D A-H Teagle

List of Publications by Year
in descending order

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85 papers	4,948 citations	87888 38 h-index	95266 68 g-index
96 all docs	96 docs citations	96 times ranked	4659 citing authors

#	Article	IF	Citations
1	The uptake of carbon during alteration of ocean crust. Geochimica Et Cosmochimica Acta, 1999, 63, 1527-1535.	3.9	400
2	Sources of Metals and Fluids in Orogenic Gold Deposits: Insights from the Otago and Alpine Schists, New Zealand. Economic Geology, 2006, 101, 1525-1546.	3.8	324
3	Reconstructing Past Seawater Mg/Ca and Sr/Ca from Mid-Ocean Ridge Flank Calcium Carbonate Veins. Science, 2010, 327, 1114-1117.	12.6	243
4	Lithium and lithium isotope profiles through the upper oceanic crust: a study of seawaterâ€“basalt exchange at ODP Sites 504B and 896A. Earth and Planetary Science Letters, 2002, 201, 187-201.	4.4	241
5	Drilling to Gabbro in Intact Ocean Crust. Science, 2006, 312, 1016-1020.	12.6	230
6	Variable Quaternary chemical weathering fluxes and imbalances in marine geochemical budgets. Nature, 2009, 458, 493-496.	27.8	218
7	Hydrothermal alteration of upper oceanic crust formed at a fast-spreading ridge: mineral, chemical, and isotopic evidence from ODP Site 801. Chemical Geology, 2003, 201, 191-211.	3.3	191
8	Strontium alteration in the Troodos ophiolite: implications for fluid fluxes and geochemical transport in mid-ocean ridge hydrothermal systems. Earth and Planetary Science Letters, 1992, 113, 219-237.	4.4	153
9	Subsurface structure of a submarine hydrothermal system in ocean crust formed at the East Pacific Rise, ODP/IODP Site 1256. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	150
10	Hydrothermal fluid fluxes calculated from the isotopic mass balance of thallium in the ocean crust. Earth and Planetary Science Letters, 2006, 251, 120-133.	4.4	145
11	Imbalance in the oceanic strontium budget. Earth and Planetary Science Letters, 2003, 211, 173-187.	4.4	115
12	The deep structure of a sea-floor hydrothermal deposit. Nature, 1998, 392, 485-488.	27.8	109
13	Metabasalts as sources of metals in orogenic gold deposits. Mineralium Deposita, 2015, 50, 373-390.	4.1	107
14	Physicochemical Characterization of Airborne Particulate Matter at a Mainline Underground Railway Station. Environmental Science & Technology, 2013, 47, 3614-3622.	10.0	97
15	Incursion of meteoric waters into the ductile regime in an active orogen. Earth and Planetary Science Letters, 2014, 399, 1-13.	4.4	90
16	SULFIDE EVOLUTION DURING PROGRADE METAMORPHISM OF THE OTAGO AND ALPINE SCHISTS, NEW ZEALAND. Canadian Mineralogist, 2010, 48, 1267-1295.	1.0	89
17	Extreme hydrothermal conditions at an active plate-bounding fault. Nature, 2017, 546, 137-140.	27.8	84
18	Sedimentological and geochemical evidence for multistage failure of volcanic island landslides: A case study from Icod landslide on north Tenerife, Canary Islands. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	78

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19	Tracing the chemical evolution of fluids during hydrothermal recharge: Constraints from anhydrite recovered in ODP Hole 504B. Earth and Planetary Science Letters, 1998, 155, 167-182.	4.4	77
20	Recharge flux to ocean-ridge black smoker systems: a geochemical estimate from ODP Hole 504B. Earth and Planetary Science Letters, 2003, 210, 81-89.	4.4	69
21	A quantitative evaluation of the public response to climate engineering. Nature Climate Change, 2014, 4, 106-110.	18.8	67
22	The Effects on Bronchial Epithelial Mucociliary Cultures of Coarse, Fine, and Ultrafine Particulate Matter From an Underground Railway Station. Toxicological Sciences, 2015, 145, 98-107.	3.1	64
23	The contribution of hydrothermally altered ocean crust to the mantle halogen and noble gas cycles. Geochimica Et Cosmochimica Acta, 2016, 183, 106-124.	3.9	64
24	Structural controls on gold-bearing quartz mineralization in a duplex thrust system, Hyde-Macraes shear zone, Otago Schist, New Zealand. Economic Geology, 1990, 85, 1711-1719.	3.8	63
25	Changes in hot spring temperature and hydrogeology of the <scp>A</scp>lpine <scp>F</scp>ault hanging wall, <scp>N</scp>ew <scp>Z</scp>ealand, induced by distal <scp>S</scp>outh <scp>I</scp>sland earthquakes. Geofluids, 2015, 15, 216-239.	0.7	62
26	Carbonate alteration of ophiolitic rocks in the Arabianâ€“Nubian Shield of Egypt: sources and compositions of the carbonating fluid and implications for the formation of Au deposits. International Geology Review, 2017, 59, 391-419.	2.1	57
27	Linking basement carbonate vein compositions to porewater geochemistry across the eastern flank of the Juan de Fuca Ridge, ODP Leg 168. Earth and Planetary Science Letters, 2004, 219, 111-128.	4.4	56
28	Downhole variation of lithium and oxygen isotopic compositions of oceanic crust at East Pacific Rise, ODP Site 1256. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	55
29	The gold conveyor belt: Large-scale gold mobility in an active orogen. Ore Geology Reviews, 2014, 62, 129-142.	2.7	52
30	Determination of the volcanostratigraphy of oceanic crust formed at superfast spreading ridge: Electrofacies analyses of ODP/IODP Hole 1256D. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	51
31	Channelling of hydrothermal fluids during the accretion and evolution of the upper oceanic crust: Sr isotope evidence from ODP Hole 1256D. Earth and Planetary Science Letters, 2015, 416, 56-66.	4.4	50
32	Strontium and oxygen isotopic constraints on fluid mixing, alteration and mineralization in the TAG hydrothermal deposit. Chemical Geology, 1998, 149, 1-24.	3.3	49
33	Mobility of Au and related elements during the hydrothermal alteration of the oceanic crust: implications for the sources of metals in VMS deposits. Mineralium Deposita, 2016, 51, 179-200.	4.1	47
34	The fluid budget of a continental plate boundary fault: Quantification from the Alpine Fault, New Zealand. Earth and Planetary Science Letters, 2016, 445, 125-135.	4.4	45
35	Petrography and geochemistry of the Mesoarchean Bikoula banded iron formation in the Ntem complex (Congo craton), Southern Cameroon: Implications for its origin. Ore Geology Reviews, 2017, 80, 267-288.	2.7	45
36	The behavior of nitrogen and nitrogen isotopes during metamorphism and mineralization: Evidence from the Otago and Alpine Schists, New Zealand. Earth and Planetary Science Letters, 2005, 233, 229-246.	4.4	44

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37	Detecting hydrothermal graphite deposition during metamorphism and gold mineralization. Journal of the Geological Society, 2005, 162, 429-432.	2.1	43
38	Method for Ultra-Low-Level Analysis of Gold in Rocks. Analytical Chemistry, 2006, 78, 1290-1295.	6.5	41
39	Extraction and separation of rare earth elements from hydrothermal metalliferous sediments. Minerals Engineering, 2018, 118, 106-121.	4.3	39
40	Isotopic composition of gypsum in the Macquarie Island ophiolite: Implications for the sulfur cycle and the subsurface biosphere in oceanic crust. Geology, 2003, 31, 549.	4.4	38
41	Hydrothermal Alteration of Basalts beneath the Bent Hill Massive Sulfide Deposit, Middle Valley, Juan de Fuca Ridge. Economic Geology, 2004, 99, 561-584.	3.8	36
42	Hydrothermal fault zones in the lower oceanic crust: An example from Wadi Gideah, Samail ophiolite, Oman. Lithos, 2018, 323, 103-124.	1.4	36
43	Controls on thallium uptake during hydrothermal alteration of the upper ocean crust. Geochimica Et Cosmochimica Acta, 2014, 144, 25-42.	3.9	32
44	Petrophysical, Geochemical, and Hydrological Evidence for Extensive Fractureâ€Mediated Fluid and Heat Transport in the Alpine Fault's Hangingâ€Wall Damage Zone. Geochemistry, Geophysics, Geosystems, 2017, 18, 4709-4732.	2.5	31
45	Hydrothermal mobilisation of Au and other metals in supra-subduction oceanic crust: Insights from the Troodos ophiolite. Ore Geology Reviews, 2017, 86, 487-508.	2.7	28
46	Experimental study on mafic rock dissolution rates within CO2-seawater-rock systems. Geochimica Et Cosmochimica Acta, 2020, 272, 259-275.	3.9	28
47	The public remain uninformed and wary of climate engineering. Climatic Change, 2020, 160, 303-322.	3.6	26
48	Sedimentation of acantharian cysts in the Iceland Basin: Strontium as a ballast for deep ocean particle flux, and implications for acantharian reproductive strategies. Limnology and Oceanography, 2010, 55, 604-614.	3.1	25
49	Bedrock geology of DFDP-2B, central Alpine Fault, New Zealand. New Zealand Journal of Geology, and Geophysics, 2017, 60, 497-518.	1.8	24
50	Rhenium Enrichment in the Muratdere Cu-Mo (Au-Re) Porphyry Deposit, Turkey: Evidence from Stable Isotope Analyses (Î´34S, Î´18O, Î´D) and Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry Analysis of Sulfides. Economic Geology, 2019, 114, 1443-1466.	3.8	24
51	Geological storage of CO₂ within the oceanic crust by gravitational trapping. Geophysical Research Letters, 2013, 40, 6219-6224.	4.0	23
52	Hydrothermal cooling of the ocean crust: Insights from ODP Hole 1256D. Earth and Planetary Science Letters, 2017, 462, 110-121.	4.4	23
53	A re-assessment of the nitrogen geochemical behavior in upper oceanic crust from Hole 504B: Implications for subduction budget in Central America. Earth and Planetary Science Letters, 2019, 525, 115735.	4.4	23
54	Hydrothermal calcium-carbonate veins reveal past ocean chemistry. TrAC - Trends in Analytical Chemistry, 2011, 30, 1252-1268.	11.4	21

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55	Noble gases fingerprint a metasedimentary fluid source in the Macraes orogenic gold deposit, New Zealand. Mineralium Deposita, 2017, 52, 197-209.	4.1	21
56	Tracing the evolution of hydrothermal fluids in the upper oceanic crust: Sr-isotopic constraints from DSDP/ODP Holes 504B and 896A. Geological Society Special Publication, 1998, 148, 81-97.	1.3	19
57	Chlorine-rich amphibole in deep layered gabbros as evidence for brine/rock interaction in the lower oceanic crust: A case study from the Wadi Wariyah, Samail Ophiolite, Sultanate of Oman. Lithos, 2018, 323, 125-136.	1.4	16
58	Fluidâ€“rock interactions in the shallow Mariana forearc: carbon cycling and redox conditions. Solid Earth, 2019, 10, 907-930.	2.8	16
59	Metal fluxes during magmatic degassing in the oceanic crust: sulfide mineralisation at ODP site 786B, Izu-Bonin forearc. Mineralium Deposita, 2020, 55, 469-489.	4.1	16
60	IODP Expedition 335: Deep Sampling in ODP Hole 1256D. Scientific Drilling, 0, 13, 28-34.	0.6	16
61	Initial Results From the Oman Drilling Project Multiâ€Borehole Observatory: Petrogenesis and Ongoing Alteration of Mantle Peridotite in the Weathering Horizon. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022729.	3.4	16
62	ODP Site 1224: A missing link in the investigation of seafloor weathering. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	15
63	Evidence of mass failure in the Hess Deep Rift from multi-resolutional bathymetry data. Marine Geology, 2013, 339, 13-21.	2.1	15
64	Geochemical fluxes related to alteration of a subaerially exposed seamount: Nintoku seamount, ODP Leg 197, Site 1205. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	2.5	14
65	What Lies Beneath: The Formation and Evolution of Oceanic Lithosphere. Oceanography, 2019, 32, 138-149.	1.0	14
66	Carbon dioxide generation and drawdown during active orogenesis of siliciclastic rocks in the Southern Alps, New Zealand. Earth and Planetary Science Letters, 2018, 481, 305-315.	4.4	13
67	Geochemical Profiles Across the Listveniteâ€Metamorphic Transition in the Basal Megathrust of the Semail Ophiolite: Results From Drilling at OmanDP Hole BT1B. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022733.	3.4	13
68	Journey to the mantle of the Earth. Nature, 2011, 471, 437-439.	27.8	11
69	Listvenite Formation During Mass Transfer into the Leading Edge of the Mantle Wedge: Initial Results from Oman Drilling Project Hole BT1B. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	11
70	The structure and controls on fluid-rock interactions in ocean ridge hydrothermal systems: constraints from the Troodos ophiolite. Geological Society Special Publication, 1998, 148, 127-152.	1.3	10
71	Comment on â€œWhat do we know about the evolution of Mg to Ca ratios in seawater?â€•by Wally Broecker and Jimin Yu. Paleoceanography, 2011, 26, .	3.0	9
72	Hydrothermal contributions to global biogeochemical cycles: Insights from the Macquarie Island ophiolite. Lithos, 2016, 264, 329-347.	1.4	9

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73	The Origin of Carbonate Veins Within the Sedimentary Cover and Igneous Rocks of the Cocos Ridge: Results From IODP Hole U1414A. Geochemistry, Geophysics, Geosystems, 2018, 19, 3721-3738.	2.5	8
74	Hydrothermal Alteration of the Ocean Crust and Patterns in Mineralization With Depth as Measured by Microâ€Imaging Infrared Spectroscopy. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021976.	3.4	7
75	The Significance of Heat Transport by Shallow Fluid Flow at an Active Plate Boundary: The Southern Alps, New Zealand. Geophysical Research Letters, 2018, 45, 10,323.	4.0	6
76	Northeast Atlantic breakup volcanism and consequences for Paleogene climate change â€“ MagellanPlus Workshop report. Scientific Drilling, 0, 26, 69-85.	0.6	6
77	Workshop report: Exploring deep oceanic crust off Hawai`i. Scientific Drilling, 0, 29, 69-82.	0.6	5
78	Geochemical Characterization of the Oman Crustâ€Mantle Transition Zone, OmanDP Holes CM1A and CM2B. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	3
79	Secrets of the sea floor. Nature Geoscience, 2011, 4, 3-4.	12.9	2
80	Serpentinite in the Earth system. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190332.	3.4	2
81	Uplift and Exposure of Serpentinized Massifs: Modeling Differential Serpentinite Diapirism and Exhumation of the Troodos Mantle Sequence, Cyprus. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021079.	3.4	2
82	Ship-board determination of whole-rock (ultra-)trace element concentrations by laser ablation-inductively coupled plasma mass spectrometry analysis of pressed powder pellets aboard the D/V <i>Chikyu</i>. Scientific Drilling, 0, 30, 75-99.	0.6	2
83	Public engagement with emerging technologies: Does reflective thinking affect survey responses?. Public Understanding of Science, 2022, 31, 660-670.	2.8	1
84	Characterizing Hydration of the Ocean Crust Using Shortwave Infrared Microimaging Spectroscopy of ICDP Oman Drilling Project Cores. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022676.	3.4	1
85	Features of seafloor hydrothermal alteration in metabasalts of mid-ocean ridge origin from the Chrystalls Beach Complex. New Zealand Journal of Geology, and Geophysics, 2021, 64, 133-146.	1.8	0