

Sujoy Mukhopadhyay

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,559
citations

236925

25
h-index

276875

41
g-index

41
all docs

41
docs citations

41
times ranked

2641
citing authors

#	ARTICLE	IF	CITATIONS
1	Isotopic Compositions of Cometary Matter Returned by Stardust. <i>Science</i> , 2006, 314, 1724-1728.	12.6	343
2	Interstellar Chemistry Recorded in Organic Matter from Primitive Meteorites. <i>Science</i> , 2006, 312, 727-730.	12.6	315
3	Early differentiation and volatile accretion recorded in deep-mantle neon and xenon. <i>Nature</i> , 2012, 486, 101-104.	27.8	314
4	Preservation of Earth-forming events in the tungsten isotopic composition of modern flood basalts. <i>Science</i> , 2016, 352, 809-812.	12.6	130
5	Evidence for multiple magma ocean outgassing and atmospheric loss episodes from mantle noble gases. <i>Earth and Planetary Science Letters</i> , 2014, 393, 254-265.	4.4	116
6	Preserving noble gases in a convecting mantle. <i>Nature</i> , 2009, 459, 560-563.	27.8	96
7	A Short Duration of the Cretaceous-Tertiary Boundary Event: Evidence from Extraterrestrial Helium-3. <i>Science</i> , 2001, 291, 1952-1955.	12.6	95
8	Non-equilibrium degassing and a primordial source for helium in ocean-island volcanism. <i>Nature</i> , 2007, 449, 1037-1040.	27.8	87
9	How Did Early Earth Become Our Modern World?. <i>Annual Review of Earth and Planetary Sciences</i> , 2014, 42, 151-178.	11.0	82
10	Capture of nebular gases during Earth's accretion is preserved in deep-mantle neon. <i>Nature</i> , 2019, 565, 78-81.	27.8	71
11	New constraints on the HIMU mantle from neon and helium isotopic compositions of basalts from the Cook's Austral Islands. <i>Earth and Planetary Science Letters</i> , 2009, 277, 253-261.	4.4	68
12	Heterogeneities from the first 100 million years recorded in deep mantle noble gases from the Northern Lau Back-arc Basin. <i>Earth and Planetary Science Letters</i> , 2013, 369-370, 13-23.	4.4	60
13	Noble Gases: A Record of Earth's Evolution and Mantle Dynamics. <i>Annual Review of Earth and Planetary Sciences</i> , 2019, 47, 389-419.	11.0	56
14	Isotopic Signatures of Presolar Materials in Interplanetary Dust. <i>Space Science Reviews</i> , 2003, 106, 155-172.	8.1	51
15	A 35 Myr record of helium in pelagic limestones from Italy: implications for interplanetary dust accretion from the early Maastrichtian to the middle Eocene. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 653-669.	3.9	50
16	Cosmogenic and nucleogenic ^3He in apatite, titanite, and zircon. <i>Earth and Planetary Science Letters</i> , 2006, 248, 451-461.	4.4	50
17	Spatial variability of erosion rates inferred from the frequency distribution of cosmogenic ^3He in olivines from Hawaiian river sediments. <i>Earth and Planetary Science Letters</i> , 2008, 266, 303-315.	4.4	50
18	Absence of extraterrestrial ^3He in Permian-Triassic age sedimentary rocks. <i>Earth and Planetary Science Letters</i> , 2005, 240, 265-275.	4.4	47

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19	The evolution of MORB and plume mantle volatile budgets: Constraints from fission Xe isotopes in Southwest Indian Ridge basalts. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 719-735.	2.5	47
20	Xenon isotopic constraints on the history of volatile recycling into the mantle. <i>Nature</i> , 2018, 560, 223-227.	27.8	47
21	Hydrothermal iron flux variability following rapid sea level changes. <i>Geophysical Research Letters</i> , 2016, 43, 3848-3856.	4.0	45
22	Reconstructing mantle carbon and noble gas contents from degassed mid-ocean ridge basalts. <i>Earth and Planetary Science Letters</i> , 2018, 496, 108-119.	4.4	40
23	Primitive Helium Is Sourced From Seismically Slow Regions in the Lowermost Mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4130-4145.	2.5	34
24	West Antarctic Ice Sheet elevations in the Ohio Range: Geologic constraints and ice sheet modeling prior to the last highstand. <i>Earth and Planetary Science Letters</i> , 2011, 307, 83-93.	4.4	27
25	¹⁴⁷ Sm- ¹⁴³ Nd systematics of Earth are inconsistent with a superchondritic Sm/Nd ratio. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4929-4934.	7.1	27
26	Millennial-scale variations in dustiness recorded in Mid-Atlantic sediments from 0 to 70 ka. <i>Earth and Planetary Science Letters</i> , 2018, 482, 12-22.	4.4	26
27	New insights into the carrier phase(s) of extraterrestrial ³ He in geologically old sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 5061-5073.	3.9	25
28	Subterranean production of neutrons, ³⁹ Ar and ²¹ Ne: Rates and uncertainties. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 196, 370-387.	3.9	25
29	Hydrothermal deposition on the Juan de Fuca Ridge over multiple glacial-interglacial cycles. <i>Earth and Planetary Science Letters</i> , 2017, 479, 120-132.	4.4	24
30	A study of the trace ³⁹ Ar content in argon from deep underground sources. <i>Astroparticle Physics</i> , 2015, 66, 53-60.	4.3	22
31	Controls on interior West Antarctic Ice Sheet Elevations: inferences from geologic constraints and ice sheet modeling. <i>Quaternary Science Reviews</i> , 2013, 65, 26-38.	3.0	21
32	Deep-mantle krypton reveals Earth's early accretion of carbonaceous matter. <i>Nature</i> , 2021, 600, 462-467.	27.8	19
33	Helium and thorium isotope constraints on African dust transport to the Bahamas over recent millennia. <i>Earth and Planetary Science Letters</i> , 2017, 457, 385-394.	4.4	10
34	Heavy noble gas signatures of the North Atlantic Popping Rock 21D43: Implications for mantle noble gas heterogeneity. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 294, 89-105.	3.9	10
35	Krypton in the Chassigny meteorite shows Mars accreted chondritic volatiles before nebular gases. <i>Science</i> , 2022, 377, 320-324.	12.6	10
36	The spatial footprint of hydrothermal scavenging on ²³⁰ ThXS-derived mass accumulation rates. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 272, 218-234.	3.9	7

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37	A new dual stainless steel cryogenic trap for efficient separation of krypton from argon and xenon. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2663-2671.	3.0	4
38	Incompatibility of argon during magma ocean crystallization. <i>Earth and Planetary Science Letters</i> , 2021, 553, 116598.	4.4	4
39	A first-principles and experimental study of helium diffusion in periclase MgO. <i>Physics and Chemistry of Minerals</i> , 2018, 45, 641-654.	0.8	2
40	Pre-subduction mantle noble gas elemental pattern reveals larger missing xenon in the deep interior compared to the atmosphere. <i>Earth and Planetary Science Letters</i> , 2022, 593, 117655.	4.4	1