

Dhananjay Ravat

List of Publications by Year in descending order

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69
papers

2,960
citations

236925

25
h-index

168389

53
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72
all docs

72
docs citations

72
times ranked

1810
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal structure of the African continent based on magnetic data: Future geothermal renewable energy explorations in Africa. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112088.	16.4	16
2	Magnetic sources in the Earth's mantle. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 59-69.	29.7	13
3	Re-assessment of the depth to the base of magnetic sources (DBMS) in Australia from aeromagnetic data using the defractal method. <i>Geophysical Journal International</i> , 2021, 225, 530-547.	2.4	16
4	Lunar Magnetic Field Models From Lunar Prospector and SELENE/Kaguya Along-Track Magnetic Field Gradients. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006187.	3.6	16
5	Crustal Composition and Moho Variations of the Central and Eastern United States: Improving Resolution and Geologic Interpretation of EarthScope USArray Seismic Images Using Gravity. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018537.	3.4	7
6	Editorial to "Heat Flow: Recent Advances". <i>International Journal of Earth Sciences</i> , 2018, 107, 1-3.	1.8	12
7	Improved total magnetization direction determination by correlation of the normalized source strength derivative and the reduced-to-pole fields. <i>Geophysics</i> , 2018, 83, J75-J85.	2.6	20
8	LCS-1: a high-resolution global model of the lithospheric magnetic field derived from CHAMP and Swarm satellite observations. <i>Geophysical Journal International</i> , 2017, 211, 1461-1477.	2.4	85
9	Inverse modelling of the reversely magnetized, shallow plumbing system hosting oil reservoirs of the Auca Mahuida volcano (Payeina retroarc, Neuqu�n Basin, Argentina). <i>Geophysical Journal International</i> , 2016, 204, 852-867.	2.4	3
10	Geotherms from the temperature-depth-constrained solutions of 1-D steady-state heat-flow equation. <i>Geophysics</i> , 2016, 81, 1187-1197.		21
11	NAV-Edge: Edge detection of potential-field sources using normalized anisotropy variance. <i>Geophysics</i> , 2014, 79, J43-J53.	2.6	20
12	Estimation of depth to top of magnetic sources using the local-wavenumber approach in an area of shallow Moho and Curie depth, The Red Sea. <i>Interpretation</i> , 2014, 2, SJ1-SJ8.	1.1	5
13	Combined use of the centroid and matched filtering spectral magnetic methods in determining thermomagnetic characteristics of the crust in the structural provinces of Central Brazil. <i>Tectonophysics</i> , 2014, 624-625, 87-99.	2.2	21
14	Depth to Curie temperature across the central Red Sea from magnetic data using the de-fractal method. <i>Tectonophysics</i> , 2014, 624-625, 75-86.	2.2	79
15	Curie isotherm depth from aeromagnetic data constraining shallow heat source depths in the central Aeolian Ridge (Southern Tyrrhenian Sea, Italy). <i>Bulletin of Volcanology</i> , 2013, 75, 1.	3.0	25
16	An improved and stable downward continuation of potential field data: The truncated Taylor series iterative downward continuation method. <i>Geophysics</i> , 2013, 78, J75-J86.	2.6	33
17	Curie depths using combined analysis of Centroid and Matched Filtering Methods in inferring thermomagnetic characteristics of Central Brazil. <i>Geophysics</i> , 2013, 78, J75-J86.		5
18	Estimation of depth to top of magnetic sources using the local wavenumber approach in an area of shallow Moho and Curie depth, the Red Sea. <i>Interpretation</i> , 2013, 1, SJ1-SJ8.		1

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19	Probing magnetic bottom and crustal temperature variations along the Red Sea margin of Egypt. <i>Tectonophysics</i> , 2011, 510, 337-344.	2.2	21
20	Interpretation of Mars southern highlands high amplitude magnetic field with total gradient and fractal source modeling: New insights into the magnetic mystery of Mars. <i>Icarus</i> , 2011, 214, 400-412.	2.5	17
21	Magnetic Methods, Satellite. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 771-774.	0.1	1
22	Sedimentary basins reconnaissance using the magnetic Tilt-Depth method. <i>Exploration Geophysics</i> , 2010, 41, 198-209.	1.1	33
23	Interpretation of magnetic data using tilt-angle derivatives. <i>Geophysics</i> , 2008, 73, L1-L10.	2.6	218
24	High-precision potential-field and gradient-component transformations and derivative computations using cubic B-splines. <i>Geophysics</i> , 2008, 73, I35-I42.	2.6	15
25	Generalized magnetic tiltâ€Euler deconvolution. , 2007, , .		1
26	Tilt-depth method: A simple depth estimation method using first-order magnetic derivatives. <i>The Leading Edge</i> , 2007, 26, 1502-1505.	0.7	263
27	Magnetic anomaly map of the world: merging satellite, airborne, marine and ground-based magnetic data sets. <i>Earth and Planetary Science Letters</i> , 2007, 260, 56-71.	4.4	53
28	National Geophysical Data Center candidate for the World Digital Magnetic Anomaly Map. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	2.5	123
29	A study of spectral methods of estimating the depth to the bottom of magnetic sources from near-surface magnetic anomaly data. <i>Geophysical Journal International</i> , 2007, 169, 421-434.	2.4	178
30	Regional Geothermal Characterisation of East Anatolia from Aeromagnetic, Heat Flow and Gravity Data. <i>Pure and Applied Geophysics</i> , 2007, 164, 975-998.	1.9	73
31	Integration of P- and SH-wave high-resolution seismic reflection and micro-gravity techniques to improve interpretation of shallow subsurface structure: New Madrid seismic zone. <i>Tectonophysics</i> , 2006, 420, 5-21.	2.2	14
32	The quest for the perfect gravity anomaly: Part 1 â€” new calculation standards. , 2006, , .		4
33	The quest for the perfect gravity anomaly: Part 2 â€” Mass effects and anomaly inversion. , 2006, , .		3
34	New model alternatives for improving the representation of the core magnetic field of Antarctica. <i>Antarctic Science</i> , 2006, 18, 101-109.	0.9	18
35	Reply to the discussion. <i>Geophysics</i> , 2006, 71, X32-X33.	2.6	1
36	16. Detection of Buried Steel Drums from Magnetic Anomaly Data Using an Artificial Intelligence Technique. , 2005, , 513-524.		1

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37	Interpretation of magnetic data using an enhanced local wavenumber (ELW) method. <i>Geophysics</i> , 2005, 70, L7-L12.	2.6	76
38	New standards for reducing gravity data: The North American gravity database. <i>Geophysics</i> , 2005, 70, J25-J32.	2.6	171
39	Linearized least-squares method for interpretation of potential-field data from sources of simple geometry. <i>Geophysics</i> , 2004, 69, 783-788.	2.6	64
40	A combined analytic signal and Euler method (AN-EUL) for automatic interpretation of magnetic data. <i>Geophysics</i> , 2003, 68, 1952-1961.	2.6	152
41	New way of processing near-surface magnetic data: The utility of the Comprehensive Model of the Magnetic Field. <i>The Leading Edge</i> , 2003, 22, 784-785.	0.7	16
42	Unraveling the Magnetic Mystery of the Earth's Lithosphere: The Background and the Role of the CHAMP Mission. , 2003, , 251-260.		3
43	Introduction: Seismicity, Quaternary Faulting, and Seismic Hazard. <i>Seismological Research Letters</i> , 2002, 73, 590-596.	1.9	3
44	The Commerce Geophysical Lineament and Its Possible Relation to Mesoproterozoic Igneous Complexes and Large Earthquakes in the Central Illinois Basin. <i>Seismological Research Letters</i> , 2002, 73, 640-659.	1.9	15
45	Compatibility of high-altitude aeromagnetic and satellite-altitude magnetic anomalies over Canada. <i>Geophysics</i> , 2002, 67, 546-554.	2.6	47
46	A source-depth separation filter: Using the Euler method on the derivatives of total intensity magnetic anomaly data. <i>The Leading Edge</i> , 2002, 21, 360-365.	0.7	8
47	Gradients in the interpretation of satellite-altitude magnetic data: an example from central Africa. <i>Journal of Geodynamics</i> , 2002, 33, 131-142.	1.6	25
48	Analytic signal approach and its applicability in environmental magnetic investigations. <i>Journal of Applied Geophysics</i> , 2002, 49, 231-244.	2.1	80
49	Detection of Buried Steel Drums from Magnetic Anomaly Data using a Supervised Neural Network. <i>Journal of Environmental and Engineering Geophysics</i> , 2001, 6, 115-122.	0.5	6
50	Automatic Detection of UXO from Airborne Magnetic Data Using a Neural Network. <i>Subsurface Sensing Technologies and Applications</i> , 2001, 2, 191-213.	0.9	33
51	An altitude-normalized magnetic map of Mars and its interpretation. <i>Geophysical Research Letters</i> , 2000, 27, 2449-2452.	4.0	158
52	The future of satellite magnetic anomaly studies is bright!. <i>The Leading Edge</i> , 1999, 18, 326-329.	0.7	4
53	Velocity-density relationships and modeling the lithospheric density variations of the Kenya Rift. <i>Tectonophysics</i> , 1999, 302, 225-240.	2.2	16
54	Determination of depths to centroids of three-dimensional sources of potential-field anomalies with examples from environmental and geologic applications. <i>Journal of Applied Geophysics</i> , 1998, 39, 191-208.	2.1	7

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55	Recent advances in the verification and geologic interpretation of satellite altitude magnetic anomalies. , 1998, , .		1
56	Geophysical Setting of the Wabash Valley Fault System. Seismological Research Letters, 1997, 68, 567-585.	1.9	35
57	Reply to comments by R. Pucher and T. Wonik. Journal of Applied Geophysics, 1997, 36, 217-219.	2.1	3
58	Magnetic properties of unruisted steel drums from laboratory and field magnetic measurements. Geophysics, 1996, 61, 1325-1335.	2.6	28
59	Analysis of the Euler Method and Its Applicability in Environmental Magnetic Investigations. Journal of Environmental and Engineering Geophysics, 1996, 1, 229-238.	0.5	142
60	An interpretation of the Magsat anomalies of central Europe. Journal of Applied Geophysics, 1995, 34, 83-91.	2.1	24
61	Global vector and scalar Magsat magnetic anomaly maps. Journal of Geophysical Research, 1995, 100, 20111-20136.	3.3	66
62	Considerations of variations in ionospheric field effects in mapping equatorial lithospheric Magsat magnetic anomalies. Geophysical Journal International, 1993, 113, 387-398.	2.4	14
63	European tectonic features observed by Magsat. Tectonophysics, 1993, 220, 157-173.	2.2	18
64	Analysis of MAGSAT magnetic contrasts across Africa and South America. Tectonophysics, 1992, 212, 59-76.	2.2	13
65	Mean magnetic contrasts between oceans and continents. Tectonophysics, 1991, 192, 117-127.	2.2	16
66	Lithospheric magnetic property contrasts within the South American plate derived from damped least-squares inversion of satellite magnetic data. Tectonophysics, 1991, 192, 159-168.	2.2	9
67	Statistical prediction of satellite magnetic anomalies. Geophysical Journal International, 1990, 102, 101-111.	2.4	11
68	Improved inversion of geopotential field anomalies for lithospheric investigations. Geophysics, 1988, 53, 375-385.	2.6	34
69	Microgravimetric and gravity gradient techniques for detection of subsurface cavities. Geophysics, 1984, 49, 1084-1096.	2.6	209