

Prosenjit Ghosh

List of Publications by Year in descending order

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71
papers

3,121
citations

394421

19
h-index

155660

55
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72
all docs

72
docs citations

72
times ranked

3173
citing authors

#	ARTICLE	IF	CITATIONS
1	Stable isotope on hilsa shad (<i>Tenualosa ilisha</i>) otoliths revealed migratory behavior of a population found in Hooghly River, West Bengal, India. <i>Environmental Biology of Fishes</i> , 2022, 105, 1909-1918.	1.0	4
2	Relic surface water (clay-pore water) input triggers arsenic release into the shallow groundwater of Bengal aquifers. <i>Journal of Earth System Science</i> , 2022, 131, 1.	1.3	9
3	Role of carbon and sulfur biogeochemical cycles on the seasonal arsenic mobilization process in the shallow groundwater of the Bengal aquifer. <i>Applied Geochemistry</i> , 2022, 141, 105322.	3.0	5
4	A multi-proxy ($\delta^{44}\text{Ca}$, Sr/Ca, and $\delta^{47}\text{Tl}$) study of fish otoliths for determination of seawater temperature. <i>Chemical Geology</i> , 2022, , 120950.	3.3	1
5	A triple oxygen isotope perspective on the origin, evolution, and diagenetic alteration of carbonatites. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 299, 52-68.	3.9	6
6	Convection, Terrestrial Recycling and Oceanic Moisture Regulate the Isotopic Composition of Precipitation at Srinagar, Kashmir. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD032853.	3.3	8
7	Seasonal freshwater flux estimation using mollusc from the tropical Mandovi Zuari estuary, Goa, India. <i>Journal of Earth System Science</i> , 2021, 130, 1.	1.3	0
8	Floating boat method for carbonate stable isotopic ratio determination in a GasBench II peripheral. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e9115.	1.5	2
9	A stable isotope toolbox for water and inorganic carbon cycle studies. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 699-719.	29.7	7
10	Estimation of seasonal base flow contribution to a tropical river using stable isotope analysis. <i>Journal of Hydrology</i> , 2021, 601, 126661.	5.4	4
11	Temperature estimates of lower Miocene (Burdigalian) coastal water of Southern India using a revised otolith $\delta^{18}\text{O}$ -clumped $\delta^{17}\text{O}$ isotope palaeothermometer. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009601.	2.5	3
12	Depthwise microbiome and isotopic profiling of a moderately saline microbial mat in a solar saltern. <i>Scientific Reports</i> , 2020, 10, 20686.	3.3	6
13	Fractionation of stable oxygen and clumped isotopes during acid digestion of calcite in the presence of an external direct current electric field. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8921.	1.5	1
14	<i>Ab initio</i> quantum chemical studies of isotopic fractionation during acid digestion reaction of dolomite for clumped isotope application. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8926.	1.5	0
15	Isotopic fractionation during acid digestion of calcite: A combined <i>ab initio</i> quantum chemical simulation and experimental study. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8790.	1.5	3
16	Technical Note: Developments and Applications in Triple Oxygen Isotope Analysis of Carbonates. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 702-710.	2.7	21
17	Clumped isotope geochemistry of carbonatites in the north-western Deccan igneous province: Aspects of evolution, post-depositional alteration and mineralisation. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 274, 118-135.	3.9	15
18	Performance assessment of hybrid fibrous fillers on the tribological and thermo-mechanical behaviors of elastomer modified phenolic resin friction composite. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	4

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19	Elastomer modified phenolic resin based composites with reduced scale friction: Influence of calcined petroleum coke on tribological and thermo-mechanical behavior. <i>Polymer Engineering and Science</i> , 2020, 60, 1446-1458.	3.1	8
20	Stable isotopic composition of rice grain organic matter marking an abrupt shift of hydroclimatic condition during the cultural transformation of Harappan civilization. <i>Quaternary International</i> , 2019, 512, 144-154.	1.5	6
21	Long term observations on stable isotope ratios in rainwater samples from twin stations over Southern India; identifying the role of amount effect, moisture source and rainout during the dual monsoons. <i>Climate Dynamics</i> , 2019, 52, 6893-6907.	3.8	17
22	Acid digestion of carbonates using break seal method for clumped isotope analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 203-214.	1.5	15
23	Sustainable bio-energy potential of perennial energy grass from reclaimed coalmine spoil (marginal) Tj ETQq1 1 0.784314 rgBT/Overload	8.9	15
24	Distribution of soil organic carbon and glomalin related soil protein in reclaimed coal mine-land chronosequence under tropical condition. <i>Science of the Total Environment</i> , 2018, 625, 1341-1350.	8.0	90
25	Stable Oxygen and Carbon Isotopic Composition of Rice (<i>Oryza sativa</i> L.) Grains as Recorder of Relative Humidity. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 423-439.	3.0	9
26	Strong sea forcing and warmer winter during solar minima $\frac{1}{4}$ 2765 Åyr ÅB.P. recorded in the growth bands of <i>Crassostrea</i> sp. from the confluence of river Ganges, Eastern India. <i>Quaternary International</i> , 2018, 479, 48-57.	1.5	2
27	Rainfall seasonality on the Indian subcontinent during the Cretaceous greenhouse. <i>Scientific Reports</i> , 2018, 8, 8482.	3.3	7
28	Moisture rainout fraction over the Indian Ocean during austral summer based on $\frac{^{18}\text{O}}{^{16}\text{O}}$ ratios of surface seawater, rainwater at latitude range of 10°N – 60°S . <i>Journal of Earth System Science</i> , 2018, 127, 1.	1.3	2
29	Oxygen isotope enrichment in rice (<i>Oryza sativa</i> L.) grain organic matter captures signature of relative humidity. <i>Plant Science</i> , 2018, 274, 503-513.	3.6	5
30	Need for re-apprehension of basin tectono-depositional set-up during initial stage of Himalayan orogeny from pedogenic evidences. <i>Catena</i> , 2017, 156, 102-112.	5.0	5
31	Extreme Monsoon Rainfall Signatures Preserved in the Invasive Terrestrial Gastropod <i>Lissachatina fulica</i> . <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3758-3770.	2.5	11
32	Estimates of land and sea moisture contributions to the monsoonal rain over Kolkata, deduced based on isotopic analysis of rainwater. <i>Earth System Dynamics</i> , 2017, 8, 313-321.	7.1	15
33	Isotopic disequilibrium in <i>Globigerina bulloides</i> and carbon isotope response to productivity increase in Southern Ocean. <i>Scientific Reports</i> , 2016, 6, 21533.	3.3	6
34	Tracking the migration of the Indian continent using the carbonate clumped isotope technique on Phanerozoic soil carbonates. <i>Scientific Reports</i> , 2016, 6, 22187.	3.3	11
35	Isotopic homogenization and scrambling associated with oxygen isotopic exchange on hot platinum: studies on gas pairs (O_2 , CO_2) and (CO , CO_2). <i>RSC Advances</i> , 2016, 6, 51296-51303.	3.6	10
36	Rainouts over the Arabian Sea and Western Ghats during moisture advection and recycling explain the isotopic composition of Bangalore summer rains. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6148-6163.	3.3	23

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37	Controlling factors of rainwater and water vapor isotopes at Bangalore, India: Constraints from observations in 2013 Indian monsoon. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13,936.	3.3	33
38	Influence of the upwelling events on the $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ of the benthic bivalve shells of the South Western Continental Margin of India. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	3
39	Fingerprinting environmental conditions and related stress using stable isotopic composition of rice (<i>Oryza sativa</i> L.) grain organic matter. <i>Ecological Indicators</i> , 2016, 61, 941-951.	6.3	9
40	Isotopic and geochemical characterization of invader tilapia fishes from water bodies of West Bengal and Karnataka, India. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 712.	2.7	7
41	Stable isotopic signature of Southern Ocean deep water CO ₂ ventilation. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 118, 177-185.	1.4	6
42	Diurnal and seasonal variation of mixing ratio and $\delta^{13}\text{C}$ of air CO ₂ observed at an urban station Bangalore, India. <i>Environmental Science and Pollution Research</i> , 2015, 22, 1877-1890.	5.3	6
43	Hydrographical characteristics and oxygen isotopic signatures of water in a coastal environment (Mangalore) along the southeastern Arabian Sea. <i>Journal of Oceanography</i> , 2014, 70, 251-266.	1.7	3
44	Biogeochemical facsimile of the organic matter quality and trophic status of a micro-tidal tropical estuary. <i>Environmental Earth Sciences</i> , 2013, 70, 729-742.	2.7	21
45	An experimental set-up for carbon isotopic analysis of atmospheric CO ₂ and an example of ecosystem response during solar eclipse 2010. <i>Journal of Earth System Science</i> , 2013, 122, 623-638.	1.3	4
46	Precision and long-term stability of clumped isotope analysis of CO ₂ using a small-sector isotope ratio mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 207-215.	1.5	15
47	Seasonal variability of rainfall recorded in growth bands of the Giant African Land Snail <i>Lissachatina fulica</i> (Bowdich) from India. <i>Chemical Geology</i> , 2013, 357, 223-230.	3.3	21
48	Short- and long-term temporal variations in salinity and the oxygen, carbon and hydrogen isotopic compositions of the Hooghly Estuary water, India. <i>Chemical Geology</i> , 2013, 335, 118-127.	3.3	22
49	Role of water contamination within the GC column of a GasBench II peripheral on the reproducibility of $\delta^{18}\text{O}/\delta^{16}\text{O}$ ratios in water samples. <i>Isotopes in Environmental and Health Studies</i> , 2011, 47, 498-511.	1.0	19
50	Rainwater Management and Harvesting Strategies for Human Needs: An Indian Perspective. <i>Environmental Science & Technology</i> , 2011, 45, 9469-9470.	10.0	5
51	Tracing the source of bottled water using stable isotope techniques. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 3323-3330.	1.5	17
52	Diurnal variation of atmospheric CO ₂ concentration and $\delta^{13}\text{C}$ in an urban atmosphere during winter – role of the Nocturnal Boundary Layer. <i>Journal of Atmospheric Chemistry</i> , 2010, 65, 1-12.	3.2	11
53	Chapter 8 Isotopic Tracers in Climatology. <i>Radioactivity in the Environment</i> , 2009, , 323-361.	0.2	0
54	Rise of the Andes. <i>Science</i> , 2008, 320, 1304-1307.	12.6	574

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55	Calibration of the carbonate $\delta^{13}\text{C}$ -clumped isotope paleothermometer for otoliths. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2736-2744.	3.9	113
56	^{13}C - ^{18}O bonds in carbonate minerals: A new kind of paleothermometer. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1439-1456.	3.9	707
57	Preferential formation of ^{13}C - ^{18}O bonds in carbonate minerals, estimated using first-principles lattice dynamics. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2510-2529.	3.9	395
58	Inter-basaltic clay (bole bed) horizons from Deccan traps of India: Implications for palaeo-weathering and palaeo-climate during Deccan volcanism. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 242, 90-109.	2.3	56
59	Rapid Uplift of the Altiplano Revealed Through ^{13}C - ^{18}O Bonds in Paleosol Carbonates. <i>Science</i> , 2006, 311, 511-515.	12.6	338
60	Response to Comment on "Rapid Uplift of the Altiplano Revealed Through ^{13}C - ^{18}O Bonds in Paleosol Carbonates". <i>Science</i> , 2006, 314, 760c-760c.	12.6	18
61	Atmospheric CO_2 During the Late Paleozoic and Mesozoic: Estimates from Indian Soils. , 2005, , 8-34.		6
62	Calcite- CO_2 mixed into CO_2 -free air: a new CO_2 -in-air stable isotope reference material for the VPDB scale. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 1097-1119.	1.5	63
63	The effect of N_2O on the isotopic composition of air- CO_2 samples. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 1830-1838.	1.5	22
64	Stable isotopic studies of palaeosol sediment from Upper Siwalik of Himachal Himalaya: evidence for high monsoonal intensity during late Miocene?. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2004, 206, 103-114.	2.3	23
65	Stable isotope ratio mass spectrometry in global climate change research. <i>International Journal of Mass Spectrometry</i> , 2003, 228, 1-33.	1.5	108
66	Dinosaur coprolites from the Late Cretaceous (Maastrichtian) Lameta Formation of India: isotopic and other markers suggesting a C3 plant diet. <i>Cretaceous Research</i> , 2003, 24, 743-750.	1.4	63
67	Isotopic analysis of Permo-Carboniferous Talchir sediments from East-Central India: signature of glacial melt-water lakes. <i>Chemical Geology</i> , 2002, 188, 261-274.	3.3	17
68	Trace element and isotopic studies of Permo-Carboniferous carbonate nodules from Talchir sediments of peninsular India: Environmental and provenance implications. <i>Journal of Earth System Science</i> , 2002, 111, 87-93.	1.3	7
69	CO_2 levels in the Late Palaeozoic and Mesozoic atmosphere from soil carbonate and organic matter, Satpura basin, Central India. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2001, 170, 219-236.	2.3	49
70	High permian CO_2 level: Evidence from Satpura Palaeosol, Central India. <i>Science Bulletin</i> , 1998, 43, 11-11.	1.7	2
71	Cenozoic Climatic Record for Monsoonal Rainfall over the Indian Region. , 0, , .		2