

# Indrajit G Roy

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Computation of differential seismograms and iteration adaptive regularization in prestack waveform inversion. <i>Geophysics</i> , 2003, 68, 2026-2039.	2.6	103
2	On computing first and second order derivative spectra. <i>Journal of Computational Physics</i> , 2015, 295, 307-321.	3.8	40
3	An efficient non-linear least-squares 1D inversion scheme for resistivity and IP sounding data. <i>Geophysical Prospecting</i> , 1999, 47, 527-550.	1.9	24
4	A robust descent type algorithm for geophysical inversion through adaptive regularization. <i>Applied Mathematical Modelling</i> , 2002, 26, 619-634.	4.2	20
5	Tilt angle interpretation of dipping fault model. <i>Journal of Applied Geophysics</i> , 2013, 98, 33-43.	2.1	20
6	An optimal Savitzky-Golay derivative filter with geophysical applications: an example of self-potential data. <i>Geophysical Prospecting</i> , 2020, 68, 1041-1056.	1.9	15
7	Iteratively adaptive regularization in inverse modeling with Bayesian outlook – application on geophysical data. <i>Inverse Problems in Science and Engineering</i> , 2005, 13, 655-670.	1.2	13
8	Interpretation of ship-track magnetic data near Narcondam and Barren Island volcanoes revisited. <i>Journal of Earth System Science</i> , 2021, 130, 1.	1.3	11
9	On robust estimation of discrete Hilbert transform of noisy data. <i>Geophysics</i> , 2013, 78, V239-V249.	2.6	9
10	On computing gradients of potential field data in the space domain. <i>Journal of Geophysics and Engineering</i> , 2013, 10, 035007.	1.4	9
11	Prestack inversion of a Gulf of Thailand (OBC) data set. <i>Geophysics</i> , 2004, 69, 1470-1477.	2.6	8
12	On studying flow through a fracture using self-potential anomaly: application to shallow aquifer recharge at Vilarelho da Raia, northern Portugal. <i>Acta Geodaetica Et Geophysica</i> , 2019, 54, 225-242.	1.6	7
13	Full waveform seismic inversion using a distributed system of computers. <i>Concurrency Computation Practice and Experience</i> , 2005, 17, 1365-1385.	2.2	6
14	Multiscale analysis of high resolution aeromagnetic data for groundwater resource exploration in an arid region of South Australia. <i>Journal of Applied Geophysics</i> , 2014, 105, 159-168.	2.1	6
15	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. <i>Journal of Geophysics and Engineering</i> , 2006, 3, 177-193.	1.4	4
16	On the Hilbert-Noda transformation of geophysical time-series. <i>Geophysical Journal International</i> , 2018, 215, 2198-2205.	2.4	4
17	A robust inversion scheme for resistivity/IP sounding data. <i>Exploration Geophysics</i> , 2000, 31, 495-501.	1.1	3
18	An alternative approach in establishing relation between vertical and horizontal gradients of 2D potential field. <i>Geophysical Prospecting</i> , 2017, 65, 1687-1693.	1.9	2

#	ARTICLE	IF	CITATIONS
19	Interpreting potential field anomaly of an isolated source of regular geometry revisited. <i>Geophysics</i> , 2017, 82, IM41-IM48.	2.6	2
20	On automated interpretation of magnetic profile for a dipping contact model via total gradient and tilt angle transformation. <i>Modeling Earth Systems and Environment</i> , 2017, 3, 755-768.	3.4	1
21	Pre-stack inversion of a Gulf of Thailand OBC data set. , 2002, , .		1
22	On Estimating Differential Conductance from Noisy I-V Measurements in Delineating Device Parameters. <i>Acta Electrotechnica Et Informatica</i> , 2017, 17, 3-8.	0.3	1
23	Self-potential: A low-cost geophysical method in investigating groundwater and contaminant plume. , 2022, , 193-211.		1
24	Two problems in pre-stack inversion: Optimal regularization and computation of differential seismograms. , 2002, , .		0
25	Applications of Hilbert transform and Newton's root finding algorithm in delineating buried fracture from magnetic anomaly data. <i>Near Surface Geophysics</i> , 2021, 19, 643-659.	1.2	0
26	Two problems in pre-stack inversion: Optimal regularization and computation of differential seismograms. , 2002, , .		0
27	Joint inversion of reservoir production measurements and 3D pre-stack seismic data: Proof of concept. , 2002, , .		0
28	Seismic Waveform Inversion: Practical aspects and Application to field seismic data. <i>ASEG Extended Abstracts</i> , 2003, 2003, 1-4.	0.1	0
29	Regularised 2D Savitzky-Golay derivative filter in estimating second vertical derivative of potential field data. <i>Geophysical Prospecting</i> , 0, , .	1.9	0