Dhananjay Ravat

List of Publications by Year
in descending order

69 papers	2,960 citations	236925 25 h-index	168389 53 g-index
72 all docs	72 docs citations	72 times ranked	1810 citing authors

#	Article	IF	Citations
1	Tilt-depth method: A simple depth estimation method using first-order magnetic derivatives. The Leading Edge, 2007, 26, 1502-1505.	0.7	263
2	Interpretation of magnetic data using tilt-angle derivatives. Geophysics, 2008, 73, L1-L10.	2.6	218
3	Microgravimetric and gravity gradient techniques for detection of subsurface cavities. Geophysics, 1984, 49, 1084-1096.	2.6	209
4	A study of spectral methods of estimating the depth to the bottom of magnetic sources from near-surface magnetic anomaly data. Geophysical Journal International, 2007, 169, 421-434.	2.4	178
5	New standards for reducing gravity data: The North American gravity database. Geophysics, 2005, 70, J25-J32.	2.6	171
6	An altitude-normalized magnetic map of Mars and its interpretation. Geophysical Research Letters, 2000, 27, 2449-2452.	4.0	158
7	A combined analytic signal and Euler method (AN€UL) for automatic interpretation of magnetic data. Geophysics, 2003, 68, 1952-1961.	2.6	152
8	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
9	National Geophysical Data Center candidate for the World Digital Magnetic Anomaly Map. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	2.5	123
10	LCS-1: a high-resolution global model of the lithospheric magnetic field derived from CHAMP and Swarm satellite observations. Geophysical Journal International, 2017, 211, 1461-1477.	2.4	85
11	Analytic signal approach and its applicability in environmental magnetic investigations. Journal of Applied Geophysics, 2002, 49, 231-244.	2.1	80
12	Depth to Curie temperature across the central Red Sea from magnetic data using the de-fractal method. Tectonophysics, 2014, 624-625, 75-86.	2.2	79
13	Interpretation of magnetic data using an enhanced local wavenumber (ELW) method. Geophysics, 2005, 70, L7-L12.	2.6	76
14	Regional Geothermal Characterisation of East Anatolia from Aeromagnetic, Heat Flow and Gravity Data. Pure and Applied Geophysics, 2007, 164, 975-998.	1.9	73
15	Global vector and scalar Magsat magnetic anomaly maps. Journal of Geophysical Research, 1995, 100, 20111-20136.	3.3	66
16	Linearized least€squares method for interpretation of potential€field data from sources of simple geometry. Geophysics, 2004, 69, 783-788.	2.6	64
17	Magnetic anomaly map of the world: merging satellite, airborne, marine and ground-based magnetic data sets. Earth and Planetary Science Letters, 2007, 260, 56-71.	4.4	53
18	Compatibility of high-altitude aeromagnetic and satellite-altitude magnetic anomalies over Canada. Geophysics, 2002, 67, 546-554.	2.6	47

#	Article	IF	Citations
19	Geophysical Setting of the Wabash Valley Fault System. Seismological Research Letters, 1997, 68, 567-585.	1.9	35
20	Improved inversion of geopotential field anomalies for lithospheric investigations. Geophysics, 1988, 53, 375-385.	2.6	34
21	Automatic Detection of UXO from Airborne Magnetic Data Using a Neural Network. Subsurface Sensing Technologies and Applications, 2001, 2, 191-213.	0.9	33
22	Sedimentary basins reconnaissance using the magnetic Tilt-Depth method. Exploration Geophysics, 2010, 41, 198-209.	1.1	33
23	An improved and stable downward continuation of potential field data: The truncated Taylor series iterative downward continuation method. Geophysics, 2013, 78, J75-J86.	2.6	33
24	Magnetic properties of unrusted steel drums from laboratory and field€magnetic measurements. Geophysics, 1996, 61, 1325-1335.	2.6	28
25	Gradients in the interpretation of satellite-altitude magnetic data: an example from central Africa. Journal of Geodynamics, 2002, 33, 131-142.	1.6	25
26	Curie isotherm depth from aeromagnetic data constraining shallow heat source depths in the central Aeolian Ridge (Southern Tyrrhenian Sea, Italy). Bulletin of Volcanology, 2013, 75, 1.	3.0	25
27	An interpretation of the Magsat anomalies of central Europe. Journal of Applied Geophysics, 1995, 34, 83-91.	2.1	24
28	Probing magnetic bottom and crustal temperature variations along the Red Sea margin of Egypt. Tectonophysics, 2011, 510, 337-344.	2.2	21
29	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. Tectonophysics, 2014, 624-625, 87-99.	2.2	21
30	Geotherms from the temperature-depth€constrained solutions of 1-D steady-state heat-flow equation. , 2016, 12, 1187-1197.		21
31	NAV-Edge: Edge detection of potential-field sources using normalized anisotropy variance. Geophysics, 2014, 79, J43-J53.	2.6	20
32	Improved total magnetization direction determination by correlation of the normalized source strength derivative and the reduced-to-pole fields. Geophysics, 2018, 83, J75-J85.	2.6	20
33	European tectonic features observed by Magsat. Tectonophysics, 1993, 220, 157-173.	2.2	18
34	New model alternatives for improving the representation of the core magnetic field of Antarctica. Antarctic Science, 2006, 18, 101-109.	0.9	18
35	Interpretation of Mars southern highlands high amplitude magnetic field with total gradient and fractal source modeling: New insights into the magnetic mystery of Mars. Icarus, 2011, 214, 400-412.	2.5	17
36	Mean magnetic contrasts between oceans and continents. Tectonophysics, 1991, 192, 117-127.	2.2	16

#	Article	IF	Citations
37	Velocity–density relationships and modeling the lithospheric density variations of the Kenya Rift. Tectonophysics, 1999, 302, 225-240.	2.2	16
38	New way of processing near-surface magnetic data: The utility of the Comprehensive Model of the Magnetic Field. The Leading Edge, 2003, 22, 784-785.	0.7	16
39	Lunar Magnetic Field Models From Lunar Prospector and SELENE/Kaguya Along-Track Magnetic Field Gradients. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006187.	3.6	16
40	Re-assessment of the depth to the base of magnetic sources (DBMS) in Australia from aeromagnetic data using the defractal method. Geophysical Journal International, 2021, 225, 530-547.	2.4	16
41	Thermal structure of the African continent based on magnetic data: Future geothermal renewable energy explorations in Africa. Renewable and Sustainable Energy Reviews, 2022, 158, 112088.	16.4	16
42	The Commerce Geophysical Lineament and Its Possible Relation to Mesoproterozoic Igneous Complexes and Large Earthquakes in the Central Illinois Basin. Seismological Research Letters, 2002, 73, 640-659.	1.9	15
43	High-precision potential-field and gradient-component transformations and derivative computations using cubic B-splines. Geophysics, 2008, 73, I35-I42.	2.6	15
44	Considerations of variations in ionospheric field effects in mapping equatorial lithospheric Magsat magnetic anomalies. Geophysical Journal International, 1993, 113, 387-398.	2.4	14
45	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. Tectonophysics, 2006, 420, 5-21.	2.2	14
46	Analysis of MAGSAT magnetic contrasts across Africa and South America. Tectonophysics, 1992, 212, 59-76.	2.2	13
47	Magnetic sources in the Earth's mantle. Nature Reviews Earth & Environment, 2021, 2, 59-69.	29.7	13
48	Editorial to "Heat Flow: Recent Advances" International Journal of Earth Sciences, 2018, 107, 1-3.	1.8	12
49	Statistical prediction of satellite magnetic anomalies. Geophysical Journal International, 1990, 102, 101-111.	2.4	11
50	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
51	A source-depth separation filter: Using the Euler method on the derivatives of total intensity magnetic anomaly data. The Leading Edge, 2002, 21, 360-365.	0.7	8
52	Determination of depths to centroids of three-dimensional sources of potential-field anomalies with examples from environmental and geologic applications. Journal of Applied Geophysics, 1998, 39, 191-208.	2.1	7
53	Crustal Composition and Moho Variations of the Central and Eastern United States: Improving Resolution and Geologic Interpretation of EarthScope USArray Seismic Images Using Gravity. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018537.	3.4	7
54	Detection of Buried Steel Drums from Magnetic Anomaly Data using a Supervised Neural Network. Journal of Environmental and Engineering Geophysics, 2001, 6, 115-122.	0.5	6

#	Article	IF	Citations
55	Curie depths using combined analysis of Centroid and Matched Filtering Methods in inferring thermomagnetic characteristics of Central Brazil. , 2013, , .		5
56	Estimation of depth to top of magnetic sources using the local-wavenumber approach in an area of shallow Moho and Curie depth â€" The Red Sea. Interpretation, 2014, 2, SJ1-SJ8.	1.1	5
57	The future of satellite magnetic anomaly studies is bright!. The Leading Edge, 1999, 18, 326-329.	0.7	4
58	The quest for the perfect gravity anomaly: Part 1 â€" new calculation standards. , 2006, , .		4
59	Reply to comments by R. Pucher and T. Wonik. Journal of Applied Geophysics, 1997, 36, 217-219.	2.1	3
60	Introduction: Seismicity, Quaternary Faulting, and Seismic Hazard. Seismological Research Letters, 2002, 73, 590-596.	1.9	3
61	The quest for the perfect gravity anomaly: Part 2 â€" Mass effects and anomaly inversion. , 2006, , .		3
62	Inverse modelling of the reversely magnetized, shallow plumbing system hosting oil reservoirs of the Auca Mahuida volcano (Payeina retroarc, NeuquÃ©n Basin, Argentina). Geophysical Journal International, 2016, 204, 852-867.	2.4	3
63	Unraveling the Magnetic Mystery of the Earthâ€™s Lithosphere: The Background and the Role of the CHAMP Mission. , 2003, , 251-260.		3
64	16. Detection of Buried Steel Drums from Magnetic Anomaly Data Using an Artificial Intelligence Technique. , 2005, , 513-524.		1
65	Reply to the discussion. Geophysics, 2006, 71, X32-X33.	2.6	1
66	Generalized magnetic tiltâ€Euler deconvolution. , 2007, , .		1
67	Recent advances in the verification and geologic interpretation of satelliteâ€altitude magnetic anomalies. , 1998, , .		1
68	Estimation of depth to top of magnetic sources using the local wavenumber approach in an area of shallow Moho and Curie depth â€" the Red Sea. , 2013, , .		1
69	Magnetic Methods, Satellite. Encyclopedia of Earth Sciences Series, 2011, , 771-774.	0.1	1