

Saeed Vatankhah

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

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citations

933447

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docs citations

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times ranked

145
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-scale focusing joint inversion of gravity and magnetic data with Gramian constraint. <i>Geophysical Journal International</i> , 2022, 230, 1585-1611.	2.4	6
2	Inversion of large-scale gravity data with application of VNet. <i>Geophysical Journal International</i> , 2022, 231, 306-318.	2.4	3
3	Research Note: A unifying framework for the widely used stabilization of potential field inverse problems. <i>Geophysical Prospecting</i> , 2020, 68, 1416-1421.	1.9	13
4	A tutorial and open source software for the efficient evaluation of gravity and magnetic kernels. <i>Computers and Geosciences</i> , 2020, 144, 104575.	4.2	18
5	A fast methodology for large-scale focusing inversion of gravity and magnetic data using the structured model matrix and the 2-D fast Fourier transform. <i>Geophysical Journal International</i> , 2020, 223, 1378-1397.	2.4	13
6	The IDQ curve: A tool for evaluating the direction of remanent magnetization from magnetic anomalies. <i>Geophysics</i> , 2020, 85, J85-J98.	2.6	9
7	Improving the use of the randomized singular value decomposition for the inversion of gravity and magnetic data. <i>Geophysics</i> , 2020, 85, G93-G107.	2.6	10
8	Susceptibility and remanent magnetization inversion of magnetic data with a priori information of the K�fenigsberger ratio. <i>Geophysical Journal International</i> , 2020, 221, 1090-1109.	2.4	11
9	Analysis of surface gravity and ground deformation responses of geological CO2 reservoirs to variations in CO2 mass and density and reservoir depth and size. <i>Environmental Earth Sciences</i> , 2020, 79, 1.	2.7	6
10	An Efficient Alternating Algorithm for the Lp-Norm Cross-Gradient Joint Inversion of Gravity and Magnetic Data Using the 2-D Fast Fourier Transform. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, , 1-16.	6.3	20
11	Unbiased predictive risk estimation of the Tikhonov regularization parameter: convergence with increasing rank approximations of the singular value decomposition. <i>BIT Numerical Mathematics</i> , 2019, 59, 1031-1061.	2.0	2
12	IGUG: A MATLAB package for 3D inversion of gravity data using graph theory. <i>Computers and Geosciences</i> , 2019, 128, 19-29.	4.2	11
13	Comment on "Three-dimensional potential field data inversion with L0 quasinorm sparse constraints" by Z. Meng, <i>Geophysical Prospecting</i> 66, 626-646. <i>Geophysical Prospecting</i> , 2019, 67, 480-481.	1.9	0
14	Coupled inverse modelling of tight CO2 reservoirs using gravity and ground deformation data. <i>Geophysical Journal International</i> , 2019, 216, 274-286.	2.4	8
15	Total variation regularization of the 3-D gravity inverse problem using a randomized generalized singular value decomposition. <i>Geophysical Journal International</i> , 2018, 213, 695-705.	2.4	21
16	A fast algorithm for regularized focused 3D inversion of gravity data using randomized singular-value decomposition. <i>Geophysics</i> , 2018, 83, G25-G34.	2.6	23
17	Hybrid and Iteratively Reweighted Regularization by Unbiased Predictive Risk and Weighted GCV for Projected Systems. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, B221-B243.	2.8	27
18	3-D Projected L1 inversion of gravity data using truncated unbiased predictive risk estimator for regularization parameter estimation. <i>Geophysical Journal International</i> , 2017, 210, 1872-1887.	2.4	28

#	ARTICLE	IF	CITATIONS
19	Comment on: "Improving compact gravity inversion based on new weighting functions", by Mohammad Hossein Ghalehnoee, Abdolhamid Ansari and Ahmad Ghorbani. Geophysical Journal International, 2017, 211, 346-348.	2.4	1
20	Application of the ℓ_2 principle and unbiased predictive risk estimator for determining the regularization parameter in 3-D focusing gravity inversion. Geophysical Journal International, 2015, 200, 265-277.	2.4	26
21	Automatic estimation of the regularization parameter in 2D focusing gravity inversion: application of the method to the Safo manganese mine in the northwest of Iran. Journal of Geophysics and Engineering, 2014, 11, .	1.4	24
22	Regularization parameter estimation for underdetermined problems by the ℓ_2 principle with application to 2D focusing gravity inversion. Inverse Problems, 2014, 30, 085002.	2.0	11