

C S Larmat

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

613
citations

687363

13
h-index

580821

25
g-index

46
all docs

46
docs citations

46
times ranked

733
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-reversal imaging of seismic sources and application to the great Sumatra earthquake. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	156
2	Time-reversal methods in geophysics. <i>Physics Today</i> , 2010, 63, 31-35.	0.3	71
3	Time reversal location of glacial earthquakes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	63
4	Tremor source location using time reversal: Selecting the appropriate imaging field. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	41
5	Exploring the potentials and limitations of the time-reversal imaging of finite seismic sources. <i>Solid Earth</i> , 2011, 2, 95-105.	2.8	34
6	In situ characterization of shallow elastic nonlinear parameters with Dynamic Acoustoelastic Testing. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 6907-6923.	3.4	30
7	A New Crater Near InSight: Implications for Seismic Impact Detectability on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006382.	3.6	24
8	On the validation of seismic imaging methods: Finite frequency or ray theory?. <i>Geophysical Research Letters</i> , 2015, 42, 323-330.	4.0	23
9	A silica long base tiltmeter with high stability and resolution. <i>Review of Scientific Instruments</i> , 2008, 79, 034502.	1.3	22
10	Simulations of Seismic Wave Propagation on Mars. <i>Space Science Reviews</i> , 2017, 211, 571-594.	8.1	19
11	A new coupled spectral element and modal solution method for global seismology: A first application to the scattering induced by a plume-like anomaly. <i>Geophysical Research Letters</i> , 2002, 29, 32-1-32-4.	4.0	17
12	Numerical assessment of the effects of topography and crustal thickness on martian seismograms using a coupled modal solutionâ€“spectral element method. <i>Icarus</i> , 2008, 196, 78-89.	2.5	16
13	Double-difference traveltimes tomography with edge-preserving regularization and a priori interfaces. <i>Geophysical Journal International</i> , 2015, 201, 574-594.	2.4	15
14	Energy current imaging method for time reversal in elastic media. <i>Applied Physics Letters</i> , 2009, 95, 021907.	3.3	12
15	Time-reversal method and cross-correlation techniques by normal mode theory: a three-point problem. <i>Geophysical Journal International</i> , 2012, 191, 637-652.	2.4	12
16	Enhanced Global Seismic Resolution Using Transoceanic SMART Cables. <i>Seismological Research Letters</i> , 2018, 89, 77-85.	1.9	10
17	Seismic constraints from a Mars impact experiment using InSight and Perseverance. <i>Nature Astronomy</i> , 2022, 6, 59-64.	10.1	9
18	Benchmarking Numerical Methods for Impact and Cratering Applications. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2504.	2.5	8

#	ARTICLE	IF	CITATIONS
19	Lagrangian-based Simulations of Hypervelocity Impact Experiments on Mars Regolith Proxy. Geophysical Research Letters, 2020, 47, e2020GL087393.	4.0	7
20	Apparent Explosion Moments from <i>Rg</i> Waves Recorded on SPE. Bulletin of the Seismological Society of America, 2017, 107, 43-50.	2.3	6
21	Inversion of Meteor Rayleigh Waves on Earth and Modeling of Air Coupled Rayleigh Waves on Mars. Space Science Reviews, 2018, 214, 1.	8.1	5
22	Listening for the Landing: Seismic Detections of Perseverance's Arrival at Mars With InSight. Earth and Space Science, 2021, 8, e2020EA001585.	2.6	5
23	Time Reversal in Seismology. Encyclopedia of Earth Sciences Series, 2011, , 1449-1452.	0.1	2
24	Questions to Heaven. Astronomy and Geophysics, 2021, 62, 6.22-6.25.	0.2	2
25	Joining statistics and geophysics for assessment and uncertainty quantification of three-dimensional seismic Earth models. Statistical Analysis and Data Mining, 2017, 10, 277-289.	2.8	1
26	Time-Reversal in Seismology. Encyclopedia of Earth Sciences Series, 2021, , 1790-1794.	0.1	0
27	The trampoline effect: observations and modeling. Proceedings of Meetings on Acoustics, 2009, , .	0.3	0
28	Advances in Modelling and Inversion of Seismic Wave Propagation. , 2010, , 293-306.		0
29	Time-Reversal in Seismology. Encyclopedia of Earth Sciences Series, 2019, , 1-5.	0.1	0