

# 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

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times ranked

3173  
citing authors

#	ARTICLE	IF	CITATIONS
1	$^{13}\text{C}$ - $^{18}\text{O}$ bonds in carbonate minerals: A new kind of paleothermometer. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1439-1456.	3.9	707
2	Rise of the Andes. <i>Science</i> , 2008, 320, 1304-1307.	12.6	574
3	Preferential formation of $^{13}\text{C}$ - $^{18}\text{O}$ bonds in carbonate minerals, estimated using first-principles lattice dynamics. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2510-2529.	3.9	395
4	Rapid Uplift of the Altiplano Revealed Through $^{13}\text{C}$ - $^{18}\text{O}$ Bonds in Paleosol Carbonates. <i>Science</i> , 2006, 311, 511-515.	12.6	338
5	Calibration of the carbonate $\delta^{13}\text{C}$ paleothermometer for otoliths. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2736-2744.	3.9	113
6	Stable isotope ratio mass spectrometry in global climate change research. <i>International Journal of Mass Spectrometry</i> , 2003, 228, 1-33.	1.5	108
7	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
8	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
9	Calcite- $\text{CO}_2$ mixed into $\text{CO}_2$ -free air: a new $\text{CO}_2$ -in-air stable isotope reference material for the VPDB scale. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 1097-1119.	1.5	63
10	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
11	$\text{CO}_2$ 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
12	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
13	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
14	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
15	The effect of $\text{N}_2\text{O}$ on the isotopic composition of air- $\text{CO}_2$ samples. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 1830-1838.	1.5	22
16	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
17	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
18	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

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19	Technical Note: Developments and Applications in Triple Oxygen Isotope Analysis of Carbonates. ACS Earth and Space Chemistry, 2020, 4, 702-710.	2.7	21
20	Role of water contamination within the GC column of a GasBench II peripheral on the reproducibility of $^{18}\text{O}/^{16}\text{O}$ ratios in water samples. Isotopes in Environmental and Health Studies, 2011, 47, 498-511.	1.0	19
21	Response to Comment on "Rapid Uplift of the Altiplano Revealed Through $^{13}\text{C}$ - $^{18}\text{O}$ Bonds in Paleosol Carbonates". Science, 2006, 314, 760c-760c.	12.6	18
22	Isotopic analysis of Permo-Carboniferous Talchir sediments from East-Central India: signature of glacial melt-water lakes. Chemical Geology, 2002, 188, 261-274.	3.3	17
23	Tracing the source of bottled water using stable isotope techniques. Rapid Communications in Mass Spectrometry, 2011, 25, 3323-3330.	1.5	17
24	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. Climate Dynamics, 2019, 52, 6893-6907.	3.8	17
25	Precision and long-term stability of clumped isotope analysis of $\text{CO}_2$ using a small-sector isotope ratio mass spectrometer. Rapid Communications in Mass Spectrometry, 2013, 27, 207-215.	1.5	15
26	Estimates of land and sea moisture contributions to the monsoonal rain over Kolkata, deduced based on isotopic analysis of rainwater. Earth System Dynamics, 2017, 8, 313-321.	7.1	15
27	Sustainable bio-energy potential of perennial energy grass from reclaimed coalmine spoil (marginal) Tj ETQq1 1 0.784314 rgBT/Overlo	8.9	15
28	Acid digestion of carbonates using break seal method for clumped isotope analysis. Rapid Communications in Mass Spectrometry, 2019, 33, 203-214.	1.5	15
29	Clumped isotope geochemistry of carbonatites in the north-western Deccan igneous province: Aspects of evolution, post-depositional alteration and mineralisation. Geochimica Et Cosmochimica Acta, 2020, 274, 118-135.	3.9	15
30	Diurnal variation of atmospheric $\text{CO}_2$ concentration and $\delta^{13}\text{C}$ in an urban atmosphere during winter—role of the Nocturnal Boundary Layer. Journal of Atmospheric Chemistry, 2010, 65, 1-12.	3.2	11
31	Tracking the migration of the Indian continent using the carbonate clumped isotope technique on Phanerozoic soil carbonates. Scientific Reports, 2016, 6, 22187.	3.3	11
32	Extreme Monsoon Rainfall Signatures Preserved in the Invasive Terrestrial Gastropod <i>Lissachatina fulica</i> . Geochemistry, Geophysics, Geosystems, 2017, 18, 3758-3770.	2.5	11
33	Isotopic homogenization and scrambling associated with oxygen isotopic exchange on hot platinum: studies on gas pairs ( $\text{O}_2$ , $\text{CO}_2$ ) and ( $\text{CO}$ , $\text{CO}_2$ ). RSC Advances, 2016, 6, 51296-51303.	3.6	10
34	Fingerprinting environmental conditions and related stress using stable isotopic composition of rice ( <i>Oryza sativa</i> L.) grain organic matter. Ecological Indicators, 2016, 61, 941-951.	6.3	9
35	Stable Oxygen and Carbon Isotopic Composition of Rice ( <i>Oryza sativa</i> L.) Grains as Recorder of Relative Humidity. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 423-439.	3.0	9
36	Relic surface water (clay-pore water) input triggers arsenic release into the shallow groundwater of Bengal aquifers. Journal of Earth System Science, 2022, 131, 1.	1.3	9

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37	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
38	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
39	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
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	Rainfall seasonality on the Indian subcontinent during the Cretaceous greenhouse. <i>Scientific Reports</i> , 2018, 8, 8482.	3.3	7
42	A stable isotope toolbox for water and inorganic carbon cycle studies. <i>Nature Reviews Earth &amp; Environment</i> , 2021, 2, 699-719.	29.7	7
43	Atmospheric CO <sub>2</sub> During the Late Paleozoic and Mesozoic: Estimates from Indian Soils. , 2005, , 8-34.		6
44	Stable isotopic signature of Southern Ocean deep water CO <sub>2</sub> ventilation. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 118, 177-185.	1.4	6
45	Diurnal and seasonal variation of mixing ratio and $\delta^{13}C$ of air CO <sub>2</sub> observed at an urban station Bangalore, India. <i>Environmental Science and Pollution Research</i> , 2015, 22, 1877-1890.	5.3	6
46	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
47	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
48	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
49	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
50	Rainwater Management and Harvesting Strategies for Human Needs: An Indian Perspective. <i>Environmental Science &amp; Technology</i> , 2011, 45, 9469-9470.	10.0	5
51	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
52	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
53	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
54	An experimental set-up for carbon isotopic analysis of atmospheric CO <sub>2</sub> and an example of ecosystem response during solar eclipse 2010. <i>Journal of Earth System Science</i> , 2013, 122, 623-638.	1.3	4

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55	Performance assessment of hybrid fibrous fillers on the tribological and thermo-mechanical behaviors of elastomer modified phenolic resin friction composite. SN Applied Sciences, 2020, 2, 1.	2.9	4
56	Estimation of seasonal base flow contribution to a tropical river using stable isotope analysis. Journal of Hydrology, 2021, 601, 126661.	5.4	4
57	Stable isotope on hilsa shad ( <i>Tenualosa ilisha</i> ) otoliths revealed migratory behavior of a population found in Hooghly River, West Bengal, India. Environmental Biology of Fishes, 2022, 105, 1909-1918.	1.0	4
58	Hydrographical characteristics and oxygen isotopic signatures of water in a coastal environment (Mangalore) along the southeastern Arabian Sea. Journal of Oceanography, 2014, 70, 251-266.	1.7	3
59	Influence of the upwelling events on the $\delta^{13}C$ and $\delta^{18}O$ of the benthic bivalve shells of the South Western Continental Margin of India. Environmental Earth Sciences, 2016, 75, 1.	2.7	3
60	Isotopic fractionation during acid digestion of calcite: A combined ab initio quantum chemical simulation and experimental study. Rapid Communications in Mass Spectrometry, 2020, 34, e8790.	1.5	3
61	Temperature estimates of lower Miocene (Burdigalian) coastal water of Southern India using a revised otolith $\delta^{18}O$ clumped isotope palaeothermometer. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009601.	2.5	3
62	High permian CO <sub>2</sub> level: Evidence from Satpura Palaeosol, Central India. Science Bulletin, 1998, 43, 11-11.	1.7	2
63	Strong sea forcing and warmer winter during solar minima $\sim 142765$ A.D.P. recorded in the growth bands of <i>Crassostrea</i> sp. from the confluence of river Ganges, Eastern India. Quaternary International, 2018, 479, 48-57.	1.5	2
64	Moisture rainout fraction over the Indian Ocean during austral summer based on $\delta^{18}O / \delta^{16}O$ ratios of surface seawater, rainwater at latitude range of $10^{\circ}N$ to $60^{\circ}S$ . Journal of Earth System Science, 2018, 127, 1.	1.3	2
65	Floating boat method for carbonate stable isotopic ratio determination in a GasBench II peripheral. Rapid Communications in Mass Spectrometry, 2021, 35, e9115.	1.5	2
66	Cenozoic Climatic Record for Monsoonal Rainfall over the Indian Region. , 0, , .		2
67	Fractionation of stable oxygen and clumped isotopes during acid digestion of calcite in the presence of an external direct current electric field. Rapid Communications in Mass Spectrometry, 2020, 34, e8921.	1.5	1
68	A multi-proxy ( $\delta^{44}Ca/40Ca$ , Sr/Ca, and $\delta^{87}Sr/86Sr$ ) study of fish otoliths for determination of seawater temperature. Chemical Geology, 2022, , 120950.	3.3	1
69	Chapter 8 Isotopic Tracers in Climatology. Radioactivity in the Environment, 2009, , 323-361.	0.2	0
70	Ab initio quantum chemical studies of isotopic fractionation during acid digestion reaction of dolomite for clumped isotope application. Rapid Communications in Mass Spectrometry, 2020, 34, e8926.	1.5	0
71	Seasonal freshwater flux estimation using mollusc from the tropical Mandovi Zuari estuary, Goa, India. Journal of Earth System Science, 2021, 130, 1.	1.3	0