

Martin Schimmel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8426647/publications.pdf>

Version: 2024-02-01

97
papers

4,364
citations

117625

34
h-index

114465

63
g-index

119
all docs

119
docs citations

119
times ranked

2973
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	6.3	7
2	Imaging the crust and uppermost mantle structure of Portugal (West Iberia) with seismic ambient noise. <i>Geophysical Journal International</i> , 2022, 230, 1106-1120.	2.4	6
3	Towards a Digital Twin of the Earth System: Geo-Soft-CoRe, a Geoscientific Software & Code Repository. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	1
4	The Far Side of Mars: Two Distant Marsquakes Detected by InSight. <i>The Seismic Record</i> , 2022, 2, 88-99.	3.1	29
5	Evidence for crustal seismic anisotropy at the InSight lander site. <i>Earth and Planetary Science Letters</i> , 2022, 593, 117654.	4.4	21
6	Crustal and uppermost mantle structure of Cape Verde from ambient noise tomography. <i>Geophysical Journal International</i> , 2022, 231, 1421-1433.	2.4	5
7	Companion guide to the marsquake catalog from InSight, Sols 0-478: Data content and non-seismic events. <i>Physics of the Earth and Planetary Interiors</i> , 2021, 310, 106597.	1.9	64
8	The Polarization of Ambient Noise on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006545.	3.6	33
9	Autocorrelation of the Ground Vibrations Recorded by the SEIS InSight Seismometer on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006498.	3.6	34
10	Seismic Noise Autocorrelations on Mars. <i>Earth and Space Science</i> , 2021, 8, e2021EA001755.	2.6	31
11	Thickness and structure of the martian crust from InSight seismic data. <i>Science</i> , 2021, 373, 438-443.	12.6	140
12	Seismic detection of the martian core. <i>Science</i> , 2021, 373, 443-448.	12.6	169
13	Urban seismic monitoring in Brasília, Brazil. <i>PLoS ONE</i> , 2021, 16, e0253610.	2.5	5
14	Potential Pitfalls in the Analysis and Structural Interpretation of Seismic Data from the Mars InSight Mission. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2982-3002.	2.3	42
15	Four decades of geophysical research on Iberia and adjacent margins. <i>Earth-Science Reviews</i> , 2021, 222, 103841.	9.1	8
16	Resonances and Lander Modes Observed by InSight on Mars (1-9 Hz). <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2924-2950.	2.3	30
17	Uppermost crustal structure regulates the flow of the Greenland Ice Sheet. <i>Nature Communications</i> , 2021, 12, 7307.	12.8	5
18	Crustal Velocity Anomalies in Costa Rica from Ambient Noise Tomography. <i>Pure and Applied Geophysics</i> , 2020, 177, 941-960.	1.9	10

#	ARTICLE	IF	CITATIONS
19	Detection, Analysis, and Removal of Glitches From InSight's Seismic Data From Mars. <i>Earth and Space Science</i> , 2020, 7, e2020EA001317.	2.6	75
20	MSS/1: Single-Station and Single-Event Marsquake Inversion. <i>Earth and Space Science</i> , 2020, 7, e2020EA001118.	2.6	16
21	Seismometers Within Cities: A Tool to Connect Earth Sciences and Society. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	24
22	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. <i>Nature Geoscience</i> , 2020, 13, 213-220.	12.9	207
23	The seismicity of Mars. <i>Nature Geoscience</i> , 2020, 13, 205-212.	12.9	194
24	What can seismic noise tell us about the Alpine reactivation of the Iberian Massif? An example in the Iberian Central System. <i>Solid Earth</i> , 2020, 11, 2499-2513.	2.8	8
25	Characterization of Microseismic Noise in Cape Verde. <i>Bulletin of the Seismological Society of America</i> , 2019, 109, 1099-1109.	2.3	8
26	Lithospheric image of the Central Iberian Zone (Iberian Massif) using global-phase seismic interferometry. <i>Solid Earth</i> , 2019, 10, 1937-1950.	2.8	17
27	Mars™ Background Free Oscillations. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	7
28	Short- and Long-Term Variations in the Reykjanes Geothermal Reservoir From Seismic Noise Interferometry. <i>Geophysical Research Letters</i> , 2019, 46, 5788-5798.	4.0	27
29	Crustal structure beneath Tierra del Fuego, Argentina, inferred from seismic P-wave receiver functions and ambient noise autocorrelations. <i>Tectonophysics</i> , 2019, 751, 41-53.	2.2	12
30	Constraining S -wave velocity using Rayleigh wave ellipticity from polarization analysis of seismic noise. <i>Geophysical Journal International</i> , 2019, 216, 1817-1830.	2.4	16
31	Blind source separation of temporally independent microseisms. <i>Geophysical Journal International</i> , 2019, 216, 1260-1275.	2.4	4
32	Upper and Middle Crustal Velocity Structure of the Colombian Andes From Ambient Noise Tomography: Investigating Subduction-Related Magmatism in the Overriding Plate. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 1459-1485.	3.4	29
33	Retrieval of Body-Wave Reflections Using Ambient Noise Interferometry Using a Small-Scale Experiment. <i>Pure and Applied Geophysics</i> , 2018, 175, 2009-2022.	1.9	11
34	Reverse time migration using phase crosscorrelation. <i>Geophysics</i> , 2018, 83, S345-S354.	2.6	7
35	Rayleigh waves from correlation of seismic noise in Great Island of Tierra del Fuego, Argentina: Constraints on upper crustal structure. <i>Geodesy and Geodynamics</i> , 2018, 9, 2-12.	2.2	3
36	Low-Frequency Ambient Noise Autocorrelations: Waveforms and Normal Modes. <i>Seismological Research Letters</i> , 2018, 89, 1488-1496.	1.9	26

#	ARTICLE	IF	CITATIONS
37	Detecting and Locating Precursory Signals During the 2011 El Hierro, Canary Islands, Submarine Eruption. <i>Geophysical Research Letters</i> , 2018, 45, 10,288.	4.0	29
38	Mapping the Basement of the Ebro Basin in Spain With Seismic Ambient Noise Autocorrelations. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 5052-5067.	3.4	43
39	Measuring Group Velocity in Seismic Noise Correlation Studies Based on Phase Coherence and Resampling Strategies. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 1928-1935.	6.3	18
40	Ambient seismic noise tomography of SW Iberia integrating seafloor- and land-based data. <i>Tectonophysics</i> , 2017, 700-701, 131-149.	2.2	16
41	Microseismic noise in the Saint Peter and Saint Paul Archipelago, equatorial Atlantic. <i>Journal of South American Earth Sciences</i> , 2017, 80, 304-315.	1.4	3
42	The Effect of Water Column Resonance on the Spectra of Secondary Microseism <i>P</i> Waves. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8121-8142.	3.4	13
43	Extracting surface waves, hum and normal modes: time-scale phase-weighted stack and beyond. <i>Geophysical Journal International</i> , 2017, 211, 30-44.	2.4	44
44	Reflection response of the Parna�ba Basin from autocorrelation of seismic ambient noise recordings. , 2017, , .		0
45	Enhancing stratigraphic and structural features in RTM-images employing phase crosscorrelation. , 2016, , .		0
46	Causes of intraplate seismicity in central Brazil from travel time seismic tomography. <i>Tectonophysics</i> , 2016, 680, 1-7.	2.2	17
47	Ray-theoretical modeling of secondary microseism<i>P</i>waves. <i>Geophysical Journal International</i> , 2016, 206, 1730-1739.	2.4	44
48	Statistical redundancy of instantaneous phases: theory and application to the seismic ambient wavefield. <i>Geophysical Journal International</i> , 2016, 204, 1159-1163.	2.4	8
49	The tailings dam failure of 5 November 2015 in SE Brazil and its preceding seismic sequence. <i>Geophysical Research Letters</i> , 2016, 43, 4929-4936.	4.0	58
50	Global tomography using seismic hum. <i>Geophysical Journal International</i> , 2016, 204, 1222-1236.	2.4	70
51	Detection of Subtle Hydromechanical Medium Changes Caused By a Small-Magnitude Earthquake Swarm in NE Brazil. <i>Pure and Applied Geophysics</i> , 2016, 173, 1097-1113.	1.9	22
52	Observation of deep water microseisms in the North Atlantic Ocean using tide modulations. <i>Geophysical Research Letters</i> , 2015, 42, 316-322.	4.0	28
53	Sources of secondary microseisms in the Indian Ocean. <i>Geophysical Journal International</i> , 2015, 202, 1180-1189.	2.4	25
54	The upper-mantle transition zone beneath the Ibero-Maghrebian region as seen by teleseismic Pds phases. <i>Tectonophysics</i> , 2015, 663, 212-224.	2.2	16

#	ARTICLE	IF	CITATIONS
55	Rayleigh-Wave, Group-Velocity Tomography of the Borborema Province, NE Brazil, from Ambient Seismic Noise. Pure and Applied Geophysics, 2015, 172, 1429-1449.	1.9	25
56	How much averaging is necessary to cancel out cross-terms in noise correlation studies?. Geophysical Journal International, 2015, 203, 1096-1100.	2.4	12
57	Modelling the ocean site effect on seismic noise body waves. Geophysical Journal International, 2014, 197, 1096-1106.	2.4	74
58	Detection of microseismic compressional (<i>P</i>) body waves aided by numerical modeling of oceanic noise sources. Journal of Geophysical Research: Solid Earth, 2013, 118, 4312-4324.	3.4	43
59	Modelling secondary microseismic noise by normal mode summation. Geophysical Journal International, 2013, 193, 1732-1745.	2.4	86
60	Studying the 410-km and 660-km discontinuities beneath Spain and Morocco through detection of P-to-s conversions. Geophysical Journal International, 2013, 194, 920-935.	2.4	10
61	Frequency-dependent noise sources in the North Atlantic Ocean. Geochemistry, Geophysics, Geosystems, 2013, 14, 5341-5353.	2.5	25
62	Monitoring medium changes in an intraplate setting with coda wave interferometry. , 2013, , .		0
63	ReconstruÃ§Ã£o do sinal sÃsmico no Nordeste do Brasil a partir de correlaÃ§Ãµes cruzadas do ruÃdo sÃsmico de ambiente. , 2013, , .		0
64	Window length selection for optimum slowness resolution of the local-slant-stack transform. Geophysics, 2012, 77, V31-V40.	2.6	12
65	Modelling long-term seismic noise in various environments. Geophysical Journal International, 2012, 191, 707-722.	2.4	104
66	The structure and kinematics of the central Taiwan mountain belt derived from geological and seismicity data. Tectonics, 2012, 31, .	2.8	43
67	How moderate sea states can generate loud seismic noise in the deep ocean. Geophysical Research Letters, 2012, 39, .	4.0	57
68	Polarized Earth's ambient microseismic noise. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	88
69	Ocean wave sources of seismic noise. Journal of Geophysical Research, 2011, 116, .	3.3	246
70	Upper-mantle seismic structure beneath SE and Central Brazil from P- and S-wave regional traveltime tomography. Geophysical Journal International, 2011, 184, 268-286.	2.4	57
71	Using instantaneous phase coherence for signal extraction from ambient noise data at a local to a global scale. Geophysical Journal International, 2011, 184, 494-506.	2.4	194
72	Reconstruction of annual winter rainfall since A.D.1579 in central-eastern Spain based on calcite laminated sediment from Lake La Cruz. Climatic Change, 2011, 107, 343-361.	3.6	26

#	ARTICLE	IF	CITATIONS
73	Local Time Slowness Adaptive Filter and Optimal Window Strategies. , 2010, , .		0
74	Global climate imprint on seismic noise. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	112
75	The \$\$\$-Transform From a Wavelet Point of View. <i>IEEE Transactions on Signal Processing</i> , 2008, 56, 2771-2780.	5.3	146
76	On the TT-Transform and Its Diagonal Elements. <i>IEEE Transactions on Signal Processing</i> , 2008, 56, 5709-5713.	5.3	27
77	The deep seismic reflection MARCONI-3 profile: Role of extensional Mesozoic structure during the Pyrenean contractional deformation at the eastern part of the Bay of Biscay. <i>Marine and Petroleum Geology</i> , 2008, 25, 714-730.	3.3	74
78	Authors' Reply to Comments on "The Inverse S-Transform in Filters With Time-Frequency Localization" <i>IEEE Transactions on Signal Processing</i> , 2007, 55, 5120-5121.	5.3	11
79	The S-Transform and Its Inverses: Side Effects of Discretizing and Filtering. <i>IEEE Transactions on Signal Processing</i> , 2007, 55, 4928-4937.	5.3	74
80	Frequency-dependent phase coherence for noise suppression in seismic array data. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	98
81	An alternative inverse S-transform for filters with time-frequency localization. <i>Proc Int Symp Image Signal Process Anal</i> , 2005, , .	0.0	5
82	The inverse S-transform in filters with time-frequency localization. <i>IEEE Transactions on Signal Processing</i> , 2005, 53, 4417-4422.	5.3	102
83	Intraplate seismicity in SE Brazil: stress concentration in lithospheric thin spots. <i>Geophysical Journal International</i> , 2004, 159, 390-399.	2.4	78
84	Degree of Polarization Filter for Frequency-Dependent Signal Enhancement Through Noise Suppression. <i>Bulletin of the Seismological Society of America</i> , 2004, 94, 1016-1035.	2.3	44
85	The use of instantaneous polarization attributes for seismic signal detection and image enhancement. <i>Geophysical Journal International</i> , 2003, 155, 653-668.	2.4	56
86	Seismic velocity anomalies beneath SE Brazil from PandSwave travel time inversions. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	54
87	Circadian and Ultradian Rhythmicities in Very Premature Neonates Maintained in Incubators. <i>Biological Rhythm Research</i> , 2002, 33, 83-112.	0.9	5
88	The Issue of Significant Features in Random Noise. <i>Biological Rhythm Research</i> , 2001, 32, 355-360.	0.9	3
89	Rescuing Rhythms from Noise: A New Method of Analysis. <i>Biological Rhythm Research</i> , 2001, 32, 271-284.	0.9	5
90	Emphasizing Difficulties in the Detection of Rhythms with Lomb-Scargle Periodograms. <i>Biological Rhythm Research</i> , 2001, 32, 341-346.	0.9	33

#	ARTICLE	IF	CITATIONS
91	Phase cross-correlations: Design, comparisons, and applications. Bulletin of the Seismological Society of America, 1999, 89, 1366-1378.	2.3	97
92	Noise reduction and detection of weak, coherent signals through phase-weighted stacks. Geophysical Journal International, 1997, 130, 497-505.	2.4	408
93	Steeply reflected ScSH precursors from the D ³ region. Journal of Geophysical Research, 1996, 101, 16077-16087.	3.3	12
94	Upper mantle structure of the Borborema Province, NE Brazil, from P-wave tomography: Implications for rheology and volcanism. Geophysical Journal International, 0, , .	2.4	6
95	Preparing for InSight: Evaluation of the Blind Test for Martian Seismicity. Seismological Research Letters, 0, , .	1.9	5
96	Towards the Processing of Large Data Volumes with Phase Cross-Correlation. Seismological Research Letters, 0, , .	1.9	14
97	Resultados preliminares do estudo da metodologia de tomografia sísmica de ruído ambiental aplicada à escala rasa. , 0, , .		0