Nilanjan Chatterjee

List of Publications by Year
in descending order

55	3,154	186265 28	189892 50
papers	citations	h-index	g-index

56	56	56	2503
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fractional crystallization and mantle-melting controls on calc-alkaline differentiation trends. Contributions To Mineralogy and Petrology, 2003, 145, 515-533.	3.1	623
2	The influence of H2O on mantle wedge melting. Earth and Planetary Science Letters, 2006, 249, 74-89.	4.4	406
3	Magnesian andesite and dacite lavas from Mt. Shasta, northern California: products of fractional crystallization of H2O-rich mantle melts. Contributions To Mineralogy and Petrology, 2005, 148, 542-565.	3.1	177
4	Kinematic variables and water transport control the formation and location of arc volcanoes. Nature, 2009, 459, 694-697.	27.8	174
5	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
6	Mesoproterozoic granulites of the Shillongâ€“Meghalaya Plateau: Evidence of westward continuation of the Prydz Bay Pan-African suture into Northeastern India. Precambrian Research, 2007, 152, 1-26.	2.7	117
7	Silica and volatile-element metasomatism of Archean mantle: a xenolith-scale example from the Kaapvaal Craton. Contributions To Mineralogy and Petrology, 2005, 150, 251-267.	3.1	114
8	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
9	Monazite chronology, metamorphismâ€“anatexis and tectonic relevance of the mid-Neoproterozoic Eastern Indian Tectonic Zone. Precambrian Research, 2010, 179, 99-120.	2.7	101
10	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. Journal of Geology, 1996, 104, 379-398.	1.4	91
11	Experimental and petrological constraints on lunar differentiation from the Apollo 15 green picritic glasses. Meteoritics and Planetary Science, 2003, 38, 515-527.	1.6	76
12	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
13	Eocene granitoids of northern Turkey: Polybaric magmatism in an evolving arcâ€“slab window system. Gondwana Research, 2017, 50, 311-345.	6.0	55
14	Geochronology of the 983â€Ma Chilka Lake Anorthosite, Eastern Ghats Belt, India: Implications for Preâ€Gondwana Tectonics. Journal of Geology, 2008, 116, 105-118.	1.4	54
15	The Spatial Distribution of Garnets and Pyroxenes in Mantle Peridotites: Pressure-Temperature History of Peridotites from the Kaapvaal Craton. Journal of Petrology, 2001, 42, 2215-2229.	2.8	53
16	Petrology, geochemistry and tectonic settings of the mafic dikes and sills associated with the evolution of the Proterozoic Cuddapah Basin of south India. Journal of Earth System Science, 2001, 110, 433-453.	1.3	49
17	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
18	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. International Geology Review, 2001, 43, 1094-1116.	2.1	44

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19	Cenozoic forearc gabbros from the northern zone of the Eastern Pontides Orogenic Belt, NE Turkey: Implications for slab window magmatism and convergent margin tectonics. Gondwana Research, 2016, 33, 160-189.	6.0	43
20	Prolonged Ediacaranâ€“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. Journal of Petrology, 2016, 57, 185-228.	2.8	40
21	Late Cambrian Reworking of Paleo-Mesoproterozoic Granulites in Shillong-Meghalaya Gneissic Complex (Northeast India): Evidence from PT Pseudosection Analysis and Monazite Chronology and Implications for East Gondwana Assembly. Journal of Geology, 2011, 119, 311-330.	1.4	38
22	Where are the remnants of a Jurassic ocean in the eastern Mediterranean region?. Gondwana Research, 2016, 33, 63-91.	6.0	38
23	Two- and three-dimensional gravity modeling along western continental margin and intraplate Narmada-Tapti rifts: Its relevance to Deccan flood basalt volcanism. Journal of Earth System Science, 2004, 113, 771-784.	1.3	36
24	Restoration of Late Neoarcheanâ€“Early Cambrian tectonics in the Rengali orogen and its environs (eastern India): The Antarctic connection. Lithos, 2016, 263, 190-212.	1.4	36
25	Exhumation of the UHP Tso Morari eclogite as a diapir rising through the mantle wedge. Contributions To Mineralogy and Petrology, 2015, 169, 1.	3.1	35
26	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
27	Magmatic processes that produced lunar fire fountains. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	30
28	Subaqueous early eruptive phase of the late Aptian Rajmahal volcanism, India: Evidence from volcaniclastic rocks, bentonite, black shales, and oolite. Geoscience Frontiers, 2017, 8, 809-822.	8.4	28
29	Late Cretaceous I- and A-type magmas in eastern Turkey: Magmatic response to double-sided subduction of Paleo- and Neo-Tethyan lithospheres. Lithos, 2019, 326-327, 39-70.	1.4	25
30	Thermochemical Data on Mineral Phases: The System CaO-MgO-Al2O3-SiO2. Journal of Petrology, 1986, 27, 827-842.	2.8	24
31	Improved confidence in (Uâ€Th)/He thermochronology using the laser microprobe: An example from a Pleistocene leucogranite, Nanga Parbat, Pakistan. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	22
32	A Petrographic Atlas of Ophiolite. , 2014, , .		22
33	An assembly of the Indian Shield at c. 1.0â€¯Ga and shearing at c. 876â€“784â€¯Ma in Eastern India: Insights from contrasting P-T paths, and burial and exhumation rates of metapelitic granulites. Precambrian Research, 2018, 317, 117-136.	2.7	21
34	Evaluation of thermochemical data on Fe-Mg olivine, orthopyroxene, spinel and Ca-Fe-Mg-Al garnet. Geochimica Et Cosmochimica Acta, 1987, 51, 2515-2525.	3.9	20
35	Paleomagnetic evidence for a disk substructure in the early solar system. Science Advances, 2021, 7, eabj6928.	10.3	19
36	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

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37	Constraints from monazite and xenotime growth modelling in the Mn<scp>CKFMASH</scp>â€<scp>PYC</scp>e system on the Pâ€“T path of a metapelite from Shillongâ€Meghalaya Plateau: implications for the Indian shield assembly. Journal of Metamorphic Geology, 2017, 35, 393-412.	3.4	18
38	Origin of the Powai ankaramite, and the composition, Pâ€“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
39	Depth of alkalic magma reservoirs below Kolekole cinder cone, Southwest rift zone, East Maui, Hawaii. Journal of Volcanology and Geothermal Research, 2005, 145, 1-22.	2.1	12
40	The final pulse of the Early Cenozoic adakitic activity in the Eastern Pontides Orogenic Belt (NE) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 slab window setting. Journal of Asian Earth Sciences, 2018, 157, 141-165.	2.3	12
41	Discovery of Latest Cretaceous OIB-type alkaline gabbros in the Eastern Pontides Orogenic Belt, NE Turkey: Evidence for tectonic emplacement of seamounts. Lithos, 2018, 310-311, 182-200.	1.4	11
42	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. Tectonics, 2018, 37, 3174-3206.	2.8	10
43	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. Neues Jahrbuch Fur Mineralogie, Abhandlungen, 1998, 174, 79-102.	0.3	10
44	A preliminary geochemical study of zircons and monazites from Deccan felsic dikes, Rajula, Gujarat, India: Implications for crustal melting. Journal of Earth System Science, 2004, 113, 533-542.	1.3	8
45	Crystallization history of a massif anorthosite in the eastern Indian shield margin based on borehole lithology. Journal of Asian Earth Sciences, 2005, 25, 77-94.	2.3	8
46	Grove et al. reply. Nature, 2010, 468, E7-E8.	27.8	8
47	Rapid time scale of Earthâ€™s youngest known ultrahigh-pressure metamorphic event, Papua New Guinea. Geology, 2017, 45, 795-798.	4.4	8
48	Origin of the primitive, strongly SiO2-undersaturated alkalic rocks from the Deccan Traps by low-degree mantle melting and high-pressure fractional crystallization. Contributions To Mineralogy and Petrology, 2021, 176, 1.	3.1	7
49	Late Cretaceous alkaline magmas of the Eastern Pontides Orogenic Belt (NE Turkey): A review with new geological, geochemical and geochronological data. Gondwana Research, 2021, 97, 204-239.	6.0	7
50	Geology of the Naga Hills Ophiolite. , 2014, , 25-48.		6
51	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
52	Xenoliths in Late Cretaceous to Early Paleocene adakites of the Eastern Pontides Orogenic Belt, NE Turkey. Lithos, 2021, 398-399, 106265.	1.4	2
53	Geological and Geochemical Studies of Kolekole Cinder Cone, Southwest Rift Zone, East Maui, Hawaii. , 2011, , 95-113.		0
54	Petrogenesis. , 2014, , 79-83.		0

#	Article	IF	Citations
55	Petrography. , 2014, , 57-78.		0