

# Irma ChacÃ³n

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Full-waveform inversion with extrapolated low-frequency data. <i>Geophysics</i> , 2016, 81, R339-R348.	2.6	104
2	Urban Near-Surface Seismic Monitoring Using Distributed Acoustic Sensing. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086115.	4.0	84
3	Near-surface site investigation by seismic interferometry using urban traffic noise in Singapore. <i>Geophysics</i> , 2019, 84, B169-B180.	2.6	55
4	Elastic reverse time migration using acoustic propagators. <i>Geophysics</i> , 2018, 83, S399-S408.	2.6	30
5	Phase and amplitude tracking for seismic event separation. <i>Geophysics</i> , 2015, 80, WD59-WD72.	2.6	24
6	3D Carbonate Digital Rock Reconstruction Using Progressive Growing GAN. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021687.	3.4	22
7	Least-squares reverse time migration in the presence of velocity errors. <i>Geophysics</i> , 2019, 84, S567-S580.	2.6	21
8	Equivalent accuracy at a fraction of the cost: Overcoming temporal dispersion. <i>Geophysics</i> , 2016, 81, T189-T196.	2.6	18
9	Geotechnical site investigation for tunneling and underground works by advanced passive surface wave survey. <i>Tunnelling and Underground Space Technology</i> , 2019, 90, 319-329.	6.2	16
10	Joint least-squares reverse time migration of primary and prismatic waves. <i>Geophysics</i> , 2019, 84, S29-S40.	2.6	16
11	Shale Anisotropy Model Building Based on Deep Neural Networks. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB019042.	3.4	16
12	Shale Anisotropy Estimation From Logs in Vertical Wells. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 6602-6611.	3.4	14
13	Formation of Rifts in Central Tibet: Insight From $P$ Wave Radial Anisotropy. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 8827-8841.	3.4	10
14	A Pareto Multi-Objective Optimization Approach for Anisotropic Shale Models. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021476.	3.4	8
15	Neural Network-Based $CO_2$ Interpretation From 4D Slepner Seismic Images. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022524.	3.4	8
16	Improving seismic $Q$ estimation using rock-physics constraints. <i>Geophysics</i> , 2018, 83, MR187-MR198.	2.6	7
17	Dependency of flow and transport properties on aperture distributions and compression states. <i>Geophysical Prospecting</i> , 2019, 67, 900-912.	1.9	7
18	A modified seismic reflection approach for engineering geology investigation in fractured rock zones. <i>Engineering Geology</i> , 2020, 270, 105592.	6.3	7

#	ARTICLE	IF	CITATIONS
19	Soil/rock interface profiling using a new passive seismic survey: Autocorrelation seismic interferometry. Tunnelling and Underground Space Technology, 2021, 115, 104045.	6.2	7
20	Optimized passive seismic interferometry for bedrock detection: A Singapore case study. , 2018, , .		7
21	Extracting subsurface information based on extremely short period of DAS recordings. , 2019, , .		7
22	Mitigating the cycle-skipping of full-waveform inversion by random gradient sampling. Geophysics, 2020, 85, R493-R507.	2.6	6
23	Least-squares extended reverse time migration with randomly sampled space shifts. Geophysics, 2020, 85, S357-S369.	2.6	6
24	Upper Mantle Heterogeneity and Radial Anisotropy Beneath the Western Tibetan Plateau. Tectonics, 2021, 40, e2020TC006403.	2.8	6
25	Near-surface monitoring enabled by distributed acoustic sensing: An example of the Stanford Array Data. , 2018, , .		6
26	Determination of formation shear attenuation from dipole sonic log data. Geophysics, 2019, 84, D73-D79.	2.6	5
27	Urban Running Activity Detected Using a Seismic Sensor during COVID-19 Pandemic. Seismological Research Letters, 2022, 93, 181-192.	1.9	5
28	The seismic aircraft footprint: Probing near surface and tracking aircraft. , 2020, , .		5
29	Multi-task learning based P/S wave separation and reverse time migration for VSP. , 2020, , .		5
30	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
31	In-situ physical properties of reclaimed lands in Singapore. The Leading Edge, 2022, 41, 296-303.	0.7	5
32	Source-free converted-wave reverse time migration: Formulation and limitations. Geophysics, 2019, 84, S17-S27.	2.6	4
33	Anonymous vehicle identification on seismic spectrograms. , 2021, , .		4
34	Observation of guided and reflection P-waves in urban ambient noise cross-correlograms. , 2020, , .		4
35	Toward a closed loop from seismic imaging to earth-model building. The Leading Edge, 2016, 35, 135-139.	0.7	3
36	Deep bedrock detection based on ambient noise recorded by a short geophone array: A Singapore case study. , 2019, , .		3

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37	On beamforming of ambient noise recorded by DAS. , 2020, , .		3
38	Bedrock detection based on seismic interferometry using ambient noise in Singapore. , 2020, , .		3
39	Near-surface bedrock profiling using urban ambient noise: An autocorrelation approach. , 2019, , .		3
40	Q-interface imaging using accumulative attenuation estimation. Geophysics, 2020, 85, R509-R523.	2.6	2
41	Urban activity monitoring using wireless geophones in Singapore. , 2021, , .		2
42	Multicomponent and source-free converted-wave reverse time migration for VSP. , 2018, , .		2
43	Least-squares reverse time migration with random space shift. , 2019, , .		2
44	A walkaway VSP survey for fractured-basement imaging using RSS-RTM. , 2020, , .		2
45	Least-squares reverse time migration with velocity errors. , 2018, , .		2
46	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
47	Full-waveform inversion with randomized space shift. The Leading Edge, 2019, 38, 197-203.	0.7	1
48	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
49	Characterizing ambient seismic sources in an urban environment. , 2021, , .		1
50	Q-interface imaging based on data-domain attenuation estimation. , 2018, , .		1
51	Simulating kinematics of P- and S-wave scattering using scalar wave equations. , 2019, , .		1
52	A short note on phase and amplitude tracking for seismic event separation. , 2015, , .		0
53	Estimation of Rayleigh to Love waves ratio from ambient noise recorded by DAS. , 2021, , .		0
54	Building training data set for deep learning-based P- and S-wave separation: Field data case. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
55	Full-waveform inversion based on gradient-sampling algorithm with randomized space shift. , 2018, , .		0
56	Inferring static-elastic properties of fractures from flow measurements. , 2018, , .		0
57	The application of least-squares extended reverse-time migration to vertical seismic profiling data. , 2020, , .		0
58	The behavior of least-squares extended reverse time migration for vertical seismic profiling data. , 2020, , .		0