

# Ali Gholami

## List of Publications by Year in descending order

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86  
papers

1,555  
citations

361296

20  
h-index

345118

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g-index

88  
all docs

88  
docs citations

88  
times ranked

725  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Fast and Automatic Sparse Deconvolution in the Presence of Outliers. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 4105-4116.	2.7	133
2	Nonlinear multichannel impedance inversion by total-variation regularization. Geophysics, 2015, 80, R217-R224.	1.4	129
3	Sparse Time-Frequency Decomposition and Some Applications. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3598-3604.	2.7	98
4	Regularization of linear and non-linear geophysical ill-posed problems with joint sparsity constraints. Geophysical Journal International, 2010, 180, 871-882.	1.0	94
5	Improving full-waveform inversion by wavefield reconstruction with the alternating direction method of multipliers. Geophysics, 2019, 84, R125-R148.	1.4	79
6	Fast 3D Blind Seismic Deconvolution via Constrained Total Variation and GCV. SIAM Journal on Imaging Sciences, 2013, 6, 2350-2369.	1.3	74
7	A balanced combination of Tikhonov and total variation regularizations for reconstruction of piecewise-smooth signals. Signal Processing, 2013, 93, 1945-1960.	2.1	72
8	A fast automatic multichannel blind seismic inversion for high-resolution impedance recovery. Geophysics, 2016, 81, V357-V364.	1.4	55
9	Compound Regularization of Full-Waveform Inversion for Imaging Piecewise Media. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1192-1204.	2.7	48
10	A General Framework for Sparsity-Based Denoising and Inversion. IEEE Transactions on Signal Processing, 2011, 59, 5202-5211.	3.2	46
11	Curvelet-TV regularized Bregman iteration for seismic random noise attenuation. Journal of Applied Geophysics, 2014, 109, 233-241.	0.9	33
12	Deconvolutive Radon transform. Geophysics, 2017, 82, V117-V125.	1.4	28
13	S-transform with maximum energy concentration: Application to non-stationary seismic deconvolution. Journal of Applied Geophysics, 2015, 118, 155-166.	0.9	27
14	Constrained nonlinear amplitude variation with offset inversion using Zoeppritz equations. Geophysics, 2018, 83, R245-R255.	1.4	26
15	Semi-blind nonstationary deconvolution: Joint reflectivity and Q estimation. Journal of Applied Geophysics, 2015, 117, 32-41.	0.9	25
16	Seismic random noise attenuation via 3D block matching. Journal of Applied Geophysics, 2017, 136, 353-363.	0.9	25
17	Seismic data analysis by adaptive sparse time-frequency decomposition. Geophysics, 2013, 78, V207-V217.	1.4	24
18	Adaptive singular spectrum analysis for seismic denoising and interpolation. Geophysics, 2019, 84, V133-V142.	1.4	24

#	ARTICLE	IF	CITATIONS
19	Simultaneous constraining of model and data smoothness for regularization of geophysical inverse problems. <i>Geophysical Journal International</i> , 2009, 176, 151-163.	1.0	23
20	Non-convex compressed sensing with frequency mask for seismic data reconstruction and denoising. <i>Geophysical Prospecting</i> , 2014, 62, 1389-1405.	1.0	22
21	Accurate and efficient data-assimilated wavefield reconstruction in the time domain. <i>Geophysics</i> , 2020, 85, A7-A12.	1.4	22
22	Seismic signal sparse time-frequency representation by Lp-quasinorm constraint. , 2019, 87, 43-59.		20
23	Interval- $Q$ estimation and compensation: An adaptive dictionary-learning approach. <i>Geophysics</i> , 2018, 83, V233-V242.	1.4	18
24	Extended-space full-waveform inversion in the time domain with the augmented Lagrangian method. <i>Geophysics</i> , 2022, 87, R63-R77.	1.4	18
25	Implementing bound constraints and total-variation regularization in extended full waveform inversion with the alternating direction method of multiplier: application to large contrast media. <i>Geophysical Journal International</i> , 0, , .	1.0	17
26	Full waveform inversion by proximal Newton method using adaptive regularization. <i>Geophysical Journal International</i> , 2020, 224, 169-180.	1.0	17
27	ADMM-based multiparameter wavefield reconstruction inversion in VTI acoustic media with TV regularization. <i>Geophysical Journal International</i> , 2019, 219, 1316-1333.	1.0	16
28	Nonstationary blind deconvolution of seismic records. <i>Geophysics</i> , 2019, 84, V1-V9.	1.4	16
29	3D inversion of magnetic data seeking sharp boundaries: a case study for a porphyry copper deposit from Now Chun in central Iran. <i>Near Surface Geophysics</i> , 2014, 12, 657-666.	0.6	14
30	Residual statics estimation by sparsity maximization. <i>Geophysics</i> , 2013, 78, V11-V19.	1.4	13
31	3D Dix inversion using bound-constrained total variation regularization. <i>Geophysics</i> , 2019, 84, R311-R320.	1.4	13
32	Consensus optimization of total variation-based reverse time migration. <i>Computational Geosciences</i> , 2020, 24, 1393-1407.	1.2	12
33	Hybrid Tikhonov + total-variation regularization for imaging large-contrast media by full-waveform inversion. , 2018, , .		12
34	Projected Gabor deconvolution. <i>Geophysics</i> , 2016, 81, V151-V157.	1.4	11
35	Fast hyperbolic Radon transform using chirp-z transform. , 2019, 87, 34-42.		11
36	Time-invariant radon transform by generalized Fourier slice theorem. <i>Inverse Problems and Imaging</i> , 2017, 11, 501-519.	0.6	10

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37	Phase retrieval through regularization for seismic problems. <i>Geophysics</i> , 2014, 79, V153-V164.	1.4	9
38	Regularization of geophysical ill-posed problems by iteratively re-weighted and refined least squares. <i>Computational Geosciences</i> , 2016, 20, 19-33.	1.2	9
39	Sparsity-promoting method to estimate the dispersion curve of surface-wave group velocity. <i>Geophysics</i> , 2019, 84, V33-V43.	1.4	9
40	Optimization of wavelet- and curvelet-based denoising algorithms by multivariate SURE and GCV. <i>Journal of Geophysics and Engineering</i> , 2016, 13, 378-390.	0.7	8
41	Efficient wavefield reconstruction at half the Nyquist rate. <i>Geophysics</i> , 2019, 84, A43-A46.	1.4	8
42	Compressed Imaging to Reduce Storage in Adjoint-State Calculations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 9236-9241.	2.7	8
43	A two-step wavelet-based regularization for linear inversion of geophysical data. <i>Geophysical Prospecting</i> , 2009, 57, 847-862.	1.0	7
44	Morphological deconvolution. <i>Geophysics</i> , 2017, 82, V311-V320.	1.4	7
45	Blocky inversion of multichannel elastic impedance for elastic parameters. <i>Journal of Applied Geophysics</i> , 2018, 151, 166-174.	0.9	7
46	Three-parameter Radon transform based on shifted hyperbolas. <i>Geophysics</i> , 2018, 83, V39-V48.	1.4	7
47	Robust wavefield inversion via phase retrieval. <i>Geophysical Journal International</i> , 2020, 221, 1327-1340.	1.0	7
48	Sparsity-Promoting Approach to Polarization Analysis of Seismic Signals in the Time-Frequency Domain. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-11.	2.7	7
49	Accurate 3D frequency-domain seismic wave modeling with the wavelength-adaptive 27-point finite-difference stencil: A tool for full-waveform inversion. <i>Geophysics</i> , 2022, 87, R305-R324.	1.4	7
50	Iteratively re-weighted and refined least squares algorithm for robust inversion of geophysical data. <i>Geophysical Prospecting</i> , 2017, 65, 201-215.	1.0	6
51	Automatic nonhyperbolic velocity analysis by polynomial chaos expansion. <i>Geophysics</i> , 2018, 83, U79-U88.	1.4	6
52	Clarifying some issues on extended FWI: Scattered-field equation, time reversal, and source reconstruction. , 2021, , .		6
53	Improving Full-Waveform Inversion Based On Wavefield Reconstruction Via Bregman Iterations. , 2018, , .		6
54	Imaging Contrasted Media with Total Variation Constrained Full Waveform Inversion and Split Bregman Iterations. , 2018, , .		6

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55	Anderson accelerated augmented Lagrangian for extended waveform inversion. <i>Geophysics</i> , 0, , 1-50.	1.4	6
56	A local-order regularization for geophysical inverse problems. <i>Geophysical Journal International</i> , 2013, 195, 1288-1299.	1.0	5
57	A new stable downward continuation of airborne magnetic data based on Wavelet deconvolution. <i>Near Surface Geophysics</i> , 2014, 12, 751-762.	0.6	5
58	Fast ultrahigh-degree global spherical harmonic synthesis on nonequispaced grid points at irregular surfaces. <i>Journal of Geodesy</i> , 2016, 90, 853-870.	1.6	5
59	Polynomial chaos expansion for nonlinear geophysical inverse problems. <i>Geophysics</i> , 2017, 82, R259-R268.	1.4	5
60	The Shuey-Radon transform. <i>Geophysics</i> , 2019, 84, V197-V206.	1.4	5
61	Multi-parameter wavefield reconstruction inversion for wavespeed and attenuation with bound constraints and total variation regularization. <i>Geophysics</i> , 0, , 1-54.	1.4	5
62	Efficient extended-search space full-waveform inversion with unknown source signatures. <i>Geophysical Journal International</i> , 2021, 227, 257-274.	1.0	5
63	Robust total-variation based geophysical inversion using split Bregman and proximity operators. <i>Journal of Applied Geophysics</i> , 2016, 132, 242-254.	0.9	4
64	Fast hyperbolic deconvolutive Radon transform using generalized Fourier slice theorem. <i>Geophysical Prospecting</i> , 2019, 67, 408-422.	1.0	4
65	Amplitude variation with offset inversion using acoustic-elastic local solver. <i>Geophysics</i> , 2020, 85, R251-R262.	1.4	4
66	An inexact augmented Lagrangian method for nonlinear dispersion-curve inversion using Dix-type global linear approximation. <i>Geophysics</i> , 2020, 85, EN77-EN85.	1.4	4
67	Complex-Valued Imaging with Total Variation Regularization: An Application to Full-Waveform Inversion in Visco-acoustic Media. <i>SIAM Journal on Imaging Sciences</i> , 2021, 14, 58-91.	1.3	4
68	On efficient frequency-domain full-waveform inversion with extended search space. <i>Geophysics</i> , 2021, 86, R237-R252.	1.4	4
69	ADMM-based full-waveform inversion for microseismic imaging. <i>Geophysical Journal International</i> , 2021, 228, 259-274.	1.0	4
70	Randomized Source Sketching for Full Waveform Inversion. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-12.	2.7	4
71	Fast $\ell_1$ -regularized Radon transforms for seismic data processing. , 2017, 71, 83-94.		3
72	Inversion of seismic arrival times with erratic noise using robust Tikhonov-TV regularization. <i>Geophysical Journal International</i> , 2017, 211, 831-842.	1.0	3

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73	On the robustness of l1-regularized ADMM-based wavefield reconstruction inversion against compressed acquisition sampling. , 2019, , .		3
74	Fast Butterfly-based Sparse Hyperbolic Radon Transform - Application to Multiple Attenuation and Stacking. , 2015, , .		3
75	Seismic Random Noise Attenuation Based on Minimization of Higher Order Total Variation. , 2012, , .		2
76	Geological structure imaging from airborne electromagnetic and magnetic data, a case study in Kalat-e-Reshm area, Iran. Arabian Journal of Geosciences, 2015, 8, 425-435.	0.6	2
77	A data reconstruction inversion approach to extended FWI. , 2021, , .		2
78	ADMM-based full-waveform inversion with unknown source signatures. , 2021, , .		2
79	Simultaneous deghosting and wavelet estimation via blind deconvolution. Journal of Applied Geophysics, 2016, 135, 183-190.	0.9	1
80	Total-variation based velocity inversion with Bregmanized operator splitting algorithm. Journal of Applied Geophysics, 2018, 151, 1-10.	0.9	1
81	Regularized phase retrieval for seismic wavelet estimation and blind deconvolution. Journal of Applied Geophysics, 2020, 177, 104035.	0.9	1
82	Nonstationary deconvolutive Radon transform. Geophysics, 2021, 86, V329-V337.	1.4	1
83	Dual variable compression: Remedy the memory issue of full-space approaches for full-waveform inversion. , 2021, , .		1
84	High-resolution seismic deconvolution by using heavy-tailed priors. , 2012, , .		1
85	Wavefield inversion for microseismic imaging. , 2020, , .		1
86	Robust ADMM-based wavefield reconstruction inversion with phase retrieval. , 2019, , .		0