

# Babu Elapavalooru

## List of Publications by Year in descending order

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37  
papers

727  
citations

623734

14  
h-index

552781

26  
g-index

37  
all docs

37  
docs citations

37  
times ranked

840  
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ FTIR study on the dehydration of natural goethite. <i>Journal of Asian Earth Sciences</i> , 2006, 27, 503-511.	2.3	128
2	A translithospheric suture in the vanished 1-Ga lithospheric root of South India: Evidence from contrasting lithosphere sections in the Dharwar Craton. <i>Lithos</i> , 2009, 112, 1109-1119.	1.4	91
3	Phase relations of osumilite and dehydration melting in pelitic rocks: a simple thermodynamic model for the KFMASH system. <i>Contributions To Mineralogy and Petrology</i> , 1996, 124, 383-394.	3.1	69
4	A new cache of Eoarchaean detrital zircons from the Singhbhum craton, eastern India and constraints on early Earth geodynamics. <i>Geoscience Frontiers</i> , 2019, 10, 1359-1370.	8.4	64
5	Evidence for Neoproterozoic basement for the Deccan Volcanic flows around Koyna-Warna region, western India: Zircon U-Pb age and Hf-isotopic results. <i>Journal of the Geological Society of India</i> , 2017, 90, 752-760.	1.1	32
6	Fractionation and fragmentation of glass cosmic spherules during atmospheric entry. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 99, 110-127.	3.9	31
7	Zircon U-Pb ages and Hf isotopic systematics of charnockite gneisses from the Ediacaran-Cambrian high-grade metamorphic terranes, southern India: Constraints on crust formation, recycling, and Gondwana correlations. <i>Bulletin of the Geological Society of America</i> , 2017, 129, 625-648.	3.3	31
8	Correlation of the oldest Toba Tuff to sediments in the central Indian Ocean Basin. <i>Journal of Earth System Science</i> , 2010, 119, 531-539.	1.3	26
9	Grain to outcrop-scale frozen moments of dynamic magma mixing in the syenite magma chamber, Yelagiri Alkaline Complex, South India. <i>Geoscience Frontiers</i> , 2014, 5, 801-820.	8.4	23
10	Chemical, isotopic and amino acid composition of Mukundpura CM2.0 (CM1) chondrite: Evidence of parent body aqueous alteration. <i>Geoscience Frontiers</i> , 2019, 10, 495-504.	8.4	21
11	Chemistry and petrology of Fe-Ni beads from different types of cosmic spherules: Implication for precursors. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 145, 139-158.	3.9	19
12	Zircon U-Pb and molybdenite Re-Os geochronology, with S isotopic composition of sulfides from the Chah-Firouzeh porphyry Cu deposit, Kerman Cenozoic arc, SE Iran. <i>Ore Geology Reviews</i> , 2017, 88, 384-399.	2.7	18
13	Martian meteorite Tissint records unique petrogenesis among the depleted shergottites. <i>Meteoritics and Planetary Science</i> , 2016, 51, 1588-1610.	1.6	16
14	Ordinary chondritic micrometeorites from the Indian Ocean. <i>Meteoritics and Planetary Science</i> , 2015, 50, 1013-1031.	1.6	15
15	Geochemistry and isotopic study of southern Bay of Bengal sediments: Implications for provenance and paleoenvironment during the middle Miocene. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 514, 156-167.	2.3	15
16	A Review of Paleo- to Neoproterozoic crustal evolution in the Dharwar craton, Southern India and the transition towards a Plate Tectonic regime. <i>Episodes</i> , 2020, 43, 51-68.	1.2	15
17	Polycyclic aromatic hydrocarbons in the Mukundpura (CM2) Chondrite. <i>Planetary and Space Science</i> , 2021, 198, 105177.	1.7	11
18	Variations in crustal and lithospheric structure across the Eastern Indian Shield from passive seismic source imaging: Implications to changes in the tectonic regimes and crustal accretion through the Precambrian. <i>Precambrian Research</i> , 2021, 360, 106207.	2.7	11

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19	Source rock properties and kerogen decomposition kinetics of Eocene shales from petroliferous Barmer basin, western Rajasthan, India. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 100, 104497.	4.4	11
20	Chemical layering in the upper mantle of Mars: Evidence from olivine-hosted melt inclusions in Tissint. <i>Meteoritics and Planetary Science</i> , 2017, 52, 251-267.	1.6	9
21	Origin of Cretaceous phosphorites from the onshore of Tamil Nadu, India. <i>Journal of Earth System Science</i> , 2007, 116, 525-536.	1.3	8
22	Petrogenesis of carbonatitic lamproitic dykes from Sidhi gneissic complex, Central India. <i>Geoscience Frontiers</i> , 2018, 9, 531-547.	8.4	8
23	A machine learning-based approach to determine infection status in recipients of BBV152 (Covaxin) whole-virion inactivated SARS-CoV-2 vaccine for serological surveys. <i>Computers in Biology and Medicine</i> , 2022, 146, 105419.	7.0	8
24	Melt inclusion evidence for mantle heterogeneity and magma degassing in the Deccan large Igneous Province, India. <i>Lithos</i> , 2019, 346-347, 105135.	1.4	7
25	Discovery of a kimberlite pipe near Budikonda, Dharwar craton, south India: Field approaches, preliminary petrography and mineral chemistry. <i>Journal of the Geological Society of India</i> , 2014, 84, 633-644.	1.1	5
26	Petrogenesis and tectonic setting of the Bondla mafic-ultramafic complex, western India: Inferences from chromian spinel chemistry. <i>Journal of Asian Earth Sciences</i> , 2016, 130, 192-205.	2.3	5
27	Constraints on the genesis of the Proterozoic bornite dominated copper deposit from Nim ka Thana, western India: An IOCG perspective. <i>Ore Geology Reviews</i> , 2020, 118, 103338.	2.7	5
28	Major and trace element geochemistry of S&Ctype cosmic spherules. <i>Meteoritics and Planetary Science</i> , 2016, 51, 718-742.	1.6	4
29	Chromite chemistry as an indicator of petrogenesis and tectonic setting of the Ranomena ultramafic complex in north-eastern Madagascar. <i>Geological Magazine</i> , 2018, 155, 109-118.	1.5	4
30	Nature of Suspended Particles in Hydrothermal Plume at 3&#176;40'N Carlsberg Ridge:A Comparison with Deep Oceanic Suspended Matter. <i>Current Science</i> , 2017, 112, 139.	0.8	4
31	REE-HFSE distribution/partitioning between garnetiferous restites and TTG from Nademavinapura area, Western Dharwar craton. <i>Journal of the Geological Society of India</i> , 2009, 73, 371-378.	1.1	3
32	Extending the limit of widespread dispersed Toba volcanic glass shards and identification of new in-situ volcanic events in the Central Indian Ocean Basin. <i>Journal of Earth System Science</i> , 2020, 129, 1.	1.3	3
33	New Data on the Mineralogy of Chromite from the Nuggihalli Schist Belt, Western Dharwar Craton, Karnataka, India: Petrogenetic Implications. <i>Acta Geologica Sinica</i> , 2011, 85, 107-115.	1.4	2
34	First finding of native gold from the chromitites of the Mesoarchaeon Tagadur mines, Nuggihalli Schist Belt, Dharwar Craton, south India. <i>Journal of the Geological Society of India</i> , 2013, 81, 737-740.	1.1	2
35	Spinel and Ti-rich schorlomite from the Wajrakarur kimberlites, southern India: Implications for metasomatism, diamond potential and orangeite lineage. <i>Ore Geology Reviews</i> , 2020, 126, 103727.	2.7	2
36	Native Gold and Au-Pt Alloy in Eclogite Xenoliths of Kalyandurg KL-2 Kimberlite, Anantapur District, South India. <i>Journal of the Geological Society of India</i> , 2021, 97, 567-570.	1.1	1

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37	New initiatives to bolster analytical facilities in India for in situ U-Th-Pb Geochronology, Hf and O isotope systematics in zircon: a focus on laboratories at the IUAC, WIHG and CSIR-NGRI. Proceedings of the Indian National Science Academy, 2020, 86, .	1.4	0