

# Alakendra N Roychoudhury

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

2,941  
citations

257429

24  
h-index

168376

53  
g-index

67  
all docs

67  
docs citations

67  
times ranked

4237  
citing authors

#	ARTICLE	IF	CITATIONS
1	The ferrozine method revisited: Fe(II)/Fe(III) determination in natural waters. <i>Applied Geochemistry</i> , 2000, 15, 785-790.	3.0	1,086
2	A global compilation of dissolved iron measurements: focus on distributions and processes in the Southern Ocean. <i>Biogeosciences</i> , 2012, 9, 2333-2349.	3.3	165
3	Title is missing!. <i>Biogeochemistry</i> , 2002, 60, 49-76.	3.5	146
4	Biogeochemical Cycles of Manganese and Iron at the Oxidic-Anoxic Transition of a Stratified Marine Basin (Orca Basin, Gulf of Mexico). <i>Environmental Science &amp; Technology</i> , 1998, 32, 2931-2939.	10.0	122
5	Salt marsh pore water geochemistry does not correlate with microbial community structure. <i>Estuarine, Coastal and Shelf Science</i> , 2005, 62, 233-251.	2.1	88
6	Chemically and Geographically Distinct Solid-Phase Iron Pools in the Southern Ocean. <i>Science</i> , 2012, 338, 1199-1201.	12.6	87
7	Pyritization: a palaeoenvironmental and redox proxy reevaluated. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 57, 1183-1193.	2.1	82
8	Microbiological and Geochemical Characterization of Microbial Fe(III) Reduction in Salt Marsh Sediments. <i>Geomicrobiology Journal</i> , 2000, 17, 163-178.	2.0	72
9	A plug flow-through reactor for studying biogeochemical reactions in undisturbed aquatic sediments. <i>Applied Geochemistry</i> , 1998, 13, 269-280.	3.0	68
10	Dissimilatory sulfate reduction in hypersaline coastal pans: Activity across a salinity gradient. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5102-5116.	3.9	52
11	Elemental (C, N, H and P) and stable isotope ( $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ ) signatures in sediments from Zeekoeflei, South Africa: a record of human intervention in the lake. <i>Journal of Paleolimnology</i> , 2008, 39, 349-360.	1.6	47
12	Kinetics of microbially mediated reactions: dissimilatory sulfate reduction in saltmarsh sediments (Sapelo Island, Georgia, USA). <i>Estuarine, Coastal and Shelf Science</i> , 2003, 56, 1001-1010.	2.1	41
13	Major and trace element geochemistry in Zeekoeflei, South Africa: A lacustrine record of present and past processes. <i>Applied Geochemistry</i> , 2008, 23, 2496-2511.	3.0	41
14	Rare earth and trace element geochemistry of termite mounds in central and northeastern Namibia: Mechanisms for micro-nutrient accumulation. <i>Geoderma</i> , 2009, 153, 217-230.	5.1	38
15	Methods for analyzing the concentration and speciation of major and trace elements in marine particles. <i>Progress in Oceanography</i> , 2015, 133, 32-42.	3.2	37
16	Reviewing evidence of marine ecosystem change off South Africa. <i>African Journal of Marine Science</i> , 2013, 35, 427-448.	1.1	36
17	Ubiquitous Presence of Fe(II) in Aquatic Colloids and Its Association with Organic Carbon. <i>Environmental Science and Technology Letters</i> , 2014, 1, 387-392.	8.7	36
18	Sources and historic changes in polycyclic aromatic hydrocarbon input in a shallow lake, Zeekoeflei, South Africa. <i>Organic Geochemistry</i> , 2008, 39, 1109-1112.	1.8	35

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19	Application, Chemical Interaction and Fate of Iron Minerals in Polluted Sediment and Soils. Current Pollution Reports, 2015, 1, 265-279.	6.6	34
20	Geochemical records of palaeoenvironmental controls on peat forming processes in the Mfabeni peatland, Kwazulu Natal, South Africa since the Late Pleistocene. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 395, 95-106.	2.3	33
21	Partitioning and mobility of trace metals in the Blesbokspruit: Impact assessment of dewatering of mine waters in the East Rand, South Africa. Applied Geochemistry, 2006, 21, 1044-1063.	3.0	32
22	Sulfate Respiration in Extreme Environments: A Kinetic Study. Geomicrobiology Journal, 2004, 21, 33-43.	2.0	29
23	Biomarker records of palaeoenvironmental variations in subtropical Southern Africa since the late Pleistocene: Evidences from a coastal peatland. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 451, 1-12.	2.3	27
24	Spatial characteristics of sediment trace metals in an eastern boundary upwelling retention area (St. Tj ETQq0 0 0 rgBT /Overlock 10 Tf Science, 2005, 65, 123-134.	2.1	26
25	Southern Ocean Seasonal Cycle Experiment 2012: Seasonal scale climate and carbon cycle links. South African Journal of Science, 2012, 108, .	0.7	24
26	A review of colloidal iron partitioning and distribution in the open ocean. Marine Chemistry, 2015, 177, 9-19.	2.3	24
27	Phosphorus dynamics in shallow eutrophic lakes: an example from Zeekoevlei, South Africa. Hydrobiologia, 2009, 619, 55-66.	2.0	23
28	Redox pathways in a petroleum contaminated shallow sandy aquifer: Iron and sulfate reductions. Science of the Total Environment, 2006, 366, 262-274.	8.0	22
29	Spatial and seasonal variations in depth profile of trace metals in saltmarsh sediments from Sapelo Island, Georgia, USA. Estuarine, Coastal and Shelf Science, 2007, 72, 675-689.	2.1	22
30	Biomarker evidence of macrophyte and plankton community changes in Zeekoevlei, a shallow lake in South Africa. Journal of Paleolimnology, 2009, 41, 507-521.	1.6	22
31	Adsorption and surface complexation modeling of palladium, rhodium and platinum in surficial semi-arid soils and sediment. Applied Geochemistry, 2009, 24, 86-95.	3.0	22
32	Kinetics of Sulfate Reduction in a Coastal Aquifer Contaminated with Petroleum Hydrocarbons. Biogeochemistry, 2006, 81, 17-31.	3.5	21
33	Phytoplankton response in growth, photophysiology and community structure to iron and light in the Polar Frontal Zone and Antarctic waters. Deep-Sea Research Part I: Oceanographic Research Papers, 2018, 141, 118-129.	1.4	21
34	Seasonal Depletion of the Dissolved Iron Reservoirs in the Sub-Antarctic Zone of the Southern Atlantic Ocean. Geophysical Research Letters, 2019, 46, 4386-4395.	4.0	21
35	The Nitrogen Isotopic Composition of Tissue and Shell-Bound Organic Matter of Planktic Foraminifera in Southern Ocean Surface Waters. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008440.	2.5	20
36	Winter and summer distributions of Copper, Zinc and Nickel along the International GEOTRACES Section GIPY05: Insights into deep winter mixing. Chemical Geology, 2019, 511, 342-357.	3.3	19

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37	Dispersion in Unconsolidated Aquatic Sediments. <i>Estuarine, Coastal and Shelf Science</i> , 2001, 53, 745-757.	2.1	18
38	Geochemical evaluation of soils and groundwater affected by infiltrating effluent from evaporation ponds of a heavy mineral processing facility, West Coast, South Africa. <i>Journal of Geochemical Exploration</i> , 2014, 144, 478-491.	3.2	18
39	Investigating nanoscale mineral compositions: Iron $L_{23}$ -edge spectroscopic evaluation of iron oxide and oxy-hydroxide coordination. <i>American Mineralogist</i> , 2017, 102, 674-685.	1.9	17
40	Cobalt Uptake and Resistance to Trace Metals in <i>Comamonas testosteroni</i> Isolated From a Heavy-Metal Contaminated Site in the Zambian Copperbelt. <i>Geomicrobiology Journal</i> , 2010, 27, 656-668.	2.0	16
41	Dissimilatory sulphate reduction in hypersaline coastal pans: an integrated microbiological and geochemical study. <i>Geobiology</i> , 2013, 11, 224-233.	2.4	16
42	A First Global Oceanic Compilation of Observational Dissolved Aluminum Data With Regional Statistical Data Treatment. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	14
43	Climatic variability in Mfabeni peatlands (South Africa) since the late Pleistocene. <i>Quaternary Science Reviews</i> , 2017, 160, 57-66.	3.0	12
44	Quantification of drying induced acidity at the mineral-water interface using ATR-FTIR spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 4846-4856.	3.9	11
45	n-Alkan-2-one biomarkers as a proxy for palaeoclimate reconstruction in the Mfabeni fen, South Africa. <i>Organic Geochemistry</i> , 2018, 120, 75-85.	1.8	11
46	Determination of Trace Metal (Mn, Fe, Ni, Cu, Zn, Co, Cd and Pb) Concentrations in Seawater Using Single Quadrupole ICP-MS: A Comparison between Offline and Online Preconcentration Setups. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1289.	2.0	11
47	Iron-Rich Nanoparticles in Natural Aquatic Environments. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 287.	2.0	9
48	Links Between the Phytoplankton Community Composition and Trace Metal Distribution in Summer Surface Waters of the Atlantic Southern Ocean. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	8
49	Responses of humpback whales to a changing climate in the Southern Hemisphere: Priorities for research efforts. <i>Marine Ecology</i> , 2020, 41, e12616.	1.1	8
50	Mobilisation of Iron from rocks in a fractured aquifer: Lithological and geochemical controls. <i>Applied Geochemistry</i> , 2013, 31, 171-186.	3.0	7
51	Geochemistry of Al and Fe in freshwater and coastal water colloids from the west coast of Southern Africa. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 241, 56-68.	3.9	6
52	Winter Biogeochemical Cycling of Dissolved and Particulate Cadmium in the Indian Sector of the Southern Ocean (GEOTRACES G1pr07 Transect). <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	6
53	Time dependent calibration of a sediment extraction scheme. <i>Marine Pollution Bulletin</i> , 2006, 52, 397-403.	5.0	5
54	The role of evaporation on the formation of secondary Cu-hydroxy minerals in the arid Namaqualand soil system of South Africa. <i>Applied Geochemistry</i> , 2014, 47, 52-60.	3.0	5

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55	The kinetics of ammonium uptake and oxidation across the Southern Ocean. <i>Limnology and Oceanography</i> , 2022, 67, 973-991.	3.1	5
56	A NEW IDEA IN MARSH CORING. <i>Soil Science Society of America Journal</i> , 2004, 68, 705.	2.2	4
57	Sulphate metabolism among thermophiles and hyperthermophiles in natural aquatic systems. <i>Biochemical Society Transactions</i> , 2004, 32, 172-174.	3.4	3
58	South African research in the Southern Ocean: New opportunities but serious challenges. <i>South African Journal of Science</i> , 2013, 109, 4.	0.7	3
59	Synchrotron X-ray radiation and the African earth sciences: A critical review. <i>Journal of African Earth Sciences</i> , 2020, 172, 104012.	2.0	2
60	Connecting pigment composition and dissolved trace elements to phytoplankton population in the southern Benguela Upwelling zone (St. Helena Bay). <i>Journal of Marine Systems</i> , 2017, 176, 13-23.	2.1	1
61	Source apportionment of the atmospheric Pb using a simulation-based inversion model: A case study from India uncovers bituminous road as the prime contributor of petroleum-derived Pb. <i>Applied Geochemistry</i> , 2022, 136, 105164.	3.0	1
62	Leaf wax and bulk stable carbon isotope records of plant type assemblages and palaeoenvironment changes in Mfabeni Peatland (South Africa), since the late Pleistocene. <i>Quaternary International</i> , 2016, 404, 201.	1.5	0
63	Early winter barium excess in the southern Indian Ocean as an annual remineralisation proxy (GEOTRACES GIPr07 cruise). <i>Biogeosciences</i> , 2022, 19, 3209-3224.	3.3	0