Nv Chalapathi Rao

List of Publications by Year in descending order

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98 papers 2,013 citations

236925 25 h-index 276875 41 g-index

102 all docs

102 docs citations

times ranked

102

726 citing authors

#	Article	IF	Citations
1	Mineralogy and petrology of lamprophyre and dolerite dykes from the end-Cretaceous (~ 66ÂMa) Phenaimata alkaline igneous complex, north-western India: evidence for open magma chamber fractionation, mafic recharge, and disaggregation of crystal mush zone in a large igneous province. Mineralogy and Petrology, 2023, 117, 415-445.	1.1	2
2	Paleoproterozoic metaluminous syenites synchronous with the <i>c.</i> 2.21 Ga mafic dyke swarms from the Eastern Dharwar Craton, India: implications for alkaline magmatism associated with the breakup of supercraton Superia. Geological Society Special Publication, 2022, 513, 133-156.	1.3	3
3	Petrology and Nd–Sr isotopic composition of alkaline lamprophyres from the Early to Late Cretaceous Mundwara Alkaline Complex, NW India: evidence of crystal fractionation, accumulation and corrosion in a complex magma chamber plumbing system. Geological Society Special Publication, 2022, 513, 413-442.	1.3	10
4	Mesoproterozoic ⁴⁰ Ar– ³⁹ Ar ages of some lamproites from the Cuddapah Basin and Eastern Dharwar Craton, southern India: implications for diamond provenance of the Banganapalle Conglomerates, age of the Kurnool Group and Columbia tectonics. Geological Society Special Publication, 2022, 513, 157-178.	1.3	6
5	Lithium isotopes in kimberlites, lamproites and lamprophyres as tracers of source components and processes related to supercontinent cycles. Geological Society Special Publication, 2022, 513, 209-236.	1.3	8
6	Lamprophyres, lamproites and related rocks as tracers to supercontinent cycles and metallogenesis. Geological Society Special Publication, 2022, 513, 1-16.	1.3	12
7	Chrome-diopside Xenocrysts Entrained in a Neoproterozoic Lamprophyre Dyke from the Mysuru Area: Their Origin and Implications for Lithospheric Thickness Beneath the Western Dharwar Craton, Southern India. Journal of the Geological Society of India, 2022, 98, 23-34.	1.1	1
8	About this title - Lamprophyres, Lamproites and Related Rocks: Tracers to Supercontinent Cycles and Metallogenesis. Geological Society Special Publication, 2022, 513, .	1.3	4
9	Evincing the presence of a transâ€Gondwanian mobile belt in the interior of the Princess Elizabeth Land, East Antarctica: insights from offshore detrital sediments, rock fragments, and monazite geochronology. Geological Journal, 2022, 57, 2581-2607.	1.3	5
10	Petrology and geochemistry of the diamondiferous Jamnidih occurrence, Bastar Craton, Central India: Metabasalt and not a kimberlite. Geosystems and Geoenvironment, 2022, 1, 100020.	3.2	3
11	Alkaline rocks from the Deccan Large Igneous Province: Time–space distribution, petrology, geochemistry and economic aspects. Journal of Earth System Science, 2022, 131, .	1.3	7
12	Green core clinopyroxenes from basanites of Petpenoun volcanoes, Noun Plain, Cameroon volcanic line: chemistry and genesis. Bulletin of Volcanology, 2021, 83, 1.	3.0	8
13	PGE and isotopic characteristics of Shergol and Suru Valley Ophiolites, Western Ladakh: Implications for supra-subduction tectonics along Indus Suture Zone. Geoscience Frontiers, 2021, 12, 101118.	8.4	18
14	Paleoproterozoic calc-alkaline lamprophyres from the Sidhi Gneissic complex, India: Implications for plate tectonic evolution of the Central Indian Tectonic Zone. Precambrian Research, 2021, 362, 106316.	2.7	7
15	U-Pb zircon age, geochemistry and petrogenesis of Mesoarchean anorthositic rocks from the Holenarsipur Greenstone Belt, Western Dharwar Craton: Implications for accretionary tectonics in southern India. Lithos, 2021, 398-399, 106268.	1.4	6
16	A new analytical protocol for high precision U–Th–Pb chemical dating of xenotime from the TTG gneisses of the Bundelkhand Craton, central India, using CAMECA SXFive Electron Probe Micro Analyzer. Journal of Earth System Science, 2020, 129, 1.	1.3	4
17	Petro-geochemistry, Sr Nd isotopes and 40Ar/39Ar ages of fractionated alkaline lamprophyres from the Mount Girnar igneous complex (NW India): Insights into the timing of magmatism and the lithospheric mantle beneath the Deccan Large Igneous Province. Lithos, 2020, 374-375, 105712.	1.4	10
18	Insights into geological evolution of Princess Elizabeth Land, East Antarctica-clues for continental suturing and breakup since Rodinian time. Gondwana Research, 2020, 84, 260-283.	6.0	20

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19	Supercontinent transition as a trigger for \hat{A} – 1.1 Gyr diamondiferous kimberlites and related magmatism in India. Lithos, 2020, 370-371, 105620.	1.4	22
20	Mineralogy and petrology of shoshonitic lamprophyre dykes from the Sivarampeta area, diamondiferous Wajrakarur kimberlite field, Eastern Dharwar craton, southern India. Journal of Mineralogical and Petrological Sciences, 2020, 115, 202-215.	0.9	5
21	Archean evolution of the Bastar craton-present status. Proceedings of the Indian National Science Academy, 2020, 86, .	1.4	2
22	Lamprophyres from the Indian shield: A review of their occurrence, petrology, tectonomagmatic significance and relationship with the Kimberlites and related rocks. Episodes, 2020, 43, 231-248.	1.2	21
23	Kimberlites, lamproites and lamprophyres from the Indian shield: Highlights of researches during 2016-2019. Proceedings of the Indian National Science Academy, 2020, 86, .	1.4	4
24	Arc-Related Pyroxenites Derived from a Long-Lived Neoarchean Subduction System at the Southwestern Margin of the Cuddapah Basin: Geodynamic Implications for the Evolution of the Eastern Dharwar Craton, Southern India. Journal of Geology, 2019, 127, 567-591.	1.4	6
25	Petrogenesis of end-Cretaceous/Early Eocene lamprophyres from the Deccan Large Igneous Province: Constraints on plume-lithosphere interaction and the post-Deccan lithosphere-asthenosphere boundary (LAB) beneath NW India. Lithos, 2019, 346-347, 105139.	1.4	17
26	Pyroxenite dykes with petrological and geochemical affinities to the Alaskan-type ultramafics at the northwestern margin of the Cuddapah basin, Dharwar craton, southern India: Tectonomagmatic implications. Journal of Earth System Science, 2019, 128, 1.	1.3	0
27	Analytical Protocol for U-Th-Pb Chemical Dating of Monazite using CAMECA SXFive EPMA Installed at the Mantle Petrology Laboratory, Department of Geology, Banaras Hindu University, Varanasi, India. Journal of the Geological Society of India, 2019, 93, 46-50.	1.1	12
28	Lithosphere–asthenosphere interaction and carbonatite metasomatism in the genesis of Mesoproterozoic shoshonitic lamprophyres at Korakkodu, Wajrakarur kimberlite field, Eastern Dharwar Craton, southern India. Geological Journal, 2019, 54, 3060-3077.	1.3	11
29	Coupled Assimilation and Fractional Crystallization (AFC) and Mantle Plume Source(s) Contribution in the Generation of Paleoproterozoic Mafic Dykes of the Eastern Dharwar Craton, Southern India. Journal of the Geological Society of India, 2019, 93, 157-162.	1.1	8
30	The Department of Geology, Institute of Science, Banaras Hindu University, Varanasi: A Success Story of 100 Years. Journal of the Geological Society of India, 2019, 94, 555-558.	1.1	0
31	Neoarchean suprasubduction zone magmatism in the Sonakhan greenstone belt, Bastar Craton, India: Implications for subduction initiation and melt extraction. Geological Journal, 2019, 54, 3980-4000.	1.3	6
32	Petrology and Sr-Nd isotope systematics of the Ahobil kimberlite (Pipe-16) from the Wajrakarur field, Eastern Dharwar craton, southernÂlndia. Geoscience Frontiers, 2019, 10, 1167-1186.	8.4	11
33	Boron Measurement in Tourmaline from Pegmatite Veins, Simdega Area, Chhotanagpur Gneissic Complex, Eastern India using Electron Probe Microanalysis. Current Science, 2019, 117, 858.	0.8	2
34	Petrogenesis of an alkaline lamprophyre (camptonite) with ocean island basalt (OIB)-affinity at the NW margin of the Cuddapah basin, eastern Dharwar craton, southern India. Neues Jahrbuch Fur Mineralogie, Abhandlungen, 2019, 196, 149-177.	0.3	2
35	Cobaltoan pyrite in a lamprophyre from the Sidhi Gneissic complex, Mahakoshal belt, Central India. Journal of the Geological Society of India, 2018, 91, 5-8.	1.1	9
36	Rift-associated ultramafic lamprophyre (damtjernite) from the middle part of the Lower Cretaceous (125ÂMa) succession of Kutch, northwestern India: Tectonomagmatic implications. Geoscience Frontiers, 2018, 9, 1883-1902.	8.4	24

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37	Chrome-diopside Megacryst-bearing Lamprophyre from the Late Cretaceous Mundwara Alkaline Complex, NW India: Petrological and Geodynamic Implications. Journal of the Geological Society of India, 2018, 91, 395-399.	1.1	5
38	Imprints of modal metasomatism in the post-Deccan subcontinental lithospheric mantle: petrological evidence from an ultramafic xenolith in an Eocene lamprophyre, NW India. Geological Society Special Publication, 2018, 463, 117-136.	1.3	35
39	An islandâ€arc tectonic setting for the Neoarchean Sonakhan Greenstone Belt, Bastar Craton, Central India: Insights from the chromite mineral chemistry and geochemistry of the siliceous highâ€Mg basalts (SHMB). Geological Journal, 2018, 53, 1526-1542.	1.3	17
40	Post-collisional calc-alkaline lamprophyres from the Kadiri greenstone belt: Evidence for the Neoarchean convergence-related evolution of the Eastern Dharwar Craton and its schist belts. Lithos, 2018, 320-321, 105-117.	1.4	38
41	Petrology and geochemistry of the Mesoproterozoic Vattikod lamproites, Eastern Dharwar Craton, southern India: evidence for multiple enrichment of sub-continental lithospheric mantle and links with amalgamation and break-up of the Columbia supercontinent. Contributions To Mineralogy and Petrology. 2018, 173, 1.	3.1	25
42	Recurrent Lamprophyre Magmatism in the Narmada Rift Zone: Petrographic and Mineral Chemistry Evidence from Xenoliths in the Eocene Dongargaon Lamprophyre, NW Deccan Large Igneous Province, India. Journal of the Indian Institute of Science, 2018, 98, 401-415.	1.9	6
43	The Late Cretaceous diamondiferous pyroclastic kimberlites from the Fort à la Corne (FALC) field, Saskatchewan craton, Canada: Petrology, geochemistry and genesis. Gondwana Research, 2017, 44, 236-257.	6.0	4
44	Subduction – tectonics in the evolution of the eastern Dharwar craton, southern India: Insights from the post-collisional calc-alkaline lamprophyres at the western margin of the Cuddapah basin. Precambrian Research, 2017, 298, 235-251.	2.7	46
45	Petrogenesis of a Mesoproterozoic shoshonitic lamprophyre dyke from the Wajrakarur kimberlite field, eastern Dharwar craton, southern India: Geochemical and Sr-Nd isotopic evidence for a modified sub-continental lithospheric mantle source. Lithos, 2017, 292-293, 218-233.	1.4	47
46	Petrology, genesis and geodynamic implication of the Mesoproterozoic–Late Cretaceous Timmasamudram kimberlite cluster, Wajrakarur field, Eastern Dharwar Craton, southern India. Geoscience Frontiers, 2017, 8, 541-553.	8.4	26
47	Dedication to Professor Rex Tregilgas Prider, 1910–2005. Mineralogy and Petrology, 2016, 110, 155-157.	1.1	0
48	Origin of Ti-rich garnets in the groundmass of Wajrakarur field kimberlites, southern India: insights from EPMA and Raman spectroscopy. Mineralogy and Petrology, 2016, 110, 295-307.	1.1	17
49	Kimberlites, lamproites, carbonatites and associated alkaline rocks: a tribute to the work of Rex T. Prider. Mineralogy and Petrology, 2016, 110, 149-153.	1.1	2
50	Petrology, 40Ar/39Ar age, Sr-Nd isotope systematics, and geodynamic significance of an ultrapotassic (lamproitic) dyke with affinities to kamafugite from the easternmost margin of the Bastar Craton, India. Mineralogy and Petrology, 2016, 110, 269-293.	1.1	13
51	A Late Cretaceous (ca. 90 Ma) kimberlite event in southern India: Implication for sub-continental lithospheric mantle evolution and diamond exploration. Gondwana Research, 2016, 35, 378-389.	6.0	52
52	Petrogenesis of Mesoproterozoic lamproite dykes from the Garledinne (Banganapalle) cluster, south-western Cuddapah Basin, southern India. Mineralogy and Petrology, 2016, 110, 247-268.	1.1	14
53	Kimberlites, Lamproites, Lamprophyres, Carbonatites, other Alkaline Rocks, and Mafic Dykes from the Indian Shield: Glimpses of Research (2012-2016). Proceedings of the Indian National Science Academy, 2016, 82, .	1.4	1
54	An alternate perspective on the opening and closing of the intracratonic Purana basins in peninsular India. Journal of the Geological Society of India, 2015, 86, 118-119.	1.1	0

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55	Tungsten, barium and base metal mineralization in a layer of amphibolite in Mesoarchaean Ghattihosahalli belt, western Dharwar craton, Karnataka, India. Journal of the Geological Society of India, 2015, 86, 648-656.	1.1	3
56	Platinum-group element (PGE) geochemistry of Deccan orangeites, Bastar craton, central India: Implication for a non-terrestrial origin for iridium enrichment at the K–Pg boundary. Journal of Asian Earth Sciences, 2014, 84, 24-33.	2.3	21
57	Alkali feldspar syenites with shoshonitic affinities from Chhotaudepur area: Implication for mantle metasomatism in the Deccan large igneous province. Geoscience Frontiers, 2014, 5, 261-276.	8.4	21
58	Petrology and petrogenesis of Mesoproterozoic lamproites from the Ramadugu field, NW margin of the Cuddapah basin, Eastern Dharwar craton, southern India. Lithos, 2014, 196-197, 150-168.	1.4	26
59	Petrology and geochemistry of high-titanium and low-titanium mafic dykes from the Damodar valley, Chhotanagpur Gneissic Terrain, eastern India and their relation to Cretaceous mantle plume(s). Journal of Asian Earth Sciences, 2014, 84, 34-50.	2.3	24
60	Thin lithosphere–asthenosphere boundary beneath Eastern Indian craton. Tectonophysics, 2014, 612-613, 128-133.	2.2	53
61	Petrogenesis of Kerguelen mantle plume-linked Early Cretaceous ultrapotassic intrusive rocks from the Gondwana sedimentary basins, Damodar Valley, Eastern India. Earth-Science Reviews, 2014, 136, 96-120.	9.1	43
62	Petrogenesis of the crater-facies Tokapal kimberlite pipe, IndrÄvati Basin, Central India. Geoscience Frontiers, 2014, 5, 781-790.	8.4	7
63	Petrogenesis of macrocrystic and aphanitic intrusions in Mesoproterozoic diamondiferous pipe 2 kimberlite, Wajrakarur kimberlite field, eastern Dharwar craton, southern India. Geochemical Journal, 2014, 48, 491-507.	1.0	7
64	K-rich titanate from the Jharia ultrapotassic rock, Gondwana coal fields, eastern India, and its petrological significance. Journal of the Geological Society of India, 2013, 81, 733-736.	1.1	6
65	Re–Os isotope study of Indian kimberlites and lamproites: Implications for mantle source regions and cratonic evolution. Chemical Geology, 2013, 353, 36-47.	3.3	54
66	Tokapal tuff-facies kimberlite, Bastar craton, Central India: A nickel prospect?. Journal of the Geological Society of India, 2013, 82, 595-600.	1.1	3
67	Mesoproterozoic U–Pb ages, trace element and Sr–Nd isotopic composition of perovskite from kimberlites of the Eastern Dharwar craton, southern India: Distinct mantle sources and a widespread 1.1Ga tectonomagmatic event. Chemical Geology, 2013, 353, 48-64.	3.3	96
68	New palaeomagnetic and rock magnetic results on Mesoproterozoic kimberlites from the Eastern Dharwar craton, southern India: Towards constraining India's position in Rodinia. Precambrian Research, 2013, 224, 588-596.	2.7	17
69	Petrology, Bulk-Rock Geochemistry, Indicator Mineral Composition and Zircon U–Pb Geochronology of the End-Cretaceous Diamondiferous Mainpur Orangeites, Bastar Craton, Central India. , 2013, , 93-121.		6
70	Petrogenesis of lamprophyres from Chhota Udepur area, Narmada rift zone, and its relation to Deccan magmatism. Journal of Asian Earth Sciences, 2012, 45, 24-39.	2.3	21
71	Mesoproterozoic emplacement and enriched mantle derivation of the Racherla alkali syenite, Palaeo-Mesoproterozoic Cuddapah Basin, southern India: insights from in situ Sr–Nd isotopic analysis on apatite. Geological Society Special Publication, 2012, 365, 185-195.	1.3	21
72	Diamond-facies chrome spinel from the Tokapal kimberlite, IndrÄvati basin, central India and its petrological significance. Mineralogy and Petrology, 2012, 105, 121-133.	1.1	7

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73	Origin and diamond prospectivity of Mesoproterozoic kimberlites from the Narayanpet field, Eastern Dharwar Craton, southern India: insights from groundmass mineralogy, bulk hemistry and perovskite oxybarometry. Geological Journal, 2012, 47, 186-212.	1.3	20
74	Diamond prospectivity of Mesoproterozoic lamproites from the Krishna valley, eastern Dharwar craton, southern India: Insights from whole-rock geochemistry. Geochemical Journal, 2011, 45, 79-85.	1.0	1
75	40Ar/39Ar ages of mafic dykes from the Mesoproterozoic Chhattisgarh basin, Bastar craton, Central India: Implication for the origin and spatial extent of the Deccan Large Igneous Province. Lithos, 2011, 125, 994-1005.	1.4	34
76	Kimberlites, flood basalts and mantle plumes: New insights from the Deccan Large Igneous Province. Earth-Science Reviews, 2011, 107, 315-324.	9.1	89
77	Petrogenesis of gabbro and orthopyroxene gabbro from the Phenai Mata Igneous Complex, Deccan volcanic province: Products of concurrent assimilation and fractional crystallization. Journal of the Geological Society of India, 2011, 78, 501-509.	1.1	13
78	Petrogenesis of the end-Cretaceous diamondiferous Behradih orangeite pipe: implication for mantle plume–lithosphere interaction in the Bastar craton, Central India. Contributions To Mineralogy and Petrology, 2011, 161, 721-742.	3.1	62
79	Petrology, geochemistry and genesis of newly discovered Mesoproterozoic highly magnesian, calcite-rich kimberlites from Siddanpalli, Eastern Dharwar Craton, Southern India: products of subduction-related magmatic sources?. Mineralogy and Petrology, 2010, 98, 313-328.	1.1	25
80	Carbonate xenoliths hosted by the Mesoproterozoic Siddanpalli Kimberlite Cluster (Eastern Dharwar) Tj ETQq0 0 metallogenesis. International Journal of Earth Sciences, 2010, 99, 1791-1804.	0 rgBT /0 [,] 1.8	verlock 10 Tf 34
81	Occurrence of lamproitic dykes at the northern Margin of the Indravati Basin, Bastar Craton, Central India. Journal of the Geological Society of India, 2010, 75, 632-643.	1.1	10
82	Glimmeritic enclave in a lamprophyre from the Settupalle alkaline pluton, Eastern Ghats mobile belt. Journal of the Geological Society of India, 2010, 75, 783-790.	1.1	0
83	Diamondiferous kimberlites in central India synchronous with Deccan flood basalts. Earth and Planetary Science Letters, 2010, 290, 142-149.	4.4	88
84	Petrogenesis of the Mesoproterozoic Lamproites from the Krishna Valley, Eastern Dharwar Craton, Southern India. Precambrian Research, 2010, 177, 103-130.	2.7	45
85	Cretaceous potassic intrusives with affinities to aillikites from Jharia area: Magmatic expression of metasomatically veined and thinned lithospheric mantle beneath Singhbhum Craton, Eastern India. Lithos, 2009, 112, 407-418.	1.4	39
86	Petrology and geochemistry of diamondiferous Mesoproterozoic kimberlites from Wajrakarur kimberlite field, Eastern Dharwar craton, southern India: genesis and constraints on mantle source regions. Contributions To Mineralogy and Petrology, 2009, 157, 245-265.	3.1	43
87	Mantle-derived mafic-ultramafic xenoliths and the nature of Indian sub-continental lithosphere. Journal of the Geological Society of India, 2009, 73, 657-679.	1.1	50
88	MINERALOGY AND GEOCHEMISTRY OF KIMBERLITES NK-2 AND KK-6, NARAYANPET KIMBERLITE FIELD, EASTERN DHARWAR CRATON, SOUTHERN INDIA: EVIDENCE FOR A TRANSITIONAL KIMBERLITE SIGNATURE. Canadian Mineralogist, 2009, 47, 1117-1135.	1.0	8
89	Limestone Xenolith in Siddanpalli Kimberlite, Gadwal Graniteâ€Greenstone Terrain, Eastern Dharwar Craton, Southern India: Remnant of Proterozoic Platformal Cover Sequence of Bhima/Kurnool Age?. Journal of Geology, 2008, 116, 184-191.	1.4	33
90	Petrology, geochemistry and tectonic significance of Palaeoproterozoic alkaline lamprophyres from the Jungel Valley, Mahakoshal supracrustal belt, Central India. Mineralogy and Petrology, 2007, 89, 189-215.	1.1	42

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91	Mesoproterozoic diamondiferous ultramafic pipes at Majhgawan and Hinota, Panna area, central India: Key to the nature of sub-continental lithospheric mantle beneath the Vindhyan basin. Journal of Earth System Science, 2006, 115, 161-183.	1.3	22
92	A petrological and geochemical reappraisal of the Mesoproterozoic diamondiferous Majhgawan pipe of central India: evidence for transitional kimberlite? orangeite (group II kimberlite)? lamproite rock type. Mineralogy and Petrology, 2005, 84, 69-106.	1.1	40
93	Petrogenesis of Proterozoic Lamproites and Kimberlites from the Cuddapah Basin and Dharwar Craton, Southern India: a Reply. Journal of Petrology, 2005, 46, 1081-1084.	2.8	5
94	Petrogenesis of Proterozoic Lamproites and Kimberlites from the Cuddapah Basin and Dharwar Craton, Southern India. Journal of Petrology, 2004, 45, 907-948.	2.8	139
95	New Proterozoic Kî—, Ar ages for some kimberlites and lamproites from the Cuddapah Basin and Dharwar Craton, South India: evidence for non-contemporaneous emplacement. Precambrian Research, 1996, 79, 363-369.	2.7	75
96	Larnitic kirschsteinite from the Kotakonda kimberlite, Andhra Pradesh, India. Mineralogical Magazine, 1996, 60, 513-516.	1.4	7
97	Petrological and geochemical characterization of the arc-related Suru–Thasgam ophiolitic slice along the Indus Suture Zone, Ladakh Himalaya. Geological Magazine, 0, , 1-20.	1.5	6
98	Platinumâ€group element and Au geochemistry of an ultramafic intrusion from the Sonakhan greenstone belt, Bastar craton, Central India: Tectonoâ€magmatic implications. Geological Journal, 0, , .	1.3	0