Indrajit G Roy

List of Publications by Year
in descending order

29 papers	310 citations	1040056 9 h-index	888059 17 g-index
30 all docs	30 docs citations	30 times ranked	218 citing authors

#	Article	IF	Citations
1	Self-potential: A low-cost geophysical method in investigating groundwater and contaminant plume. , 2022, , 193-211.		1
2	Interpretation of ship-track magnetic data near Narcondam and Barren Island volcanoes revisited. Journal of Earth System Science, 2021, 130, 1.	1.3	11
3	Applications of Hilbert transform and Newton's root finding algorithm in delineating buried fracture from magnetic anomaly data. Near Surface Geophysics, 2021, 19, 643-659.	1.2	0
4	An optimal Savitzkyâ€"Golay derivative filter with geophysical applications: an example of selfâ€potential data. Geophysical Prospecting, 2020, 68, 1041-1056.	1.9	15
5	On studying flow through a fracture using self-potential anomaly: application to shallow aquifer recharge at Vilarelho da Raia, northern Portugal. Acta Geodaetica Et Geophysica, 2019, 54, 225-242.	1.6	7
6	On the Hilbert-Noda transformation of geophysical time- series. Geophysical Journal International, 2018, 215, 2198-2205.	2.4	4
7	On automated interpretation of magnetic profile for a dipping contact model via total gradient and tilt angle transformation. Modeling Earth Systems and Environment, 2017, 3, 755-768.	3.4	1
8	An alternative approach in establishing relation between vertical and horizontal gradients of 2D potential field. Geophysical Prospecting, 2017, 65, 1687-1693.	1.9	2
9	Interpreting potential field anomaly of an isolated source of regular geometry revisited. Geophysics, 2017, 82, IM41-IM48.	2.6	2
10	On Estimating Differential Conductance from Noisy I-V Measurements in Delineating Device Parameters. Acta Electrotechnica Et Informatica, 2017, 17, 3-8.	0.3	1
11	On computing first and second order derivative spectra. Journal of Computational Physics, 2015, 295, 307-321.	3.8	40
12	Multiscale analysis of high resolution aeromagnetic data for groundwater resource exploration in an arid region of South Australia. Journal of Applied Geophysics, 2014, 105, 159-168.	2.1	6
13	Tilt angle interpretation of dipping fault model. Journal of Applied Geophysics, 2013, 98, 33-43.	2.1	20
14	On robust estimation of discrete Hilbert transform of noisy data. Geophysics, 2013, 78, V239-V249.	2.6	9
15	On computing gradients of potential field data in the space domain. Journal of Geophysics and Engineering, 2013, 10, 035007.	1.4	9
16	Using time-lapse seismic amplitude data to detect variations of pore pressure and fluid saturation due to oil displacement by water: a numerical study based on one-dimensional prestack inversion. Journal of Geophysics and Engineering, 2006, 3, 177-193.	1.4	4
17	Full waveform seismic inversion using a distributed system of computers. Concurrency Computation Practice and Experience, 2005, 17, 1365-1385.	2.2	6
18	Iteratively adaptive regularization in inverse modeling with Bayesian outlook â€" application on geophysical data. Inverse Problems in Science and Engineering, 2005, 13, 655-670.	1.2	13

#	Article	IF	Citations
19	Prestack inversion of a Gulf of Thailand (OBC) data set. Geophysics, 2004, 69, 1470-1477.	2.6	8
20	Computation of differential seismograms and iteration adaptive regularization in prestack waveform inversion. Geophysics, 2003, 68, 2026-2039.	2.6	103
21	Seismic Waveform Inversion: Practical aspects and Application to field seismic data. ASEG Extended Abstracts, 2003, 2003, 1-4.	0.1	0
22	Two problems in preâ€stack inversion: Optimal regularization and computation of differential seismograms. , 2002, , .		0
23	A robust descent type algorithm for geophysical inversion through adaptive regularization. Applied Mathematical Modelling, 2002, 26, 619-634.	4.2	20
24	Preâ€stack inversion of a Gulf of Thailand OBC data set. , 2002, , .		1
25	Two problems in preâ€stack inversion: Optimal regularization and computation of differential seismograms. , 2002, , .		0
26	Joint inversion of reservoir production measurements and 3D preâ€stack seismic data: Proof of concept. , 2002, , .		0
27	A robust inversion scheme for resistivity/IP sounding data. Exploration Geophysics, 2000, 31, 495-501.	1.1	3
28	An efficient non-linear least-squares 1D inversion scheme for resistivity and IP sounding data. Geophysical Prospecting, 1999, 47, 527-550.	1.9	24
29	Regularised 2D Savitzkyâ€Golay derivative filter in estimating second vertical derivative of potential field data. Geophysical Prospecting, 0, , .	1.9	0