained by deep tow magnetic surveys and IODP Expedition 349. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2014</b> , 15, 4958-4983	3.6	273
85	An immense shield volcano within the Shatsky Rise oceanic plateau, northwest Pacific Ocean. <i>Nature Geoscience</i> , <b>2013</b> , 6, 976-981	18.3	247
84	The return of subducted continental crust in Samoan lavas. <i>Nature</i> , <b>2007</b> , 448, 684-7	50.4	227
83	Testing the fixed hotspot hypothesis using $^{40}\text{Ar}/^{39}\text{Ar}$ age progressions along seamount trails. <i>Earth and Planetary Science Letters</i> , <b>2001</b> , 185, 237-252	5.3	182
82	PmagPy: Software package for paleomagnetic data analysis and a bridge to the Magnetism Information Consortium (MagIC) Database. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2016</b> , 17, 2450-2463	3.6	147
81	Short-lived and discontinuous intraplate volcanism in the South Pacific: Hot spots or extensional volcanism?. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2003</b> , 4,	3.6	137
80	Seismic stratigraphy of the central South China Sea basin and implications for neotectonics. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2015</b> , 120, 1377-1399	3.6	109
79	Dating crystalline groundmass separates of altered Cretaceous seamount basalts by the $^{40}\text{Ar}/^{39}\text{Ar}$ incremental heating technique. <i>Chemical Geology</i> , <b>2000</b> , 166, 139-158	4.2	98
78	High-resolution $^{40}\text{Ar}/^{39}\text{Ar}$ dating of the oldest oceanic basement basalts in the western Pacific basin. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2003</b> , 4, n/a-n/a	3.6	94
77	Forearc ages reveal extensive short-lived and rapid seafloor spreading following subduction initiation. <i>Earth and Planetary Science Letters</i> , <b>2019</b> , 506, 520-529	5.3	89
76	Data reporting norms for $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology. <i>Quaternary Geochronology</i> , <b>2009</b> , 4, 346-352	2.7	86
75	Implications of a nonlinear $^{40}\text{Ar}/^{39}\text{Ar}$ age progression along the Louisville seamount trail for models of fixed and moving hot spots. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2004</b> , 5,	3.6	86
74	Constraints on past plate and mantle motion from new ages for the Hawaiian-Emperor Seamount Chain. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2013</b> , 14, 4564-4584	3.6	81
73	The Magellan seamount trail: implications for Cretaceous hotspot volcanism and absolute Pacific plate motion. <i>Earth and Planetary Science Letters</i> , <b>1998</b> , 163, 53-68	5.3	76
72	Vailulu'u Seamount, Samoa: Life and death on an active submarine volcano. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 6448-53	11.5	70
71	Age and geochemistry of the oceanic Manihiki Plateau, SW Pacific: New evidence for a plume origin. <i>Earth and Planetary Science Letters</i> , <b>2011</b> , 304, 135-146	5.3	68

70	Samoa reinstated as a primary hotspot trail. <i>Geology</i> , <b>2008</b> , 36, 435	5	66
69	Limited latitudinal mantle plume motion for the Louisville hotspot. <i>Nature Geoscience</i> , <b>2012</b> , 5, 911-917	18.3	64
68	New insights into Phanerozoic tectonics of South China: Early Paleozoic sinistral and Triassic dextral transpression in the east Wuyishan and Chencai domains, NE Cathaysia. <i>Tectonics</i> , <b>2017</b> , 36, 819-853	4.3	62
67	Samoa hot spot track on a hot spot highway—Implications for mantle plumes and a deep Samoan mantle source. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2010</b> , 11, n/a-n/a	3.6	59
66	Asynchronous bends in Pacific seamount trails: a case for extensional volcanism?. <i>Science</i> , <b>2005</b> , 307, 904-7	33.3	59
65	Seamount Subduction and Earthquakes. <i>Oceanography</i> , <b>2010</b> , 23, 166-173	2.3	56
64	Late cretaceous polar wander of the pacific plate: evidence of a rapid true polar wander event. <i>Science</i> , <b>2000</b> , 287, 455-9	33.3	54
63	New <sup>40</sup> Ar/ <sup>39</sup> Ar age progression for the Louisville hot spot trail and implications for interhot spot motion. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2011</b> , 12, n/a-n/a	3.6	52
62	Defining the Word "Seamount". <i>Oceanography</i> , <b>2010</b> , 23, 20-21	2.3	49
61	Seamounts, knolls and petit-spot monogenetic volcanoes on the subducting Pacific Plate. <i>Basin Research</i> , <b>2008</b> , 20, 543-553	3.2	48
60	One hundred million years of mantle geochemical history suggest the retiring of mantle plumes is premature. <i>Earth and Planetary Science Letters</i> , <b>2008</b> , 275, 285-295	5.3	45
59	Age systematics of two young en echelon Samoan volcanic trails. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2011</b> , 12, n/a-n/a	3.6	43
58	Paleomagnetism of the southwestern U.S.A. recorded by 08 Ma igneous rocks. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2003</b> , 4,	3.6	41
57	Intraplate Seamounts as a Window into Deep Earth Processes. <i>Oceanography</i> , <b>2010</b> , 23, 42-57	2.3	39
56	On the relative motions of long-lived Pacific mantle plumes. <i>Nature Communications</i> , <b>2018</b> , 9, 854	17.4	37
55	Louisville Seamount Chain: Petrogenetic processes and geochemical evolution of the mantle source. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2014</b> , 15, 2380-2400	3.6	34
54	Vailulu'u undersea volcano: The New Samoa. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2000</b> , 1, n/a-n/a	3.6	31
53	Interpreting and reporting <sup>40</sup> Ar/ <sup>39</sup> Ar geochronologic data. <i>Bulletin of the Geological Society of America</i> , <b>2021</b> , 133, 461-487	3.9	28

52	In search of long-term hemispheric asymmetry in the geomagnetic field: Results from high northern latitudes. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2013</b> , 14, 3234-3249	3.6	27
51	Nonlinear $^{40}\text{Ar}/^{39}\text{Ar}$ age systematics along the Gilbert Ridge and Tokelau Seamount Trail and the timing of the Hawaii-Emperor Bend. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2007</b> , 8, n/a-n/a	3.6	25
50	Mantle plumes persevere. <i>Nature Geoscience</i> , <b>2011</b> , 4, 816-817	18.3	24
49	Geochemistry and age of Shatsky, Hess, and Ojin Rise seamounts: Implications for a connection between the Shatsky and Hess Rises. <i>Geochimica Et Cosmochimica Acta</i> , <b>2016</b> , 185, 302-327	5.5	24
48	Seamounts in the Subduction Factory. <i>Oceanography</i> , <b>2010</b> , 23, 176-181	2.3	23
47	Identification of the short-lived Santa Rosa geomagnetic excursion in lavas on Floreana Island (Galapagos) by $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology. <i>Geology</i> , <b>2016</b> , 44, 359-362	5	23
46	Hydrothermal venting at Vailulu'u Seamount: The smoking end of the Samoan chain. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2004</b> , 5, n/a-n/a	3.6	22
45	$^{87}\text{Sr}/^{86}\text{Sr}$ and $^{143}\text{Nd}/^{142}\text{Nd}$ isotopes and $^{40}\text{Ar}/^{39}\text{Ar}$ ages reveal a Hawaii-Emperor-style bend in the Rurutu hotspot. <i>Earth and Planetary Science Letters</i> , <b>2018</b> , 500, 168-179	5.3	19
44	Deeply dredged submarine HIMU glasses from the Tuvalu Islands, Polynesia: Implications for volatile budgets of recycled oceanic crust. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2015</b> , 16, 3210-3234	3.6	18
43	Geochemical evidence in the northeast Lau Basin for subduction of the Cook-Austral volcanic chain in the Tonga Trench. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2016</b> , 17, 1694-1724	3.6	17
42	The Canary record of the evolution of the North Atlantic Pliocene: New $^{40}\text{Ar}/^{39}\text{Ar}$ ages and some notable palaeontological evidence. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2015</b> , 435, 53-69	3.9	16
41	Mantle plumes and their role in Earth processes. <i>Nature Reviews Earth &amp; Environment</i> , <b>2021</b> , 2, 382-401	30.2	16
40	$^{40}\text{Ar}/^{39}\text{Ar}$ ages and zircon petrochronology for the rear arc of the Izu-Bonin-Marianas intra-oceanic subduction zone. <i>International Geology Review</i> , <b>2018</b> , 60, 956-976	2.3	15
39	Palaeomagnetic evidence for the persistence or recurrence of geomagnetic main field anomalies in the South Atlantic. <i>Earth and Planetary Science Letters</i> , <b>2016</b> , 441, 113-124	5.3	15
38	Scalable models of data sharing in Earth sciences. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2003</b> , 4,	3.6	13
37	Superplume mantle tracked isotopically the length of Africa from the Indian Ocean to the Red Sea. <i>Nature Communications</i> , <b>2019</b> , 10, 5493	17.4	12
36	Paleomagnetism and Paleosecular Variations From the Plio-Pleistocene Golan Heights Volcanic Plateau, Israel. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 4319-4335	3.6	11
35	Geographic and Oceanographic Influences on Ferromanganese Crust Composition Along a Pacific Ocean Meridional Transect, 14 N to 14S. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2020</b> , 21, e2019GC008716	3.6	11

34	Reshuffling the Columbia River Basalt chronology: Picture Gorge Basalt, the earliest- and longest-erupting formation. <i>Geology</i> , <b>2020</b> , 48, 348-352	5	10
33	A fluorescein tracer release experiment in the hydrothermally active crater of Vailulu'u volcano, Samoa. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		10
32	Hot Spot Rejuvenated Volcanism Superimposed on Plume-Derived Samoan Shield Volcanoes: Evidence From a 645-m Drill Core From Tutuila Island, American Samoa. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 1485-1507	3.6	10
31	Millennial-Scale Instability in the Geomagnetic Field Prior to the Matuyama-Brunhes Reversal. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2018</b> , 19, 952-967	3.6	9
30	Electronic data publication in geochemistry. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2003</b> , 4,	3.6	9
29	Vegetation succession and climate change across the Plio-Pleistocene transition in eastern Azerbaijan, central Eurasia (2.77–0.45 Ma). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2020</b> , 538, 109386	2.9	9
28	When Hotspots Move: The New View of Mantle Dynamics Made Possible by Scientific Ocean Drilling. <i>Oceanography</i> , <b>2019</b> , 32, 150-152	2.3	8
27	<sup>40</sup> Ar/ <sup>39</sup> Ar dating of oceanic plagiogranite: Constraints on the initiation of seafloor spreading in the South China Sea. <i>Lithos</i> , <b>2018</b> , 302-303, 421-426	2.9	8
26	High-Resolution <sup>40</sup> Ar/ <sup>39</sup> Ar Geochronology of the Louisville Seamounts IODP Expedition 330 Drill Sites: Implications for the Duration of Hot Spot-related Volcanism and Age Progressions. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 4073-4102	3.6	8
25	Simplifying Age Progressions within the Cook-Austral Islands using ARGUS-VI High-Resolution <sup>40</sup> Ar/ <sup>39</sup> Ar Incremental Heating Ages. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 4756-4778	3.6	8
24	Contrasting Old and Young Volcanism from Aitutaki, Cook Islands: Implications for the Origins of the Cook-Austral Volcanic Chain. <i>Journal of Petrology</i> , <b>2020</b> , 61,	3.9	7
23	Spatial and temporal variability in Marquesas Islands volcanism revealed by <sup>3</sup> He/ <sup>4</sup> He and the composition of olivine-hosted melt inclusions. <i>Chemical Geology</i> , <b>2018</b> , 477, 161-176	4.2	7
22	Seamount Catalog: Seamount Morphology, Maps, and Data Files. <i>Oceanography</i> , <b>2010</b> , 23, 37-37	2.3	7
21	IODP Expedition 330: Drilling the Louisville Seamount Trail in the SW Pacific. <i>Scientific Drilling</i> , 15, 11-22		7
20	Dating Clinopyroxene Phenocrysts in Submarine Basalts Using <sup>40</sup> Ar/ <sup>39</sup> Ar Geochronology. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 1041-1053	3.6	5
19	U-Th disequilibrium, (U-Th)/He and <sup>40</sup> Ar/ <sup>39</sup> Ar geochronology of distal Nisyros Kyra tephra deposits on Datça peninsula (SW Anatolia). <i>Quaternary Geochronology</i> , <b>2020</b> , 55, 101033	2.7	5
18	Ultraslow Spreading and Volcanism at the Eastern End of Gakkel Ridge, Arctic Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 6033-6050	3.6	5
17	Quaternary ring plain- and valley-confined pyroclastic deposits of Aragats stratovolcano (Lesser Caucasus): Lithofacies, geochronology and eruption history. <i>Journal of Volcanology and Geothermal Research</i> , <b>2020</b> , 401, 106928	2.8	4

16	Two-stages of plume tail volcanism formed Ojin Rise Seamounts adjoining Shatsky Rise. <i>Lithos</i> , <b>2020</b> , 372-373, 105652	2.9	4
15	Late Cretaceous Ridge Reorganization, Microplate Formation, and the Evolution of the Rio Grande Rise □Walvis Ridge Hot Spot Twins, South Atlantic Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2021</b> , 22, e2020GC009390	3.6	4
14	Paleogeotherms of a Midcrustal to Upper-Crustal Profile Across the Northern North China Block: Implications for the Thermal Structure of Continental Arcs. <i>Tectonics</i> , <b>2019</b> , 38, 706-721	4.3	3
13	Seamounts and Island Building <b>2015</b> , 405-421		3
12	Seamount Sciences: Quo Vadis?. <i>Oceanography</i> , <b>2010</b> , 23, 212-213	2.3	3
11	Rifting of the oceanic Azores Plateau with episodic volcanic activity. <i>Scientific Reports</i> , <b>2020</b> , 10, 19718	4.9	3
10	Volcanic shutdown of the Panama Canal area following breakup of the Farallon plate. <i>Lithos</i> , <b>2019</b> , 334-335, 190-204	2.9	3
9	Introduction to the Special Issue on Scientific Ocean Drilling: Looking to the Future. <i>Oceanography</i> , <b>2019</b> , 32, 14-15	2.3	2
8	Four-Dimensional Paleomagnetic Dataset: Plio-Pleistocene Paleodirection and Paleointensity Results From the Erebus Volcanic Province, Antarctica. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2021</b> , 126, e2020JB020834	3.6	2
7	Shipboard Characterization of Tuvalu, Samoa, and Lau Dredge Samples Using Laser-Induced Breakdown Spectroscopy (LIBS). <i>Applied Spectroscopy</i> , <b>2019</b> , 73, 623-637	3.1	1
6	Late Miocene and Early Pliocene coastal deposits from the Canary Islands: New records and paleoclimatic significance. <i>Journal of African Earth Sciences</i> , <b>2020</b> , 164, 103802	2.2	1
5	Large-Scale and Long-Term Volcanism on Oceanic Lithosphere. <i>Developments in Marine Geology</i> , <b>2014</b> , 553-597		1
4	Planning for Future Ocean Drilling With the JOIDES Resolution. <i>Eos</i> , <b>2013</b> , 94, 229-230	1.5	1
3	Seamounts, Ridges, and Reef Habitats of American Samoa <b>2012</b> , 791-806		1
2	Research-oriented data base for rock and paleomagnetism to be developed. <i>Eos</i> , <b>2002</b> , 83, 560	1.5	1
1	Thermochemical anomalies in the upper mantle control Gakkel Ridge accretion. <i>Nature Communications</i> , <b>2021</b> , 12, 6962	17.4	1