

# Nilanjan Chatterjee

## List of Publications by Year in descending order

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55  
papers

3,154  
citations

186265

28  
h-index

189892

50  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2503  
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of the primitive, strongly SiO <sub>2</sub> -undersaturated alkalic rocks from the Deccan Traps by low-degree mantle melting and high-pressure fractional crystallization. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	7
2	Late Cretaceous alkaline magmas of the Eastern Pontides Orogenic Belt (NE Turkey): A review with new geological, geochemical and geochronological data. <i>Gondwana Research</i> , 2021, 97, 204-239.	6.0	7
3	Xenoliths in Late Cretaceous to Early Paleocene adakites of the Eastern Pontides Orogenic Belt, NE Turkey. <i>Lithos</i> , 2021, 398-399, 106265.	1.4	2
4	Paleomagnetic evidence for a disk substructure in the early solar system. <i>Science Advances</i> , 2021, 7, eabj6928.	10.3	19
5	Late Cretaceous I- and A-type magmas in eastern Turkey: Magmatic response to double-sided subduction of Paleo- and Neo-Tethyan lithospheres. <i>Lithos</i> , 2019, 326-327, 39-70.	1.4	25
6	Discovery of Latest Cretaceous OIB-type alkaline gabbros in the Eastern Pontides Orogenic Belt, NE Turkey: Evidence for tectonic emplacement of seamounts. <i>Lithos</i> , 2018, 310-311, 182-200.	1.4	11
7	The final pulse of the Early Cenozoic adakitic activity in the Eastern Pontides Orogenic Belt (NE) Tj ETQq1 1 0.784314 rgBT /Overlock 10 slab window setting. <i>Journal of Asian Earth Sciences</i> , 2018, 157, 141-165.	2.3	12
8	An assembly of the Indian Shield at c. 1.0 Ga and shearing at c. 876–784 Ma in Eastern India: Insights from contrasting P-T paths, and burial and exhumation rates of metapelitic granulites. <i>Precambrian Research</i> , 2018, 317, 117-136.	2.7	21
9	Petrology, Geochronology and Tectonic Setting of Early Triassic Alkaline Metagabbros From the Eastern Pontide Orogenic Belt (NE Turkey): Implications for the Geodynamic Evolution of Gondwana's Early Mesozoic Northern Margin. <i>Tectonics</i> , 2018, 37, 3174-3206.	2.8	10
10	Subaqueous early eruptive phase of the late Aptian Rajmahal volcanism, India: Evidence from volcanoclastic rocks, bentonite, black shales, and oolite. <i>Geoscience Frontiers</i> , 2017, 8, 809-822.	8.4	28
11	Eocene granitoids of northern Turkey: Polybaric magmatism in an evolving arc slab window system. <i>Gondwana Research</i> , 2017, 50, 311-345.	6.0	55
12	Constraints from monazite and xenotime growth modelling in the Mn-CKFMASH-PYC system on the P-T path of a metapelite from Shillong Meghalaya Plateau: implications for the Indian shield assembly. <i>Journal of Metamorphic Geology</i> , 2017, 35, 393-412.	3.4	18
13	Rapid time scale of Earth's youngest known ultrahigh-pressure metamorphic event, Papua New Guinea. <i>Geology</i> , 2017, 45, 795-798.	4.4	8
14	Restoration of Late Neoproterozoic Early Cambrian tectonics in the Rengali orogen and its environs (eastern India): The Antarctic connection. <i>Lithos</i> , 2016, 263, 190-212.	1.4	36
15	Prolonged Ediacaran Cambrian Metamorphic History and Short-lived High-pressure Granulite-facies Metamorphism in the H.U. Sverdrupfjella, Dronning Maud Land (East Antarctica): Evidence for Continental Collision during Gondwana Assembly. <i>Journal of Petrology</i> , 2016, 57, 185-228.	2.8	40
16	Where are the remnants of a Jurassic ocean in the eastern Mediterranean region?. <i>Gondwana Research</i> , 2016, 33, 63-91.	6.0	38
17	Cenozoic forearc gabbros from the northern zone of the Eastern Pontides Orogenic Belt, NE Turkey: Implications for slab window magmatism and convergent margin tectonics. <i>Gondwana Research</i> , 2016, 33, 160-189.	6.0	43
18	Exhumation of the UHP Tso Moriri eclogite as a diapir rising through the mantle wedge. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	35

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19	Origin of the Powai ankaramite, and the composition, P-T conditions of equilibration and evolution of the primary magmas of the Deccan tholeiites. Contributions To Mineralogy and Petrology, 2015, 169, 1.	3.1	14
20	Tectonic restoration of the Precambrian crystalline rocks along the west coast of India: Correlation with eastern Madagascar in East Gondwana. Precambrian Research, 2014, 252, 191-208.	2.7	31
21	A Petrographic Atlas of Ophiolite. , 2014, , .		22
22	Geology of the Naga Hills Ophiolite. , 2014, , 25-48.		6
23	Petrogenesis. , 2014, , 79-83.		0
24	Petrography. , 2014, , 57-78.		0
25	An intercontinental correlation of the mid-Neoproterozoic Eastern Indian tectonic zone: evidence from the gneissic clasts in Elan Bank conglomerate, Kerguelen Plateau. Contributions To Mineralogy and Petrology, 2012, 163, 789-806.	3.1	18
26	Extensive Early Neoproterozoic high-grade metamorphism in North Chotanagpur Gneissic Complex of the Central Indian Tectonic Zone. Gondwana Research, 2011, 20, 362-379.	6.0	111
27	Late Cambrian Reworking of Paleo-Mesoproterozoic Granulites in Shillong-Meghalaya Gneissic Complex (Northeast India): Evidence from $P-T$ Pseudosection Analysis and Monazite Chronology and Implications for East Gondwana Assembly. Journal of Geology, 2011, 119, 311-330.	1.4	38
28	Geological and Geochemical Studies of Kolekole Cinder Cone, Southwest Rift Zone, East Maui, Hawaii. , 2011, , 95-113.		0
29	Diorite Vein in Quenched Basalt and Its Implication for the Origin of Late-Granitoid Intrusives in Naga Hills Ophiolite, Northeast India. , 2011, , 315-330.		3
30	Grove et al. reply. Nature, 2010, 468, E7-E8.	27.8	8
31	Geological and mineralogical study of eclogite and glaucophane schists in the Naga Hills Ophiolite, Northeast India. Island Arc, 2010, 19, 336-356.	1.1	47
32	Monazite chronology, metamorphism-anatexis and tectonic relevance of the mid-Neoproterozoic Eastern Indian Tectonic Zone. Precambrian Research, 2010, 179, 99-120.	2.7	101
33	Metamorphic evolution of the Naga Hills eclogite and blueschist, Northeast India: implications for early subduction of the Indian plate under the Burma microplate. Journal of Metamorphic Geology, 2010, 28, 209-225.	3.4	67
34	Kinematic variables and water transport control the formation and location of arc volcanoes. Nature, 2009, 459, 694-697.	27.8	174
35	Improved confidence in $(U-Th)/He$ thermochronology using the laser microprobe: An example from a Pleistocene leucogranite, Nanga Parbat, Pakistan. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	22
36	Geochronology of the 1.55Ga Bengal anorthosite and Grenvillian metamorphism in the Chotanagpur gneissic complex, eastern India. Precambrian Research, 2008, 161, 303-316.	2.7	124

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37	Geochronology of the 983 Ma Chilka Lake Anorthosite, Eastern Ghats Belt, India: Implications for Pre-Gondwana Tectonics. <i>Journal of Geology</i> , 2008, 116, 105-118.	1.4	54
38	Mesoproterozoic granulites of the Shillong Meghalaya Plateau: Evidence of westward continuation of the Prydz Bay Pan-African suture into Northeastern India. <i>Precambrian Research</i> , 2007, 152, 1-26.	2.7	117
39	The influence of H <sub>2</sub> O on mantle wedge melting. <i>Earth and Planetary Science Letters</i> , 2006, 249, 74-89.	4.4	406
40	Depth of alkalic magma reservoirs below Kolekole cinder cone, Southwest rift zone, East Maui, Hawaii. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 145, 1-22.	2.1	12
41	Magnesian andesite and dacite lavas from Mt. Shasta, northern California: products of fractional crystallization of H <sub>2</sub> O-rich mantle melts. <i>Contributions To Mineralogy and Petrology</i> , 2005, 148, 542-565.	3.1	177
42	Silica and volatile-element metasomatism of Archean mantle: a xenolith-scale example from the Kaapvaal Craton. <i>Contributions To Mineralogy and Petrology</i> , 2005, 150, 251-267.	3.1	114
43	Crystallization history of a massif anorthosite in the eastern Indian shield margin based on borehole lithology. <i>Journal of Asian Earth Sciences</i> , 2005, 25, 77-94.	2.3	8
44	A preliminary geochemical study of zircons and monazites from Deccan felsic dikes, Rajula, Gujarat, India: Implications for crustal melting. <i>Journal of Earth System Science</i> , 2004, 113, 533-542.	1.3	8
45	Two- and three-dimensional gravity modeling along western continental margin and intraplate Narmada-Tapti rifts: Its relevance to Deccan flood basalt volcanism. <i>Journal of Earth System Science</i> , 2004, 113, 771-784.	1.3	36
46	Fractional crystallization and mantle-melting controls on calc-alkaline differentiation trends. <i>Contributions To Mineralogy and Petrology</i> , 2003, 145, 515-533.	3.1	623
47	Magmatic processes that produced lunar fire fountains. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	4.0	30
48	Experimental and petrological constraints on lunar differentiation from the Apollo 15 green picritic glasses. <i>Meteoritics and Planetary Science</i> , 2003, 38, 515-527.	1.6	76
49	Origin of the Felsic and Basaltic Dikes and Flows in the Rajula-Palitana-Sihor Area of the Deccan Traps, Saurashtra, India: A Geochemical and Geochronological Study. <i>International Geology Review</i> , 2001, 43, 1094-1116.	2.1	44
50	Petrology, geochemistry and tectonic settings of the mafic dikes and sills associated with the evolution of the Proterozoic Cuddapah Basin of south India. <i>Journal of Earth System Science</i> , 2001, 110, 433-453.	1.3	49
51	The Spatial Distribution of Garnets and Pyroxenes in Mantle Peridotites: Pressure-Temperature History of Peridotites from the Kaapvaal Craton. <i>Journal of Petrology</i> , 2001, 42, 2215-2229.	2.8	53
52	Formation of Proterozoic tholeiite intrusives in and around Cuddapah Basin, South India and their Gondwana counterparts in East Antarctica; and compositional variation in their mantle sources. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 1998, 174, 79-102.	0.3	10
53	Indian Intraplate and Continental Margin Rifting, Lithospheric Extension, and Mantle Upwelling in Deccan Flood Basalt Volcanism near the K/T Boundary: Evidence from Mafic Dike Swarms. <i>Journal of Geology</i> , 1996, 104, 379-398.	1.4	91
54	Evaluation of thermochemical data on Fe-Mg olivine, orthopyroxene, spinel and Ca-Fe-Mg-Al garnet. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 2515-2525.	3.9	20

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55	Thermochemical Data on Mineral Phases: The System CaO-MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> . Journal of Petrology, 1986, 27, 827-842.	2.8	24