

# Saibal Gupta

## List of Publications by Year in descending order

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45  
papers

719  
citations

567281

15  
h-index

580821

25  
g-index

49  
all docs

49  
docs citations

49  
times ranked

405  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural evolution across the Eastern Ghats Mobile Belt–Bastar craton boundary, India: hot over cold thrusting in an ancient collision zone. <i>Journal of Structural Geology</i> , 2004, 26, 233-245.	2.3	83
2	Contrasting pressure-temperature-deformation history across a vestigial craton-mobile belt boundary: the western margin of the Eastern Ghats Belt at Deobhog, India. <i>Journal of Metamorphic Geology</i> , 2000, 18, 683-697.	3.4	80
3	Occurrence, predictors and hazards of elevated groundwater arsenic across India through field observations and regional-scale AI-based modeling. <i>Science of the Total Environment</i> , 2021, 759, 143511.	8.0	61
4	Strain localization, granulite formation and geodynamic setting of ‘hot orogens’: a case study from the Eastern Ghats Province, India. <i>Geological Journal</i> , 2012, 47, 334-351.	1.3	49
5	Superposed deformation and inherited structures in an ancient dilational step-over zone: Post-mortem of the Rengali Province, India. <i>Journal of Structural Geology</i> , 2014, 59, 1-17.	2.3	34
6	Integrated geological and geophysical studies for delineation of chromite deposits: A case study from Tangarparha, Orissa, India. <i>Geophysics</i> , 2011, 76, B173-B185.	2.6	30
7	Disentangling tectonic cycles along a multiply deformed terrane margin: Structural and metamorphic evidence for mid-crustal reworking of the Angul granulite complex, Eastern Ghats Belt, India. <i>Journal of Structural Geology</i> , 2007, 29, 802-818.	2.3	27
8	Alkaline Magmatism Versus Collision Tectonics in the Eastern Ghats Belt, India: Constraints from Structural Studies in the Koraput Complex. <i>Gondwana Research</i> , 2005, 8, 403-419.	6.0	24
9	Jarosite occurrence in the Deccan Volcanic Province of Kachchh, western India: Spectroscopic studies on a Martian analog locality. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 402-431.	3.6	22
10	Neoproterozoic evolution and Cambrian reworking of ultrahigh temperature granulites in the Eastern Ghats Province, India. <i>Journal of Metamorphic Geology</i> , 2019, 37, 977-1006.	3.4	21
11	Ancient terrane boundaries as probable seismic hazards: A case study from the northern boundary of the Eastern Ghats Belt, India. <i>Geoscience Frontiers</i> , 2014, 5, 17-24.	8.4	19
12	Sub-surface structure of a craton–mobile belt interface: Evidence from geological and gravity studies across the Rengali Province–Eastern Ghats Belt boundary, eastern India. <i>Tectonophysics</i> , 2015, 662, 140-152.	2.2	19
13	Metamorphism of the Koraput Alkaline Complex, Eastern Ghats Province, India–Evidence for reworking of a granulite terrane. <i>Precambrian Research</i> , 2008, 165, 153-168.	2.7	17
14	Evidence for structural discordance in the inverted metamorphic sequence of Sikkim Himalaya: Towards resolving the Main Central Thrust controversy. <i>Journal of the Geological Society of India</i> , 2010, 75, 313-322.	1.1	16
15	Strain partitioning along the Mahanadi Shear Zone: Implications for paleo-tectonics of the Eastern Ghats Province, India. <i>Journal of Asian Earth Sciences</i> , 2018, 157, 269-282.	2.3	16
16	Fluoride contamination in and around selected geothermal sites in Odisha, Eastern India: assessment of ionic relations, fluoride exposure and remediation. <i>Environmental Science and Pollution Research</i> , 2021, 28, 18553-18566.	5.3	16
17	The Rauer–Rengali connection in the Indo-Antarctica amalgam: evidence from structure, metamorphism and geochronology. <i>Geological Society Special Publication</i> , 2017, 457, 171-196.	1.3	15
18	Intracontinental orogenesis in an ancient continent–continent collision zone: Evidence from structure, metamorphism and P-T paths across a suspected suture zone within the Eastern Ghats Belt, India. <i>Journal of Asian Earth Sciences</i> , 2012, 49, 376-395.	2.3	14

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19	Deformation History of the Kunavaram Complex, Eastern Ghats Belt, India: Implications for Alkaline Magmatism Along the Indo-Antarctica Suture. <i>Gondwana Research</i> , 2004, 7, 1235-1241.	6.0	13
20	Integrated very low-frequency EM, electrical resistivity, and geological studies on the Lanta Khola landslide, North Sikkim, India. <i>Landslides</i> , 2010, 7, 43-53.	5.4	13
21	Terrestrial Martian Analog Heritage of Kachchh Basin, Western India. <i>Geoheritage</i> , 2022, 14, 1.	2.8	12
22	Analysis of deformation fabric in an Alkaline Complex (Koraput): Implications for time relationship between emplacement, fabric development and regional tectonics. <i>Journal of the Geological Society of India</i> , 2009, 74, 78-94.	1.1	11
23	U-Pb zircon and titanite ages from granulites of the Koraput area – Evidence for Columbia, Rodinia and Gondwana from the Eastern Ghats Province, India. <i>Precambrian Research</i> , 2018, 314, 394-413.	2.7	10
24	Laterite covered mafic-ultramafic rocks: Potential target for chromite exploration – A case study from southern part of Tangarparha, Odisha. <i>Journal of the Geological Society of India</i> , 2015, 86, 519-529.	1.1	9
25	A reappraisal of polymetamorphism in the Eastern Ghats belt – A view from north of the Godavari rift. <i>Journal of Earth System Science</i> , 2001, 110, 369-383.	1.3	8
26	Late tectonic reorientation of lineaments and fabrics in the northern Eastern Ghats Province, India: Evaluating the role of the Mahanadi Shear Zone. <i>Journal of Asian Earth Sciences</i> , 2020, 201, 104071.	2.3	8
27	Locating the Indo-Antarctica suture – Correlating the Rengali, Rauer and Ruker terranes in Gondwana. <i>Polar Science</i> , 2021, 30, 100689.	1.2	8
28	Neoproterozoic extension and decompression in the northern Eastern Ghats Province, India: Mid-crustal signature of Rodinia break-up?. <i>Precambrian Research</i> , 2021, 358, 106149.	2.7	8
29	Elevated Equilibrium Geotherm in Stable Continental Shield: Evidence From Integrated Structural, Hydrological, and Electromagnetic Studies on Nonvolcanic Hot Springs in the Eastern Ghats Belt, India. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB017747.	3.4	8
30	Evolution of stretching lineations in granulite-hosted ductile shear zones, Eastern Ghats Province, India: Role of temperature, strain rate and pre-existing stretching lineations. <i>Journal of Structural Geology</i> , 2020, 138, 104127.	2.3	6
31	Fluid inclusion studies on the Koraput Alkaline Complex, Eastern Ghats Province, India: Implications for mid-Neoproterozoic granulite facies metamorphism and exhumation. <i>Journal of Asian Earth Sciences</i> , 2014, 82, 10-20.	2.3	5
32	Discriminating Tectonic and Magmatic Fabrics in the Remal Granite Gneiss: Implications for Terrane Amalgamation Processes in Southeastern Singhbhum, India. <i>Journal of the Geological Society of India</i> , 2018, 92, 657-660.	1.1	5
33	Forming topography in granulite terrains: Evaluating the role of chemical weathering. <i>Journal of Earth System Science</i> , 2020, 129, 1.	1.3	5
34	Mineralogy and spectroscopy (visible near infrared and Fourier Transform Infrared) of Mukundpura CM2: Implications for asteroidal aqueous alteration. <i>Chemie Der Erde</i> , 2021, 81, 125729.	2.0	5
35	Controls on the scales of equilibrium during granulite facies metamorphism. <i>Journal of Metamorphic Geology</i> , 2021, 39, 519-540.	3.4	5
36	Evaluation of grain boundaries as percolation pathways in quartz-rich continental crust using Atomic Force Microscopy. <i>Scientific Reports</i> , 2021, 11, 9831.	3.3	5

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37	Alteration and submergence of basalts in Kachchh, Gujarat, India: implications for the role of the Deccan Traps in the India–Seychelles break-up. Geological Society Special Publication, 2017, 445, 47-67.	1.3	3
38	The Geodynamic Evolution of the Indian Subcontinent- An Introduction. Episodes, 2020, 43, 7-18.	1.2	3
39	Modelling basalt weathering at elevated CO2 concentrations: implications for terminal to post-magmatic rifting in the Deccan Traps, Kachchh, India. Geological Society Special Publication, 2018, 463, 227-241.	1.3	1
40	An integrated geomorphological and geophysical study of neotectonic activity: Analysis of heavy siltation in the Chilka Lake of Odisha, India. Journal of Earth System Science, 2021, 130, 1.	1.3	1
41	International Association for Gondwana Research (IAGR) 2014 Annual Convention and 11th International Symposium on Gondwana to Asia: A report. Gondwana Research, 2015, 27, 897-900.	6.0	0
42	Structural data extraction from stereographic or equal area projections using image processing. Journal of the Geological Society of India, 2018, 91, 32-40.	1.1	0
43	Neotectonic activity along the Odisha coast, India: Implications for the collapse of the Konark Sun temple and extinction of the ancient River Chandrabhaga. Journal of Earth System Science, 2021, 130, 1.	1.3	0
44	The Northern Margin of the Eastern Ghats Mobile Belt: Evidence for Strike-Slip Tectonics Along a Craton-Mobile Belt Boundary. Society of Earth Scientists Series, 2020, , 153-174.	0.3	0
45	Origin of magmatic and tectonic fabrics in the Remal granite-gneiss, Singhbhum Craton, India. Geological Magazine, 0, , 1-17.	1.5	0