

# Joyanto Routh

## List of Publications by Year in descending order

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73  
papers

2,291  
citations

201575

27  
h-index

233338

45  
g-index

74  
all docs

74  
docs citations

74  
times ranked

2743  
citing authors

#	ARTICLE	IF	CITATIONS
1	Arsenic in Groundwater of the Bengal Delta Plain Aquifers in Bangladesh. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2002, 69, 538-545.	1.3	289
2	Environmental assessment of abandoned mine tailings in Adak, VÄsterbotten district (northern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	1.4	144
3	Sedimentary geochemical record of humanâ€“induced environmental changes in the Lake Brunnsviken watershed, Sweden. <i>Limnology and Oceanography</i> , 2004, 49, 1560-1569.	1.6	96
4	Distribution and mobilization of heavy metals at an acid mine drainage affected region in South China, a post-remediation study. <i>Science of the Total Environment</i> , 2020, 724, 138122.	3.9	87
5	Multi-proxy study of soil organic matter dynamics in permafrost peat deposits reveal vulnerability to climate change in the European Russian Arctic. <i>Chemical Geology</i> , 2014, 368, 104-117.	1.4	81
6	Diversity of arsenite oxidizing bacterial communities in arsenic-rich deltaic aquifers in West Bengal, India. <i>Frontiers in Microbiology</i> , 2014, 5, 602.	1.5	71
7	Sedimentary geochemical record of recent environmental changes around Lake Middle Marviken, Sweden. <i>Journal of Paleolimnology</i> , 2007, 37, 529-545.	0.8	67
8	Elemental and stable isotope records of organic matter input and its fate in the Pichavaram mangroveâ€“estuarine sediments (Tamil Nadu, India). <i>Marine Chemistry</i> , 2011, 126, 163-172.	0.9	65
9	Sulfur Cycling in the Terrestrial Subsurface: Commensal Interactions, Spatial Scales, and Microbial Heterogeneity. <i>Microbial Ecology</i> , 1998, 36, 141-151.	1.4	62
10	Mapping the degree of decomposition and thaw remobilization potential of soil organic matter in discontinuous permafrost terrain. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	61
11	<i>Arsenicococcus bolidensis</i> gen. nov., sp. nov., a novel actinomycete isolated from contaminated lake sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2004, 54, 605-608.	0.8	52
12	Elemental (C, N, H and P) and stable isotope ( $\delta^{15}N$ and $\delta^{13}C$ ) signatures in sediments from Zeekoeflei, South Africa: a record of human intervention in the lake. <i>Journal of Paleolimnology</i> , 2008, 39, 349-360.	0.8	47
13	A sediment record of recent nutrient loading and trophic state change in Lake Norrviken, Sweden. <i>Journal of Paleolimnology</i> , 2009, 42, 325-341.	0.8	43
14	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.	1.4	41
15	A Late Pleistocene-Holocene multi-proxy record of climate variability in the Jazmurian playa, southeastern Iran. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 514, 754-767.	1.0	40
16	Biogenic Evidences of Moonmilk Deposition in the Mawmluh Cave, Meghalaya, India. <i>Geomicrobiology Journal</i> , 2011, 28, 252-265.	1.0	39
17	Elemental and biomarker characteristics in a Pleistocene aquifer vulnerable to arsenic contamination in the Bengal Delta Plain, India. <i>Applied Geochemistry</i> , 2015, 61, 87-98.	1.4	38
18	Characterization and microbial utilization of dissolved lipid organic fraction in arsenic impacted aquifers (India). <i>Journal of Hydrology</i> , 2015, 527, 221-233.	2.3	36

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19	Sources and historic changes in polycyclic aromatic hydrocarbon input in a shallow lake, Zeekoevlei, South Africa. <i>Organic Geochemistry</i> , 2008, 39, 1109-1112.	0.9	35
20	An environmental record of changes in sedimentary organic matter from Lake Sattal in Kumaun Himalayas, India. <i>Science of the Total Environment</i> , 2009, 407, 2783-2795.	3.9	35
21	Trace-element geochemistry of Onion Creek near Van Stone lead-zinc mine (Washington, USA) – Chemical analysis and geochemical modeling. <i>Chemical Geology</i> , 1996, 133, 211-224.	1.4	34
22	Sediment biomarker profiles trace organic matter input in the Pichavaram mangrove complex, southeastern India. <i>Marine Chemistry</i> , 2015, 171, 44-57.	0.9	34
23	Characterization and Origin of Dissolved Organic Carbon in Yegua Ground Water in Brazos County, Texas. <i>Ground Water</i> , 2001, 39, 760-767.	0.7	32
24	Bulk organic matter characteristics in the Pichavaram mangrove – estuarine complex, south-eastern India. <i>Applied Geochemistry</i> , 2010, 25, 1176-1186.	1.4	32
25	Lake ecosystem responses to catchment disturbance and airborne pollution: an 800-year perspective in southern Sweden. <i>Journal of Paleolimnology</i> , 2013, 50, 545-560.	0.8	30
26	Metal accumulations in aquatic organisms and health risks in an acid mine-affected site in South China. <i>Environmental Geochemistry and Health</i> , 2021, 43, 4415-4440.	1.8	30
27	Trophodynamics and biomagnification of trace metals in aquatic food webs: The case of Rufiji estuary in Tanzania. <i>Applied Geochemistry</i> , 2019, 100, 160-168.	1.4	29
28	Distribution of arsenic and its mobility in shallow aquifer sediments from Ambikanagar, West Bengal, India. <i>Applied Geochemistry</i> , 2011, 26, 505-515.	1.4	27
29	Biomarker records of palaeoenvironmental variations in subtropical Southern Africa since the late Pleistocene: Evidences from a coastal peatland. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 451, 1-12.	1.0	27
30	Biogeochemical records of paleoenvironmental changes in Nainital Lake, Kumaun Himalayas, India. <i>Journal of Paleolimnology</i> , 2009, 42, 571-586.	0.8	26
31	Arsenic remobilization from sediments contaminated with mine tailings near the Adak mine in VÄsterbotten district (northern Sweden). <i>Journal of Geochemical Exploration</i> , 2007, 92, 43-54.	1.5	24
32	Combining limnology and palaeolimnology to investigate recent regime shifts in a shallow, eutrophic lake. <i>Journal of Paleolimnology</i> , 2014, 51, 437-448.	0.8	24
33	Phosphorus dynamics in shallow eutrophic lakes: an example from Zeekoevlei, South Africa. <i>Hydrobiologia</i> , 2009, 619, 55-66.	1.0	23
34	Biomarker evidence of macrophyte and plankton community changes in Zeekoevlei, a shallow lake in South Africa. <i>Journal of Paleolimnology</i> , 2009, 41, 507-521.	0.8	22
35	Organic geochemical record of increased productivity in Lake Naukuchiyatal, Kumaun Himalayas, India. <i>Environmental Earth Sciences</i> , 2010, 60, 837-843.	1.3	22
36	Polycyclic aromatic hydrocarbon fingerprints in the Pichavaram mangrove – estuarine sediments, southeastern India. <i>Organic Geochemistry</i> , 2012, 53, 88-94.	0.9	22

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37	Arsenic in the Pearl River Delta and its related waterbody, South China: occurrence and sources, a review. <i>Geoscience Letters</i> , 2021, 8, .	1.3	22
38	A 100-year record of changes in organic matter characteristics and productivity in Lake Bhimtal in the Kumaon Himalaya, NW India. <i>Journal of Paleolimnology</i> , 2013, 49, 129-143.	0.8	20
39	Trace metal fractionation in the Pichavaram mangrove estuarine sediments in southeast India after the tsunami of 2004. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 8197-8213.	1.3	20
40	Temperature and Monsoon Tango in a Tropical Stalagmite: Last Glacial-Interglacial Climate Dynamics. <i>Scientific Reports</i> , 2018, 8, 5386.	1.6	20
41	A century of human-induced environmental changes and the combined roles of nutrients and land use in Lake Victoria catchment on eutrophication. <i>Science of the Total Environment</i> , 2022, 835, 155425.	3.9	20
42	Sedimentary organic matter sources and depositional environment in the Yegua formation (Brazos) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	18
43	Evidences for Microbial Precipitation of Calcite in Speleothems from Krem Syndai in Jaintia Hills, Meghalaya, India. <i>Geomicrobiology Journal</i> , 2016, 33, 906-933.	1.0	18
44	Distribution, Behavior, and Sources of Polycyclic Aromatic Hydrocarbon in the Water Column, Sediments and Biota of the Rufiji Estuary, Tanzania. <i>Frontiers in Earth Science</i> , 2018, 6, .	0.8	18
45	Vegetation history and human-environment interactions through the late Holocene in Konar Sandal, SE Iran. <i>Quaternary Science Reviews</i> , 2018, 194, 143-155.	1.4	18
46	Distribution of polycyclic aromatic hydrocarbons in Kumaun Himalayan Lakes, northwest India. <i>Organic Geochemistry</i> , 2010, 41, 891-894.	0.9	17
47	<i>Arsenicococcus bolidensis</i> a novel arsenic reducing actinomycete in contaminated sediments near the Adak mine (northern Sweden): Impact on water chemistry. <i>Science of the Total Environment</i> , 2007, 379, 216-225.	3.9	16
48	A multi-proxy reconstruction of the late Holocene climate evolution in Lake Bolgoda, Sri Lanka. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 473, 16-25.	1.0	16
49	Sub-surface Biogeochemical Characteristics and Its Effect on Arsenic Cycling in the Holocene Gray Sand Aquifers of the Lower Bengal Basin. <i>Frontiers in Environmental Science</i> , 2017, 5, .	1.5	16
50	Environmental responses to the 9.7 and 8.2 cold events at two ecotonal sites in the Dovre mountains, mid-Norway. <i>Quaternary Science Reviews</i> , 2019, 205, 45-61.	1.4	15
51	Using biochemical and isotopic tracers to characterise organic matter sources and their incorporation into estuarine food webs (Rufiji delta, Tanzania). <i>Chemistry and Ecology</i> , 2017, 33, 893-917.	0.6	14
52	Temporal and spatial distribution of trace metals in the Rufiji delta mangrove, Tanzania. <i>Environmental Monitoring and Assessment</i> , 2018, 190, 336.	1.3	14
53	Speleothems from Sahastradhara Caves in Siwalik Himalaya, India: Possible Biogenic Inputs. <i>Geomicrobiology Journal</i> , 2014, 31, 664-681.	1.0	13
54	Coping with arsenic stress: Adaptations of arsenite oxidizing bacterial membrane lipids to increasing arsenic levels. <i>MicrobiologyOpen</i> , 2018, 7, e00594.	1.2	13

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55	Evaluating branched tetraether lipid-based palaeotemperature proxies in an urban, hyper-eutrophic polluted lake in South Africa. <i>Organic Geochemistry</i> , 2012, 53, 45-51.	0.9	12
56	Does Black Carbon Contribute to Eutrophication in Large Lakes?. <i>Current Pollution Reports</i> , 2016, 2, 236-238.	3.1	11
57	Release of Heavy Metals and Metalloids from Two Contaminated Soils to Surface Runoff in Southern China: A Simulated-Rainfall Experiment. <i>Water (Switzerland)</i> , 2019, 11, 1339.	1.2	11
58	Distribution and sources of organic matter in the Rufiji Delta in Tanzania: Variability and environmental implications. <i>Applied Geochemistry</i> , 2020, 122, 104733.	1.4	11
59	Coupling Between Seismic Activity and Hydrogeochemistry at the Shillong Plateau, Northeastern India. <i>Pure and Applied Geophysics</i> , 2008, 165, 45-61.	0.8	10
60	A multi-proxy reconstruction of the late Holocene climate evolution in the Kapsabet Swamp, Kenya (East Africa). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021, 574, 110475.	1.0	10
61	Contrasting lipid biomarkers in mountain rivers in the Nepal Himalayas: Organic matter characteristics and contribution to the fluvial carbon pool. <i>Geoscience Frontiers</i> , 2021, 12, 101231.	4.3	9
62	Role of aquifer media in determining the fate of polycyclic aromatic hydrocarbons in the natural water and sediments along the lower Ganges river basin. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2020, 55, 354-373.	0.9	8
63	Reconstruction of the Late Holocene climate and environmental history from North Bolgoda Lake, Sri Lanka, using lipid biomarkers and pollen records. <i>Journal of Quaternary Science</i> , 2020, 35, 514-525.	1.1	8
64	Arsenic Reduction by Indigenous Bacteria in Shallow Aquifers from Ambikanagar, West Bengal, India. <i>ACS Symposium Series</i> , 2005, , 132-147.	0.5	6
65	River morphology redistributes potentially toxic elements in acid mine drainage-impacted river sediments: Evidence, causes, and implications. <i>Catena</i> , 2022, 214, 106183.	2.2	5
66	Spatial variation of nutrients and primary productivity in the Rufiji Delta mangroves, Tanzania. <i>African Journal of Marine Science</i> , 2020, 42, 221-232.	0.4	3
67	Temporal dynamics of arsenic uptake and distribution: food and water risks in the Bengal basin. <i>Toxicological and Environmental Chemistry</i> , 2020, 102, 62-77.	0.6	3
68	Mid-Late Holocene Sub-Millennial Scale Inverse Trends of South Asian Summer and Winter Monsoons in Sri Lanka. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	3
69	Organic carbon characteristics in Swedish forest soil trace post-depositional carbon dynamics. <i>European Journal of Soil Science</i> , 2016, 67, 492-503.	1.8	2
70	Influence of transport mechanism on playa sequences, late Pleistocene-Holocene period in Jazmurian Playa, southeast Iran. <i>Arabian Journal of Geosciences</i> , 2022, 15, 1.	0.6	2
71	Sources, Distribution and Paleoenvironmental Application of Fatty Acids in Speleothem Deposits From Krem Mawmluh, Northeast India. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	1
72	Bulk carbon and lignin fingerprinting of catchment sediments transported by mountain rivers in Nepal Himalayas. <i>Catena</i> , 2022, 216, 106340.	2.2	1

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73	Influence of the Late Quaternary climate on sedimentology of the Jazmurian Playa, SE Iran. Journal of Paleolimnology, 0, , 1.	0.8	0