Rui Zhang

List of Publications by Year
in descending order

48 papers	885 citations	759233 12 h-index	526287 27 g-index
49 all docs	49 docs citations	49 times ranked	667 citing authors

#	Article	IF	Citations
1	Seismic sparse-layer reflectivity inversion using basis pursuit decomposition. Geophysics, 2011, 76, R147-R158.	2.6	253
2	Stochastic and deterministic seismic inversion methods for thin-bed resolution. Journal of Geophysics and Engineering, 2012, 9, 611-618.	1.4	151
3	A prestack basis pursuit seismic inversion. Geophysics, 2013, 78, R1-R11.	2.6	130
4	Multi-trace basis pursuit inversion with spatial regularization. Journal of Geophysics and Engineering, 2013, 10, 035012.	1.4	41
5	Time-lapse surface seismic inversion with thin bed resolution for monitoring CO2 sequestration: A case study from Cranfield, Mississippi. International Journal of Greenhouse Gas Control, 2013, 18, 430-438.	4.6	27
6	Time-lapse seismic data registration and inversion for CO2 sequestration study at Cranfield. Geophysics, 2013, 78, B329-B338.	2.6	22
7	Wavelet phase estimation using ant colony optimization algorithm. Journal of Applied Geophysics, 2015, 122, 159-166.	2.1	22
8	Time-variant wavelet extraction with a local-attribute-based time-frequency decomposition for seismic inversion. Interpretation, 2017, 5, SC9-SC16.	1.1	22
9	Multichannel impedance inversion for nonstationary seismic data based on the modified alternating direction method of multipliers. Geophysics, 2019, 84, A1-A6.	2.6	19
10	Simulations of CO2 injection into fractures and faults for improving their geophysical characterization at EGS sites. Geothermics, 2017, 69, 189-201.	3.4	17
11	Characterization of a fracture zone using seismic attributes at the In Salah CO2 storage project. Interpretation, 2015, 3, SM37-SM46.	1.1	14
12	Creating detailed subsurface models using predictive image-guided well-log interpolation. Interpretation, 2017, 5, T279-T285.	1.1	14
13	Dynamic Processes of CO 2 Storage in the Field: 1. Multiscale and Multipath Channeling of CO 2 Flow in the Hierarchical Fluvial Reservoir at Cranfield, Mississippi. Water Resources Research, 2020, 56, e2019EF001360.	4.2	13
14	The Seismic Response to Injected Carbon Dioxide: Comparing Observations to Estimates Based Upon Fluid Flow Modeling. Journal of Geophysical Research: Solid Earth, 2019, 124, 6880-6907.	3.4	12
15	A new stochastic inversion workflow for time-lapse data: hybrid starting model and double-difference inversion. Journal of Geophysics and Engineering, 2013, 10, .	1.4	10
16	Depth-domain seismic reflectivity inversion with compressed sensing technique. Interpretation, 2017, 5, T1-T9.	1.1	10
17	A depth variant seismic wavelet extraction method for inversion of poststack depth-domain seismic data. Geophysics, 2018, 83, R569-R579.	2.6	10
18	Time-lapse pre-stack seismic data registration and inversion for CO_2 sequestration study at Cranfield. Geophysical Prospecting, 2014, 62, 1028-1039.	1.9	9

#	Article	IF	Citations
19	Time-lapse pre-stack seismic inversion with thin bed resolution for CO2 sequestration from Cranfield, Mississippi. International Journal of Greenhouse Gas Control, 2014, 20, 223-229.	4.6	9
20	Machine learning for geophysical characterization of brittleness: Tuscaloosa Marine Shale case study. Interpretation, 2020, 8, T589-T597.	1.1	9
21	Up- and down-going wave multiples RTM imaging for VSP. , 2013, , .		8
22	Stress perturbations around the deep salt structure of Kuqa depression in the Tarim Basin. Interpretation, 2019, 7, T647-T656.	1.1	7
23	Study of seismic diffractions caused by a fracture zone at In Salah carbon dioxide storage project. International Journal of Greenhouse Gas Control, 2015, 42, 75-86.	4.6	5
24	Time-lapse image registration using the stratigraphic-coordinate system. , 2016, , .		5
25	Nonconvex optimization-based inverse spectral decomposition. Journal of Geophysics and Engineering, 2019, 16, 764-772.	1.4	5
26	Prestack seismic inversion with structural constraints. Interpretation, 2021, 9, T495-T506.	1.1	5
27	Footprint suppression with basis pursuit denoising. , 2009, , .		5
28	Application of predictive painting to well-log data interpolation and seismic inversion. , 2016, , .		3
29	Improving thin-bed resolution: Application of a sparse-layer inversion on 3D seismic observations from the In Salah carbon dioxide storage project. Interpretation, 2015, 3, SS65-SS71.	1.1	2
30	Seismic reflectivity attributes. , 2015, , .		2
31	Depth domain seismic reflectivity inversion with compressed sensing technique. , 2016, , .		2
32	Compressed sensing Inversion for thin-bed resolution in depth domain. , 2016, , .		2
33	Pressure transient analysis during CO2 push-pull tests into faults for EGS characterization. Geothermics, 2018, 75, 180-191.	3.4	2
34	Sparseâ€layer inversion with basis pursuit decomposition. , 2011, , .		1
35	A pre-stack basis pursuit seismic inversion. , 2012, , .		1
36	Multichannel impedance inversion for nonstationary seismic data based on modified alternating direction method of multipliers. , 2018, , .		1

#	Article	IF	Citations
37	Time-lapse seismic registration and inversion for CO2 sequestration study at Cranfield: Part II: Pre-stack analysis. , 2013, , .		1
38	Depth domain pre-stack seismic inversion with depth and angle variant wavelets. , 2019, , .		1
39	*CO*$_2$ pre‑injected reservoir characterization on Cranfield with basis pursuit inversion. , 2011, , .		0
40	Time-variant wavelet extraction with spectral decomposition for seismic inversion. , 2016, , .		0
41	Introduction to special section: Seismic time-frequency analysis. Interpretation, 2017, 5, SCi-SCi.	1.1	0
42	Simulations of carbon dioxide push-pull into a conjugate fault system modeled after Dixie Valley—Sensitivity analysis of significant parameters and uncertainty prediction by data-worth analysis. Geothermics, 2018, 74, 121-134.	3.4	0
43	Studies on primary lens for LED light source to enhance lateral emission intensity. , 2019, , .		0
44	Application of seismic methods for interface detection in the Akal block Jurassic section, Cantarell Field, Mexico. , 2009, , .		0
45	Monitoring CO$_2$ movement by interpreting time-lapse seismic data using rock physics modeling in the Tuscaloosa formation, Cranfield, MS Valley. , 2012, , .		0
46	Synchronous prestack inversion for automatic extracting the correlation of elastic parameters using block sparse Bayesian learning. , 2019, , .		0
47	A depth domain adaptive seismic wavelets extraction method. , 2019, , .		0
48	Near-salt stress-induced seismic velocity changes and seismic anisotropy and their impacts on salt imaging: A case study in the Kuqa depression, Tarim Basin, China. Interpretation, 2020, 8, T487-T499.	1.1	0