Rudolf Widmer-Schnidrig

List of Publications by Year
in descending order

33 papers	1,511 citations	394421 19 h-index	454955 30 g-index

37 all docs	37 docs citations	37 times ranked	1146 citing authors

#	Article	IF	Citations
1	SEIS: Insightâ€™s Seismic Experiment for Internal Structure of Mars. Space Science Reviews, 2019, 215, 12.	8.1	238
2	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. Nature Geoscience, 2020, 13, 213-220.	12.9	207
3	The atmosphere of Mars as observed by InSight. Nature Geoscience, 2020, 13, 190-198.	12.9	161
4	Upper mantle structure of Mars from InSight seismic data. Science, 2021, 373, 434-438.	12.6	105
5	Atmospheric Science with InSight. Space Science Reviews, 2018, 214, 1.	8.1	88
6	What Can Superconducting Gravimeters Contribute to Normal-Mode Seismology?. Bulletin of the Seismological Society of America, 2003, 93, 1370-1380.	2.3	81
7	Detection, Analysis, and Removal of Glitches From InSight's Seismic Data From Mars. Earth and Space Science, 2020, 7, e2020EA001317.	2.6	75
8	Observation of Coriolis coupled modes below 1â€ƒmHz. Geophysical Journal International, 2000, 143, 113-118.	2.4	49
9	The horizontal hum of the Earth: A global background of spheroidal and toroidal modes. Geophysical Research Letters, 2008, 35, .	4.0	49
10	Subsurface Structure at the InSight Landing Site From Compliance Measurements by Seismic and Meteorological Experiments. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006387.	3.6	44
11	Potential Pitfalls in the Analysis and Structural Interpretation of Seismic Data from the Mars InSight Mission. Bulletin of the Seismological Society of America, 2021, 111, 2982-3002.	2.3	42
12	An optical fiber infrasound sensor: A new lower limit on atmospheric pressure noise between 1 and 10 Hz. Journal of the Acoustical Society of America, 2003, 113, 2474-2479.	1.1	35
13	Magnetic field background variations can limit the resolution of seismic broad-band sensors. Geophysical Journal International, 2010, 183, 303-312.	2.4	33
14	Pressure Effects on the SEISâ€InSight Instrument, Improvement of Seismic Records, and Characterization of Long Period Atmospheric Waves From Ground Displacements. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006278.	3.6	31
15	Monitoring of Dust Devil Tracks Around the InSight Landing Site, Mars, and Comparison With In Situ Atmospheric Data. Geophysical Research Letters, 2020, 47, e2020GL087234.	4.0	30
16	Signature of 3-D density structure in spectra of the spheroidal free oscillation 0S2. Geophysical Journal International, 2013, 192, 285-294.	2.4	25
17	High-quality lowest-frequency normal mode strain observations at the Black Forest Observatory (SW-Germany) and comparison with horizontal broad-band seismometer data and synthetics. Geophysical Journal International, 2015, 203, 1786-1803.	2.4	25
18	Improvements in seismic resolution and current limitations in the Global Seismographic Network. Geophysical Journal International, 2020, 220, 508-521.	2.4	25

#	Article	IF	Citations
19	Spatiotemporal features of the Earth's background oscillations observed in central Europe. Geophysical Research Letters, 2006, 33, .	4.0	22
20	Perspectives for Ring Laser Gyroscopes in Low-Frequency Seismology. Bulletin of the Seismological Society of America, 2009, 99, 1199-1206.	2.3	21
21	Theory and Observations: Normal Mode and Surface Wave Observations. , 2015, , 117-167.		18
22	Constraining Martian Regolith and Vortex Parameters From Combined Seismic and Meteorological Measurements. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006410.	3.6	16
23	Anatomy of Continuous Mars SEIS and Pressure Data from Unsupervised Learning. Bulletin of the Seismological Society of America, 2021, 111, 2964-2981.	2.3	14
24	Application of regionalized multiplet stripping to retrieval of aspherical structure constraints. Geophysical Journal International, 2002, 148, 201-213.	2.4	13
25	Performance of an Optical Seismometer from 1 ÂHz to 10 Hz. Bulletin of the Seismological Society of America, 2014, 104, 2422-2429.	2.3	13
26	Geophysical Observations of Phobos Transits by InSight. Geophysical Research Letters, 2020, 47, e2020GL089099.	4.0	10
27	Gravimeter Search for Compact Dark Matter Objects Moving in the Earth. Physical Review Letters, 2020, 124, 051102.	7.8	10
28	Challenges and Perspectives for Lowering the Vertical-Component Long-Period Detection Level. Seismological Research Letters, 2021, 92, 2498-2512.	1.9	9
29	Theory and Observations â€“ Normal Modes and Surface Wave Measurements. , 2007, , 67-125.		7
30	Excitation of long-period Rayleigh waves by large storms over the North Atlantic Ocean. Geophysical Journal International, 2010, 183, 330-338.	2.4	5
31	Modeling tilt noise caused by atmospheric processes at long periods for several horizontal seismometers at BFO - a reprise. Geophysical Journal International, 0, , .	2.4	4
32	Application of regionalized multiplet stripping to retrieval of aspherical structure constraints. Geophysical Journal International, 2002, 148, 201-213.	2.4	3
33	Free oscillations illuminate the mantle. Nature, 1999, 398, 292-293.	27.8	2