

Andrea Koschinsky

List of Publications by Year in descending order

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106
papers

6,696
citations

81900

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62596

80
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109
all docs

109
docs citations

109
times ranked

4916
citing authors

#	ARTICLE	IF	CITATIONS
1	Trace Metal Dynamics in Shallow Hydrothermal Plumes at the Kermadec Arc. <i>Frontiers in Marine Science</i> , 2022, 8, .	2.5	8
2	Dynamic behavior of dissolved and soluble titanium along the salinity gradients in the Par�i and Amazon estuarine system and associated plume. <i>Marine Chemistry</i> , 2022, 238, 104067.	2.3	2
3	Clay Minerals and Sr-Nd Isotope Compositions of Core CG 1601 in the Northwest Pacific: Implications for Material Source and Rare Earth Elements Enrichments. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 287.	2.0	5
4	Quantifying the controlling mineral phases of rare-earth elements in deep-sea pelagic sediments. <i>Chemical Geology</i> , 2022, 595, 120792.	3.3	29
5	Crystal Chemistry of Thallium in Marine Ferromanganese Deposits. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1269-1285.	2.7	9
6	Hydrothermal activity and associated subsurface processes at Niuatahi rear-arc volcano, North East Lau Basin, SW Pacific: Implications from trace elements and stable isotope systematics in vent fluids. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 332, 103-123.	3.9	5
7	Fossil Bioapatites with Extremely High Concentrations of Rare Earth Elements and Yttrium from Deep-Sea Pelagic Sediments. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 2093-2103.	2.7	6
8	Imprint of Kairei and Pelagia deep-sea hydrothermal systems (Indian Ocean) on marine dissolved organic matter. <i>Organic Geochemistry</i> , 2021, 152, 104141.	1.8	7
9	Dissolved concentrations and organic speciation of copper in the Amazon River estuary and mixing plume. <i>Marine Chemistry</i> , 2021, 234, 104005.	2.3	12
10	Geochemical consequences of oxygen diffusion from the oceanic crust into overlying sediments and its significance for biogeochemical cycles based on sediments of the northeast Pacific. <i>Biogeosciences</i> , 2021, 18, 4965-4984.	3.3	6
11	Copper-binding ligands in deep-sea pore waters of the Pacific Ocean and potential impacts of polymetallic nodule mining on the copper cycle. <i>Scientific Reports</i> , 2021, 11, 18425.	3.3	7
12	Distribution and size fractionation of nickel and cobalt species along the Amazon estuary and mixing plume. <i>Marine Chemistry</i> , 2021, 236, 104019.	2.3	11
13	Trace Element and Isotope Systematics in Vent Fluids and Sulphides From Maka Volcano, North Eastern Lau Spreading Centre: Insights Into Three-Component Fluid Mixing. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	6
14	Quantifying the fuel consumption, greenhouse gas emissions and air pollution of a potential commercial manganese nodule mining operation. <i>Marine Policy</i> , 2020, 114, 103678.	3.2	27
15	Platinum enrichment and phase associations in marine ferromanganese crusts and nodules based on a multi-method approach. <i>Chemical Geology</i> , 2020, 539, 119426.	3.3	31
16	Post-depositional manganese mobilization during the last glacial period in sediments of the eastern Clarion-Clipperton Zone, Pacific Ocean. <i>Earth and Planetary Science Letters</i> , 2020, 532, 116012.	4.4	13
17	Near-field hydrothermal plume dynamics at Brothers Volcano (Kermadec Arc): A short-lived radium isotope study. <i>Chemical Geology</i> , 2020, 533, 119379.	3.3	10
18	Effects of Phosphatization on the Mineral Associations and Speciation of Pb in Ferromanganese Crusts. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1515-1526.	2.7	8

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19	Submarine Hydrothermal Discharge and Fluxes of Dissolved Fe and Mn, and He Isotopes at Brothers Volcano Based on Radium Isotopes. <i>Minerals</i> (Basel, Switzerland), 2020, 10, 969.	2.0	9
20	Impact of small-scale disturbances on geochemical conditions, biogeochemical processes and element fluxes in surface sediments of the eastern Clarion-Clipperton Zone, Pacific Ocean. <i>Biogeosciences</i> , 2020, 17, 1113-1131.	3.3	18
21	Geochemical time series of hydrothermal fluids from the slow-spreading Mid-Atlantic Ridge: Implications of medium-term stability. <i>Chemical Geology</i> , 2020, 552, 119760.	3.3	5
22	Deep-ocean polymetallic nodules as a resource for critical materials. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 158-169.	29.7	179
23	Geochemical characterization of highly diverse hydrothermal fluids from volcanic vent systems of the Kermadec intraoceanic arc. <i>Chemical Geology</i> , 2019, 528, 119289.	3.3	38
24	Inorganic and organic iron and copper species of the subterranean estuary: Origins and fate. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 259, 211-232.	3.9	19
25	Calcium phosphate control of REY patterns of siliceous-ooze-rich deep-sea sediments from the central equatorial Pacific. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 251, 56-72.	3.9	42
26	Parameters Governing the Community Structure and Element Turnover in Kermadec Volcanic Ash and Hydrothermal Fluids as Monitored by Inorganic Electron Donor Consumption, Autotrophic CO ₂ Fixation and 16S Tags of the Transcriptome in Incubation Experiments. <i>Frontiers in Microbiology</i> , 2019, 10, 2296.	3.5	14
27	Small-scale heterogeneity of trace metals including rare earth elements and yttrium in deep-sea sediments and porewaters of the Peru Basin, southeastern equatorial Pacific. <i>Biogeosciences</i> , 2019, 16, 4829-4849.	3.3	18
28	The influence of magmatic fluids and phase separation on B systematics in submarine hydrothermal vent fluids from back-arc basins. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 232, 140-162.	3.9	12
29	Processes affecting the isotopic composition of dissolved iron in hydrothermal plumes: A case study from the Vanuatu back-arc. <i>Chemical Geology</i> , 2018, 476, 70-84.	3.3	9
30	Biogeochemical Regeneration of a Nodule Mining Disturbance Site: Trace Metals, DOC and Amino Acids in Deep-Sea Sediments and Pore Waters. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	27
31	Deep-sea mining: Interdisciplinary research on potential environmental, legal, economic, and societal implications. <i>Integrated Environmental Assessment and Management</i> , 2018, 14, 672-691.	2.9	63
32	Geochemical characteristics, speciation and size-fractionation of iron (Fe) in two marine shallow-water hydrothermal systems, Dominica, Lesser Antilles. <i>Chemical Geology</i> , 2017, 454, 44-53.	3.3	18
33	Thermally altered marine dissolved organic matter in hydrothermal fluids. <i>Organic Geochemistry</i> , 2017, 110, 73-86.	1.8	57
34	Marine Ferromanganese Encrustations: Archives of Changing Oceans. <i>Elements</i> , 2017, 13, 177-182.	0.5	64
35	Boiling vapour-type fluids from the Nifonea vent field (New Hebrides Back-Arc, Vanuatu, SW Pacific): Geochemistry of an early-stage, post-eruptive hydrothermal system. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 207, 185-209.	3.9	31
36	Depth distribution of Zr and Nb in seawater: The potential role of colloids or organic complexation to explain non-scavenging-type behavior. <i>Marine Chemistry</i> , 2017, 188, 18-32.	2.3	9

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37	Mussel shells of <i>Mytilus edulis</i> as bioarchives of the distribution of rare earth elements and yttrium in seawater and the potential impact of pH and temperature on their partitioning behavior. <i>Biogeosciences</i> , 2016, 13, 751-760.	3.3	34
38	Voltammetric Investigation of Hydrothermal Iron Speciation. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	34
39	Fe- and Cu-Complex Formation with Artificial Ligands Investigated by Ultra-High Resolution Fourier-Transform ion Cyclotron Resonance Mass Spectrometry (FT-ICR-MS): Implications for Natural Metal-Organic Complex Studies. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	25
40	Marine Phosphorites as Potential Resources for Heavy Rare Earth Elements and Yttrium. <i>Minerals (Basel, Switzerland)</i> , 2016, 6, 88.	2.0	57
41	Hydrothermal Vent Fluids (Seafloor). <i>Encyclopedia of Earth Sciences Series</i> , 2016, , 339-344.	0.1	0
42	Sources and Forms of Trace Metals Taken Up by Hydrothermal Vent Mussels, and Possible Adaption and Mitigation Strategies. <i>Handbook of Environmental Chemistry</i> , 2016, , 97-122.	0.4	8
43	An experimental study on the mixing behavior of Ti, Zr, V and Mo in the Elbe, Rhine and Weser estuaries. <i>Estuarine, Coastal and Shelf Science</i> , 2016, 170, 34-44.	2.1	16
44	Determination of Zirconium and Vanadium in Natural Waters by Adsorptive Stripping Voltammetry in the Presence of Cupferron, Oxalic Acid and 1,3-Diphenylguanidine. <i>Electroanalysis</i> , 2015, 27, 1864-1870.	2.9	9
45	Leaching of soil-derived major and trace elements in an arable topsoil after the addition of biochar. <i>European Journal of Soil Science</i> , 2015, 66, 823-834.	3.9	26
46	Determination of Ti, Zr, Nb, V, W and Mo in seawater by a new online-preconcentration method and subsequent ICP-MS analysis. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 98, 83-93.	1.4	24
47	Investigating the potential of solid-phase extraction and Fourier-transform ion cyclotron resonance mass spectrometry (FT-ICR-MS) for the isolation and identification of dissolved metal-organic complexes from natural waters. <i>Marine Chemistry</i> , 2015, 173, 78-92.	2.3	60
48	Sequential Determination of 13 Elements in Complex Matrices by Stripping Voltammetry with Mixed Complexing Electrolytes. <i>Electroanalysis</i> , 2015, 27, 1625-1635.	2.9	6
49	Efficient removal of recalcitrant deep-ocean dissolved organic matter during hydrothermal circulation. <i>Nature Geoscience</i> , 2015, 8, 856-860.	12.9	104
50	Organic Cu-complexation at the shallow marine hydrothermal vent fields off the coast of Milos (Greece), Dominica (Lesser Antilles) and the Bay of Plenty (New Zealand). <i>Marine Chemistry</i> , 2015, 173, 244-252.	2.3	28
51	The ratio of tellurium and selenium in geological material as a possible paleo-redox proxy. <i>Chemical Geology</i> , 2014, 376, 44-51.	3.3	33
52	Phase associations and potential selective extraction methods for selected high-tech metals from ferromanganese nodules and crusts with siderophores. <i>Applied Geochemistry</i> , 2014, 43, 13-21.	3.0	38
53	Metal concentrations in the tissues of the hydrothermal vent mussel <i>Bathymodiolus</i> : Reflection of different metal sources. <i>Marine Environmental Research</i> , 2014, 95, 62-73.	2.5	15
54	Fractionation of the geochemical twins Zr-Hf and Nb-Ta during scavenging from seawater by hydrogenetic ferromanganese crusts. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 468-487.	3.9	56

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55	Discriminating between different genetic types of marine ferro-manganese crusts and nodules based on rare earth elements and yttrium. <i>Chemical Geology</i> , 2014, 381, 1-9.	3.3	363
56	Deep-ocean mineral deposits as a source of critical metals for high- and green-technology applications: Comparison with land-based resources. <i>Ore Geology Reviews</i> , 2013, 51, 1-14.	2.7	700
57	Determination of the Natural Dissolved Concentration of Zirconium in Seawater by Adsorptive Stripping Voltammetry. <i>Electroanalysis</i> , 2013, 25, 1628-1634.	2.9	5
58	Linking geology, fluid chemistry, and microbial activity of basalt- and ultramafic-hosted deep-sea hydrothermal vent environments. <i>Geobiology</i> , 2013, 11, 340-355.	2.4	44
59	Amelioration of free copper by hydrothermal vent microbes as a response to high copper concentrations. <i>Chemistry and Ecology</i> , 2012, 28, 405-420.	1.6	19
60	Geochemistry of vent fluid particles formed during initial hydrothermal fluid-seawater mixing along the Mid-Atlantic Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	26
61	Fluid elemental and stable isotope composition of the Nibelungen hydrothermal field (8°18'S), Tj ETQq1 1 0.784314 rgBT / Overlock <i>Geology</i> , 2011, 280, 1-18.	3.3	89
62	Metal flux from hydrothermal vents increased by organic complexation. <i>Nature Geoscience</i> , 2011, 4, 145-150.	12.9	265
63	Concentrations and distributions of dissolved amino acids in fluids from Mid-Atlantic Ridge hydrothermal vents. <i>Geochemical Journal</i> , 2010, 44, 387-397.	1.0	29
64	Voltammetric Determination of Low-Molecular-Weight Sulfur Compounds in Hydrothermal Vent Fluids – Studies with Hydrogen Sulfide, Methanethiol, Ethanethiol and Propanethiol. <i>Electroanalysis</i> , 2010, 22, 1066-1071.	2.9	10
65	Geochemical and physical structure of the hydrothermal plume at the ultramafic-hosted Logatchev hydrothermal field at 14°45'N on the Mid-Atlantic Ridge. <i>Marine Geology</i> , 2010, 271, 187-197.	2.1	23
66	Rare earth element distribution in >400°C hot hydrothermal fluids from 5°S, MAR: The role of anhydrite in controlling highly variable distribution patterns. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 4058-4077.	3.9	51
67	Rare earth elements in mussel shells of the Mytilidae family as tracers for hidden and fossil high-temperature hydrothermal systems. <i>Earth and Planetary Science Letters</i> , 2010, 299, 310-316.	4.4	110
68	Short-term microbial and physicochemical variability in low-temperature hydrothermal fluids near 5°S on the Mid-Atlantic Ridge. <i>Environmental Microbiology</i> , 2009, 11, 2526-2541.	3.8	44
69	Diking, young volcanism and diffuse hydrothermal activity on the southern Mid-Atlantic Ridge: The Lilliput field at 9°33'S. <i>Marine Geology</i> , 2009, 266, 52-64.	2.1	55
70	Voltammetric determination of Se(IV) and Se(VI) in saline samples – Studies with seawater, hydrothermal and hemodialysis fluids. <i>Analytica Chimica Acta</i> , 2009, 648, 162-166.	5.4	21
71	Oxidative scavenging of cerium on hydrous Fe oxide: Evidence from the distribution of rare earth elements and yttrium between Fe oxides and Mn oxides in hydrogenetic ferromanganese crusts. <i>Geochemical Journal</i> , 2009, 43, 37-47.	1.0	302
72	Hydrothermal venting at pressure-temperature conditions above the critical point of seawater, 5°S on the Mid-Atlantic Ridge. <i>Geology</i> , 2008, 36, 615.	4.4	155

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73	Geochemistry of hydrothermal fluids from the ultramafic-hosted Logatchev hydrothermal field, 15°N on the Mid-Atlantic Ridge: Temporal and spatial investigation. <i>Chemical Geology</i> , 2007, 242, 1-21.	3.3	246
74	Young volcanism and related hydrothermal activity at 5°S on the slow-spreading southern Mid-Atlantic Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, .	2.5	83
75	Organic complexation of copper in deep-sea hydrothermal vent systems. <i>Environmental Chemistry</i> , 2007, 4, 81.	1.5	61
76	Simultaneous Determination of Cadmium, Lead, Copper, and Thallium in Highly Saline Samples by Anodic Stripping Voltammetry (ASV) Using Mercury-Film and Bismuth-Film Electrodes. <i>Electroanalysis</i> , 2007, 19, 1719-1726.	2.9	53
77	Microbial CO ₂ fixation and sulfur cycling associated with low-temperature emissions at the Lilliput hydrothermal field, southern Mid-Atlantic Ridge (9°S). <i>Environmental Microbiology</i> , 2007, 9, 1186-1201.	3.8	64
78	The influence of ultramafic rocks on microbial communities at the Logatchev hydrothermal field, located 15°N on the Mid-Atlantic Ridge. <i>FEMS Microbiology Ecology</i> , 2007, 61, 97-109.	2.7	81
79	Hydrothermal fluid emanations from the submarine Kick'em Jenny volcano, Lesser Antilles island arc. <i>Marine Geology</i> , 2007, 244, 129-141.	2.1	8
80	Submarine hydrothermal venting related to volcanism in the Lesser Antilles: Evidence from ferromanganese precipitates. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	25
81	Hafnium and neodymium isotopes in seawater and in ferromanganese crusts: The "element perspective". <i>Earth and Planetary Science Letters</i> , 2006, 241, 952-961.	4.4	60
82	U-Th chronology and paleoceanographic record in a Fe-Mn crust from the NE Atlantic over the last 700 ka. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 4845-4854.	3.9	14
83	Mercury- and Silver-Rich Ferromanganese Oxides, Southern California Borderland: Deposit Model and Environmental Implications. <i>Economic Geology</i> , 2005, 100, 1151-1168.	3.8	5
84	Reactions of the Heavy Metal Cycle to Industrial Activities in the Deep Sea: An Ecological Assessment. <i>International Review of Hydrobiology</i> , 2003, 88, 102-127.	0.9	10
85	Uptake of elements from seawater by ferromanganese crusts: solid-phase associations and seawater speciation. <i>Marine Geology</i> , 2003, 198, 331-351.	2.1	376
86	Global occurrence of tellurium-rich ferromanganese crusts and a model for the enrichment of tellurium. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 1117-1127.	3.9	146
87	Enrichment of Mo in hydrothermal Mn precipitates: possible Mo sources, formation process and phase associations. <i>Chemical Geology</i> , 2003, 199, 29-43.	3.3	46
88	Importance of different types of marine particles for the scavenging of heavy metals in the deep-sea bottom water. <i>Applied Geochemistry</i> , 2003, 18, 693-710.	3.0	55
89	Redox speciation of chromium in the oceanic water column of the Lesser Antilles and offshore Otago Peninsula, New Zealand. <i>Marine and Freshwater Research</i> , 2003, 54, 745.	1.3	20
90	Geochemistry of diffuse low-temperature hydrothermal fluids in the North Fiji basin. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 1409-1427.	3.9	40

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91	Experiments on the influence of sediment disturbances on the biogeochemistry of the deep-sea environment. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 3629-3651.	1.4	34
92	The different diffusive transport behaviours of some metals in layers of Peru Basin surface sediment. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 3653-3681.	1.4	18
93	Sequential leaching of Peru Basin surface sediment for the assessment of aged and fresh heavy metal associations and mobility. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 3683-3699.	1.4	37
94	Heavy metal distributions in Peru Basin surface sediments in relation to historic, present and disturbed redox environments. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 3757-3777.	1.4	31
95	Recording changes in ENADW composition over the last 340 ka using high-precision lead isotopes in a Fe-Mn crust. <i>Earth and Planetary Science Letters</i> , 2001, 188, 73-89.	4.4	28
96	Deep-sea hydrothermal microplume generation - a case study from the North Fiji Basin. <i>Geo-Marine Letters</i> , 2001, 21, 94-102.	1.1	7
97	Geochemische Experimente zur Bindung von gelöststen Spurenmetallen an marine Feststoffe. , 2001, , 167-187.		0
98	Onboard-ship redox speciation of chromium in diffuse hydrothermal fluids from the North Fiji Basin. <i>Marine Chemistry</i> , 2000, 71, 83-102.	2.3	72
99	Pb and Nd isotopes in NE Atlantic Fe-Mn crusts: Proxies for trace metal paleosources and paleocean circulation. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 1489-1505.	3.9	164
100	Iron and manganese oxide mineralization in the Pacific. <i>Geological Society Special Publication</i> , 1997, 119, 123-138.	1.3	145
101	Effects of phosphatization on the geochemical and mineralogical composition of marine ferromanganese crusts. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 4079-4094.	3.9	147
102	Comparison of the partitioning behaviours of yttrium, rare earth elements, and titanium between hydrogenetic marine ferromanganese crusts and seawater. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 1709-1725.	3.9	504
103	Ferromanganese crusts as indicators for paleoceanographic events in the NE Atlantic. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1996, 85, 567-576.	1.3	49
104	In-situ enrichment of heavy metals from deep-sea water by an ion-exchange pump system. <i>Marine Georesources and Geotechnology</i> , 1996, 14, 297-314.	2.1	2
105	First investigations of massive ferromanganese crusts in the NE Atlantic in comparison with hydrogenetic pacific occurrences. <i>Marine Georesources and Geotechnology</i> , 1995, 13, 375-391.	2.1	34
106	Sequential leaching of marine ferromanganese precipitates: Genetic implications. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 5113-5132.	3.9	311