Saeed Vatankhah

List of Publications by Year
in descending order

22	291	933447 10	940533 16
papers	citations	h-index	g-index

22	22	22	145
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	3-D Projected L1 inversion of gravity data using truncated unbiased predictive risk estimator for regularization parameter estimation. Geophysical Journal International, 2017, 210, 1872-1887.	2.4	28
2	Hybrid and Iteratively Reweighted Regularization by Unbiased Predictive Risk and Weighted GCV for Projected Systems. SIAM Journal of Scientific Computing, 2017, 39, B221-B243.	2.8	27
3	Application of the Ï‡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
4	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
5	A fast algorithm for regularized focused 3D inversion of gravity data using randomized singular-value decomposition. Geophysics, 2018, 83, G25-G34.	2.6	23
6	Total variation regularization of the 3-D gravity inverse problem using a randomized generalized singular value decomposition. Geophysical Journal International, 2018, 213, 695-705.	2.4	21
7	An Efficient Alternating Algorithm for the Lp-Norm Cross-Gradient Joint Inversion of Gravity and Magnetic Data Using the 2-D Fast Fourier Transform. IEEE Transactions on Geoscience and Remote Sensing, 2020, , 1-16.	6.3	20
8	A tutorial and open source software for the efficient evaluation of gravity and magnetic kernels. Computers and Geosciences, 2020, 144, 104575.	4.2	18
9	Research Note: A unifying framework for the widely used stabilization of potential field inverse problems. Geophysical Prospecting, 2020, 68, 1416-1421.	1.9	13
10	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. Geophysical Journal International, 2020, 223, 1378-1397.	2.4	13
11	Regularization parameter estimation for underdetermined problems by the Ï‡ ² principle with application to 2D focusing gravity inversion. Inverse Problems, 2014, 30, 085002.	2.0	11
12	IGUG: A MATLAB package for 3D inversion of gravity data using graph theory. Computers and Geosciences, 2019, 128, 19-29.	4.2	11
13	Susceptibility and remanent magnetization inversion of magnetic data with a priori information of the KÃ¶nigsberger ratio. Geophysical Journal International, 2020, 221, 1090-1109.	2.4	11
14	Improving the use of the randomized singular value decomposition for the inversion of gravity and magnetic data. Geophysics, 2020, 85, G93-G107.	2.6	10
15	The IDQ curve: A tool for evaluating the direction of remanent magnetization from magnetic anomalies. Geophysics, 2020, 85, J85-J98.	2.6	9
16	Coupled inverse modelling of tight CO2 reservoirs using gravity and ground deformation data. Geophysical Journal International, 2019, 216, 274-286.	2.4	8
17	Analysis of surface gravity and ground deformation responses of geological CO2 reservoirs to variations in CO2 mass and density and reservoir depth and size. Environmental Earth Sciences, 2020, 79, 1.	2.7	6
18	Large-scale focusing joint inversion of gravity and magnetic data with Gramian constraint. Geophysical Journal International, 2022, 230, 1585-1611.	2.4	6

#	Article	IF	Citations
19	Inversion of large-scale gravity data with application of VNet. Geophysical Journal International, 2022, 231, 306-318.	2.4	3
20	Unbiased predictive risk estimation of the Tikhonov regularization parameter: convergence with increasing rank approximations of the singular value decomposition. BIT Numerical Mathematics, 2019, 59, 1031-1061.	2.0	2
21	Comment on: â€˜Improving compact gravity inversion based on new weighting functionsâ€™, by Mohammad Hossein Ghalehnoee, Abdolhamid Ansari and Ahmad Ghorbani. Geophysical Journal International, 2017, 211, 346-348.	2.4	1
22	Comment on â€œThreeâ€dimensional potential field data inversion with L0 quasinorm sparse constraintsâ€• by Z. Meng, Geophysical Prospecting 66, 626â€“646. Geophysical Prospecting, 2019, 67, 480-481.	1.9	0