

Neil Banerjee

List of Publications by Year in descending order

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80
papers

3,290
citations

172443

29
h-index

149686

56
g-index

82
all docs

82
docs citations

82
times ranked

3092
citing authors

#	ARTICLE	IF	CITATIONS
1	Early Life Recorded in Archean Pillow Lavas. <i>Science</i> , 2004, 304, 578-581.	12.6	342
2	Drilling to Gabbro in Intact Ocean Crust. <i>Science</i> , 2006, 312, 1016-1020.	12.6	230
3	Impact-generated hydrothermal systems on Earth and Mars. <i>Icarus</i> , 2013, 224, 347-363.	2.5	219
4	3.5-billion years of glass bioalteration: Volcanic rocks as a basis for microbial life?. <i>Earth-Science Reviews</i> , 2008, 89, 156-176.	9.1	171
5	Subsurface structure of a submarine hydrothermal system in ocean crust formed at the East Pacific Rise, ODP/IODP Site 1256. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	150
6	In situ petrographic thin section U-Pb dating of zircon, monazite, and titanite using laser ablation-MC-ICP-MS. <i>International Journal of Mass Spectrometry</i> , 2006, 253, 87-97.	1.5	147
7	Preservation of $^{143}\text{Sm}/^{147}\text{Sm}$ 3.5 Ga microbial biomarkers in pillow lavas and hyaloclastites from the Barberton Greenstone Belt, South Africa. <i>Earth and Planetary Science Letters</i> , 2006, 241, 707-722.	4.4	118
8	Discovery of ancient and active hydrothermal systems along the ultra-slow spreading Southwest Indian Ridge 10°-16°E. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, 1-14.	2.5	110
9	Comparing petrographic signatures of bioalteration in recent to Mesoproterozoic pillow lavas: Tracing subsurface life in oceanic igneous rocks. <i>Precambrian Research</i> , 2007, 158, 156-176.	2.7	103
10	Alteration of submarine basaltic glass from the Ontong Java Plateau: A STXM and TEM study. <i>Earth and Planetary Science Letters</i> , 2007, 260, 187-200.	4.4	97
11	Hydrothermal venting in magma deserts: The ultraslow-spreading Gakkel and Southwest Indian Ridges. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, .	2.5	93
12	Direct dating of Archean microbial ichnofossils. <i>Geology</i> , 2007, 35, 487.	4.4	87
13	Tuff life: Bioalteration in volcanoclastic rocks from the Ontong Java Plateau. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	82
14	Ichnotaxonomy of microbial trace fossils in volcanic glass. <i>Journal of the Geological Society</i> , 2009, 166, 159-169.	2.1	74
15	The preservation and degradation of filamentous bacteria and biomolecules within iron oxide deposits at Rio Tinto, Spain. <i>Geobiology</i> , 2011, 9, 233-249.	2.4	64
16	Composition of hydrothermal fluids and mineralogy of associated chimney material on the East Scotia Ridge back-arc spreading centre. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 139, 47-71.	3.9	61
17	Microbes and volcanoes: A tale from the oceans, ophiolites, and greenstone belts. <i>GSA Today</i> , 2006, 16, 4.	2.0	58
18	Downhole variation of lithium and oxygen isotopic compositions of oceanic crust at East Pacific Rise, ODP Site 1256. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	55

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19	Tapping the Subsurface Ocean Crust Biosphere: Low Biomass and Drilling-Related Contamination Calls for Improved Quality Controls. <i>Geomicrobiology Journal</i> , 2010, 27, 158-169.	2.0	54
20	Clay assemblage and oxygen isotopic constraints on the weathering response to the Paleocene-Eocene thermal maximum, east coast of North America. <i>Geology</i> , 2012, 40, 591-594.	4.4	53
21	Micro-X-ray diffraction assessment of shock stage in enstatite chondrites. <i>Meteoritics and Planetary Science</i> , 2011, 46, 638-651.	1.6	51
22	Evidence for methane in Martian meteorites. <i>Nature Communications</i> , 2015, 6, 7399.	12.8	47
23	Discovery of epidiosites in a modern oceanic setting, the Tonga forearc. <i>Geology</i> , 2000, 28, 151.	4.4	45
24	Infrared Spectroscopic Characterization of Organic Matter Associated with Microbial Bioalteration Textures in Basaltic Glass. <i>Astrobiology</i> , 2011, 11, 585-599.	3.0	43
25	Preservation of biosignatures in metaglassy volcanic rocks from the Jormua ophiolite complex, Finland. <i>Precambrian Research</i> , 2005, 136, 125-137.	2.7	42
26	Boron and chlorine contents of upper oceanic crust: Basement samples from IODP Hole 1256D. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	40
27	The microbe-mineral environment and gypsum neogenesis in a weathered polar evaporite. <i>Geobiology</i> , 2010, 8, 293-308.	2.4	36
28	Basaltic glass as a habitat for microbial life: Implications for astrobiology and planetary exploration. <i>Planetary and Space Science</i> , 2010, 58, 583-591.	1.7	34
29	Molecular preservation in halite- and perchlorate-rich hypersaline subsurface deposits in the Salar Grande basin (Atacama Desert, Chile): Implications for the search for molecular biomarkers on Mars. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 922-939.	3.0	30
30	Mineralogy of saline perennial cold springs on Axel Heiberg Island, Nunavut, Canada and implications for spring deposits on Mars. <i>Icarus</i> , 2013, 224, 364-381.	2.5	30
31	New triple oxygen isotope data of bulk and separated fractions from <sc>SNC</sc> meteorites: Evidence for mantle homogeneity of Mars. <i>Meteoritics and Planetary Science</i> , 2016, 51, 981-995.	1.6	30
32	Enigmatic tubular features in impact glass. <i>Geology</i> , 2014, 42, 471-474.	4.4	27
33	Structural and Chemical Characterization of Placer Gold Grains: Implications for Bacterial Contributions to Grain Formation. <i>Geomicrobiology Journal</i> , 2015, 32, 158-169.	2.0	25
34	Timescales of storage and recycling of crystal mush at Krafla Volcano, Iceland. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1.	3.1	24
35	Carbonate precipitation under bulk acidic conditions as a potential biosignature for searching life on Mars. <i>Earth and Planetary Science Letters</i> , 2012, 351-352, 13-26.	4.4	23
36	Hydrothermal alteration patterns in supra-subduction zone ophiolites. , 2000, , .		23

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37	Biogeochemical Cycling of Silver in Acidic, Weathering Environments. Minerals (Basel, Switzerland), 2017, 7, 218.	2.0	22
38	Hydrothermal alteration in a modern suprasubduction zone: The Tonga forearc crust. Journal of Geophysical Research, 2001, 106, 21737-21750.	3.3	21
39	Origin of the sheeted dike complex at superfast spread East Pacific Rise revealed by deep ocean crust drilling at Ocean Drilling Program Hole 1256D. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	19
40	A Fuzzy Decision Tree for Processing Satellite Images and Landsat Data. Procedia Computer Science, 2015, 52, 1192-1197.	2.0	18
41	Tectonic control of bioalteration in modern and ancient oceanic crust as evidenced by carbon isotopes. Island Arc, 2006, 15, 143-155.	1.1	16
42	Characterization of the acidic cold seep emplaced jarositic Golden Deposit, NWT, Canada, as an analogue for jarosite deposition on Mars. Icarus, 2013, 224, 382-398.	2.5	16
43	Low-temperature alteration of submarine basalts from the Ontong Java Plateau. Geological Society Special Publication, 2004, 229, 259-273.	1.3	15
44	Nitrogen Concentrations and Isotopic Compositions of Seafloor-Altered Terrestrial Basaltic Glass: Implications for Astrobiology. Astrobiology, 2018, 18, 330-342.	3.0	15
45	Applications of synchrotron X-ray techniques to orogenic gold studies; examples from the Timmins gold camp. Ore Geology Reviews, 2019, 104, 589-602.	2.7	14
46	Lidar and the mobile Scene Modeler (mSM) as scientific tools for planetary exploration. Planetary and Space Science, 2010, 58, 691-700.	1.7	12
47	Weathering of Post-Impact Hydrothermal Deposits from the Haughton Impact Structure: Implications for Microbial Colonization and Biosignature Preservation. Astrobiology, 2011, 11, 537-550.	3.0	12
48	Fingerprinting multiple gold mineralization events at the Dome mine in Timmins, Ontario, Canada: Trace element and gold content of pyrite. Ore Geology Reviews, 2019, 104, 603-619.	2.7	12
49	Geochemical biosignatures preserved in microbially altered basaltic glass. Surface and Interface Analysis, 2011, 43, 452-457.	1.8	11
50	Potential for impact glass to preserve microbial metabolism. Earth and Planetary Science Letters, 2015, 430, 95-104.	4.4	11
51	Evidence for a spatially extensive hydrothermal system at the Ries impact structure, Germany. Meteoritics and Planetary Science, 2017, 52, 351-371.	1.6	11
52	A mineralogical archive of the biogeochemical sulfur cycle preserved in the subsurface of the R�o Tinto system. American Mineralogist, 2018, 103, 394-411.	1.9	10
53	Geochemistry and C and O isotope composition of carbonate rocks from Bemil and Lagoa Seca quarries, Gandarela Formation, Quadril�tero Ferr�fero - Brazil. Journal of South American Earth Sciences, 2019, 92, 609-630.	1.4	10
54	A volcanic habitat for early life preserved in the Abitibi Greenstone belt, Canada. Precambrian Research, 2010, 179, 88-98.	2.7	9

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55	Revisiting the Rochechouart impact structure, France. <i>Meteoritics and Planetary Science</i> , 2014, 49, 2152-2168.	1.6	9
56	Early carbonate veining and gold mineralization in the Timmins camp: Depositional context of the Dome mine ankerite veins. <i>Ore Geology Reviews</i> , 2018, 97, 55-73.	2.7	9
57	QUE 94204: A primitive enstatite achondrite produced by the partial melting of an E chondrite-like protolith. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1742-1753.	1.6	8
58	Peakaboo: Advanced software for the interpretation of X-ray fluorescence spectra from synchrotrons and other intense X-ray sources. <i>Software Impacts</i> , 2019, 2, 100010.	1.4	8
59	PRESERVATION OF MICROBIAL ICHNOFOSSILS IN BASALTIC GLASS BY TITANITE MINERALIZATION. <i>Canadian Mineralogist</i> , 2010, 48, 1255-1265.	1.0	7
60	Evidence for life in the isotopic analysis of surface sulphates in the Haughton impact structure, and potential application on Mars. <i>International Journal of Astrobiology</i> , 2012, 11, 93-101.	1.6	6
61	Chemical and oxygen isotopic properties of ordinary chondrites (H5, L6) from Oman: Signs of isotopic equilibrium during thermal metamorphism. <i>Meteoritics and Planetary Science</i> , 2017, 52, 2097-2112.	1.6	6
62	The oxygen isotope compositions of olivine in main group (<sc>MG</sc>) pallasites: New measurements by adopting an improved laser fluorination approach. <i>Meteoritics and Planetary Science</i> , 2018, 53, 1223-1237.	1.6	6
63	Reconstruction and evolution of Archean intracaldera facies: the Rouyn-Pelletier Caldera Complex of the Blake River Group, Abitibi greenstone belt, Canada. <i>Canadian Journal of Earth Sciences</i> , 2016, 53, 355-377.	1.3	5
64	Oxygen Isotope Thermometry of DaG 476 and SaU 008 Martian Meteorites: Implications for Their Origin. <i>Geosciences (Switzerland)</i> , 2018, 8, 15.	2.2	5
65	Application of Synchrotron Spectroscopy to Understanding Gold Mineralization at the Monument Bay Project, Stull Lake Greenstone Belt, Manitoba, Canada. <i>Microscopy and Microanalysis</i> , 2019, 25, 802-803.	0.4	5
66	Petrography and geochemistry of lunar meteorites Dhofar 1673, 1983, and 1984. <i>Meteoritics and Planetary Science</i> , 2019, 54, 300-320.	1.6	5
67	Formation of iron-rich shelled structures by microbial communities. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 147-168.	3.0	4
68	Elemental and stable isotopes geochemistry of Paleoproterozoic dolomites from Fecho do Funil Formation, Quadril�terro Ferr�fero - Brazil. <i>Journal of South American Earth Sciences</i> , 2017, 79, 525-536.	1.4	4
69	Rapid, quantitative, and non-destructive SR-WD-XRF mapping of trace platinum in Byzantine Roman Empire gold coins. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1763-1769.	3.0	4
70	Chemical alteration and preservation of sedimentary/organic nitrogen isotope signatures in a 2.7 Ga seafloor volcanic sequence. <i>International Journal of Astrobiology</i> , 2019, 18, 235-250.	1.6	4
71	Pillow lavas as a habitat for microbial life. <i>Geology Today</i> , 2007, 23, 143-146.	0.9	3
72	A temperature-controlled sample stage for in situ micro-X-ray diffraction: Application to Mars analog mirabilite-bearing perennial cold spring precipitate mineralogy. <i>American Mineralogist</i> , 2014, 99, 943-947.	1.9	3

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73	Geochemical and oxygen isotope perspective of a new R chondrite Dhofar 1671: Affinity with ordinary chondrites. <i>Meteoritics and Planetary Science</i> , 2017, 52, 1991-2003.	1.6	3
74	Discovery of epidiosites in a modern oceanic setting, the Tonga forearc. <i>Geology</i> , 2000, 28, 151-154.	4.4	3
75	IODP Expeditions 309 and 312 Drill an Intact Section of Upper Oceanic Basement into Gabbros. <i>Scientific Drilling</i> , 2007, , .	0.6	3
76	Combining Terapixel-Scale SEM Imaging and High-Resolution TEM Studies for Mineral Exploration.. <i>Microscopy and Microanalysis</i> , 2014, 20, 1008-1009.	0.4	2
77	Coupled Si and O isotope measurements of meteoritic material by laser fluorination isotope ratio mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2019, 54, 667-675.	1.6	2
78	Enigmatic tubular features in impact glass: REPLY. <i>Geology</i> , 2014, 42, e348-e348.	4.4	1
79	Organic Matter Preservation and Incipient Mineralization of Microtubules in 120 Ma Basaltic Glass. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	1
80	Artificial intelligence and data analytics for geosciences and remote sensing. , 2021, , 1055-1082.		1