Irma ChacÃ³n

List of Publications by Year
in descending order

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58 papers	598 citations	759233 12 h-index	677142 22 g-index
62 all docs	62 docs citations	62 times ranked	434 citing authors

#	Article	IF	Citations
1	Urban Running Activity Detected Using a Seismic Sensor during COVID-19 Pandemic. Seismological Research Letters, 2022, 93, 181-192.	1.9	5
2	Fractured basement imaging using random-space-shift reverse time migration: A vertical seismic profile survey in the Bohai Bay Basin, China. Geophysics, 2022, 87, B1-B8.	2.6	1
3	Deep Learning-Based P- and S-Wave Separation for Multicomponent Vertical Seismic Profiling. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	5
4	In-situ physical properties of reclaimed lands in Singapore. The Leading Edge, 2022, 41, 296-303.	0.7	5
5	Upper Mantle Heterogeneity and Radial Anisotropy Beneath the Western Tibetan Plateau. Tectonics, 2021, 40, e2020TC006403.	2.8	6
6	3D Carbonate Digital Rock Reconstruction Using Progressive Growing GAN. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021687.	3.4	22
7	A Pareto Multiâ€Objective Optimization Approach for Anisotropic Shale Models. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021476.	3.4	8
8	Estimation of Rayleigh to Love waves ratio from ambient noise recorded by DAS. , 2021, , .		0
9	Building training data set for deep learning-based P- and S-wave separation: Field data case. , 2021, , .		0
10	Anonymous vehicle identification on seismic spectrograms. , 2021, , .		4
11	Urban activity monitoring using wireless geophones in Singapore. , 2021, , .		2
12	Soil/rock interface profiling using a new passive seismic survey: Autocorrelation seismic interferometry. Tunnelling and Underground Space Technology, 2021, 115, 104045.	6.2	7
13	Characterizing ambient seismic sources in an urban environment. , 2021, , .		1
14	Neural Networkâ€Based CO₂ Interpretation From 4D Sleipner Seismic Images. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022524.	3.4	8
15	Mitigating the cycle-skipping of full-waveform inversion by random gradient sampling. Geophysics, 2020, 85, R493-R507.	2.6	6
16	Least-squares extended reverse time migration with randomly sampled space shifts. Geophysics, 2020, 85, S357-S369.	2.6	6
17	Q-interface imaging using accumulative attenuation estimation. Geophysics, 2020, 85, R509-R523.	2.6	2
18	Urban Nearâ€Surface Seismic Monitoring Using Distributed Acoustic Sensing. Geophysical Research Letters, 2020, 47, e2019GL086115.	4.0	84

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19	Shale Anisotropy Model Building Based on Deep Neural Networks. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019042.	3.4	16
20	A modified seismic reflection approach for engineering geology investigation in fractured rock zones. Engineering Geology, 2020, 270, 105592.	6.3	7
21	Observation of guided and reflection P-waves in urban ambient noise cross-correlograms. , 2020, , .		4
22	On beamforming of ambient noise recorded by DAS. , 2020, , .		3
23	The seismic aircraft footprint: Probing near surface and tracking aircraft. , 2020, , .		5
24	Multi-task learning based P/S wave separation and reverse time migration for VSP. , 2020, , .		5
25	A walkaway VSP survey for fractured-basement imaging using RSS-RTM. , 2020, , .		2
26	Bedrock detection based on seismic interferometry using ambient noise in Singapore. , 2020, , .		3
27	Upper Mantle Deformation of the Terror Rift and Northern Transantarctic Mountains in Antarctica: Insight From P Wave Anisotropic Tomography. Geophysical Research Letters, 2020, 47, e2019GL086511.	4.0	2
28	The application of least-squares extended reverse-time migration to vertical seismic profiling data. , 2020, , .		0
29	The behavior of least-squares extended reverse time migration for vertical seismic profiling data. , 2020, , .		0
30	Dependency of flow and transport properties on aperture distributions and compression states. Geophysical Prospecting, 2019, 67, 900-912.	1.9	7
31	Shale Anisotropy Estimation From Logs in Vertical Wells. Journal of Geophysical Research: Solid Earth, 2019, 124, 6602-6611.	3.4	14
32	Least-squares reverse time migration in the presence of velocity errors. Geophysics, 2019, 84, S567-S580.	2.6	21
33	Geotechnical site investigation for tunneling and underground works by advanced passive surface wave survey. Tunnelling and Underground Space Technology, 2019, 90, 319-329.	6.2	16
34	Full-waveform inversion with randomized space shift. The Leading Edge, 2019, 38, 197-203.	0.7	1
35	Near-surface site investigation by seismic interferometry using urban traffic noise in Singapore. Geophysics, 2019, 84, B169-B180.	2.6	55
36	Determination of formation shear attenuation from dipole sonic log data. Geophysics, 2019, 84, D73-D79.	2.6	5

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37	Joint least-squares reverse time migration of primary and prismatic waves. Geophysics, 2019, 84, S29-S40.	2.6	16
38	Source-free converted-wave reverse time migration: Formulation and limitations. Geophysics, 2019, 84, S17-S27.	2.6	4
39	Deep bedrock detection based on ambient noise recorded by a short geophone array: A Singapore case study. , 2019, , .		3
40	Least-squares reverse time migration with random space shift. , 2019, , .		2
41	Extracting subsurface information based on extremely short period of DAS recordings. , 2019, , .		7
42	Simulating kinematics of P- and S-wave scattering using scalar wave equations. , 2019, , .		1
43	Near-surface bedrock profiling using urban ambient noise: An autocorrelation approach. , 2019, , .		3
44	Improving seismic Q_P estimation using rock-physics constraints. Geophysics, 2018, 83, MR187-MR198.	2.6	7
45	Formation of Rifts in Central Tibet: Insight From P Wave Radial Anisotropy. Journal of Geophysical Research: Solid Earth, 2018, 123, 8827-8841.	3.4	10
46	Elastic reverse time migration using acoustic propagators. Geophysics, 2018, 83, S399-S408.	2.6	30
47	Optimized passive seismic interferometry for bedrock detection: A Singapore case study. , 2018, , .		7
48	Multicomponent and source-free converted-wave reverse time migration for VSP. , 2018, , .		2
49	Near-surface monitoring enabled by distributed acoustic sensing: An example of the Stanford Array Data. , 2018, , .		6
50	Q-interface imaging based on data-domain attenuation estimation. , 2018, , .		1
51	Full-waveform inversion based on gradient-sampling algorithm with randomized space shift. , 2018, , .		0
52	Least-squares reverse time migration with velocity errors. , 2018, , .		2
53	Inferring static-elastic properties of fractures from flow measurements. , 2018, , .		0
54	Toward a closed loop from seismic imaging to earth-model building. The Leading Edge, 2016, 35, 135-139.	0.7	3

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55	Full-waveform inversion with extrapolated low-frequency data. Geophysics, 2016, 81, R339-R348.	2.6	104
56	Equivalent accuracy at a fraction of the cost: Overcoming temporal dispersion. Geophysics, 2016, 81, T189-T196.	2.6	18
57	A short note on phase and amplitude tracking for seismic event separation. , 2015, , .		0
58	Phase and amplitude tracking for seismic event separation. Geophysics, 2015, 80, WD59-WD72.	2.6	24