Brigitte Knapmeyer-Endrun

List of Publications by Year
in descending order

59 papers	2,807 citations	159525 30 h-index	175177 52 g-index
64 all docs	64 docs citations	64 times ranked	1782 citing authors

#	Article	IF	Citations
1	Initial results from the InSight mission on Mars. Nature Geoscience, 2020, 13, 183-189.	5.4	274
2	SEIS: Insightâ€™s Seismic Experiment for Internal Structure of Mars. Space Science Reviews, 2019, 215, 12.	3.7	238
3	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. Nature Geoscience, 2020, 13, 213-220.	5.4	207
4	The seismicity of Mars. Nature Geoscience, 2020, 13, 205-212.	5.4	194
5	Thickness and structure of the martian crust from InSight seismic data. Science, 2021, 373, 438-443.	6.0	140
6	Complex layered deformation within the Aegean crust and mantle revealed by seismic anisotropy. Nature Geoscience, 2011, 4, 203-207.	5.4	102
7	Ground structure imaging by inversions of Rayleigh wave ellipticity: sensitivity analysis and application to European strong-motion sites. Geophysical Journal International, 2013, 192, 207-229.	1.0	94
8	Seismicity of the Hellenic subduction zone in the area of western and central Crete observed by temporary local seismic networks. Tectonophysics, 2004, 383, 149-169.	0.9	89
9	Planned Products of the Mars Structure Service for the InSight Mission to Mars. Space Science Reviews, 2017, 211, 611-650.	3.7	80
10	Geology and Physical Properties Investigations by the InSight Lander. Space Science Reviews, 2018, 214, 1.	3.7	77
11	Detection, Analysis, and Removal of Glitches From InSight's Seismic Data From Mars. Earth and Space Science, 2020, 7, e2020EA001317.	1.1	75
12	<i>S</i>velocity structure and radial anisotropy in the Aegean region from surface wave dispersion. Geophysical Journal International, 2008, 174, 593-616.	1.0	60
13	A Pre-Landing Assessment of Regolith Properties at the InSight Landing Site. Space Science Reviews, 2018, 214, 1.	3.7	58
14	Exploring the model space and ranking a best class of models in surface-wave dispersion inversion: Application at European strong-motion sites. Geophysics, 2012, 77, B147-B166.	1.4	56
15	Lithospheric structure in the area of Crete constrained by receiver functions and dispersion analysis of Rayleigh phase velocities. Geophysical Journal International, 2004, 158, 592-608.	1.0	48
16	InSight Constraints on the Global Character of the Martian Crust. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	45
17	First Focal Mechanisms of Marsquakes. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006546.	1.5	43
18	Potential Pitfalls in the Analysis and Structural Interpretation of Seismic Data from the Mars <i>InSight</i> Mission. Bulletin of the Seismological Society of America, 2021, 111, 2982-3002.	1.1	42

#	Article	IF	Citations
19	The Marsquake Service: Securing Daily Analysis of SEIS Data and Building the Martian Seismicity Catalogue for InSight. Space Science Reviews, 2018, 214, 1.	3.7	41
20	The shallow structure of Mars at the InSight landing site from inversion of ambient vibrations. Nature Communications, 2021, 12, 6756.	5.8	40
21	Joint inversion of long-period magnetotelluric data and surface-wave dispersion curves for anisotropic structure: Application to data from Central Germany. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	38
22	A model for the Hellenic subduction zone in the area of Crete based on seismological investigations. Geological Society Special Publication, 2007, 291, 183-199.	0.8	36
23	Autocorrelation of the Ground Vibrations Recorded by the SEISâ€InSight Seismometer on Mars. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006498.	1.5	34
24	Improving Constraints on Planetary Interiors With PPs Receiver Functions. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006983.	1.5	34
25	Moho depth across the Trans-European Suture Zone from P- and S-receiver functions. Geophysical Journal International, 2014, 197, 1048-1075.	1.0	33
26	From Non-invasive Site Characterization to Site Amplification: Recent Advances in the Use of Ambient Vibration Measurements. Geotechnical, Geological and Earthquake Engineering, 2010, , 105-123.	0.1	33
27	Crustal thickness across the Trans-European Suture Zone from ambient noise autocorrelations. Geophysical Journal International, 2018, 212, 1237-1254.	1.0	32
28	CYC-NET: A Temporary Seismic Network on the Cyclades (Aegean Sea, Greece). Seismological Research Letters, 2004, 75, 352-359.	0.8	31
29	Rayleigh Wave Ellipticity Modeling and Inversion for Shallow Structure at the Proposed InSight Landing Site in Elysium Planitia, Mars. Space Science Reviews, 2017, 211, 339-382.	3.7	31
30	Analysis of Regolith Properties Using Seismic Signals Generated by InSightâ€™s HP3 Penetrator. Space Science Reviews, 2017, 211, 315-337.	3.7	31
31	Seismic Noise Autocorrelations on Mars. Earth and Space Science, 2021, 8, e2021EA001755.	1.1	31
32	Influence of parameterization on inversion of surface wave dispersion curves and definition of an inversion strategy for sites with a strong VS contrast. Geophysics, 2010, 75, B197-B209.	1.4	30
33	Love wave contribution to the ambient vibration H/V amplitude peak observed with array measurements. Journal of Seismology, 2011, 15, 443-472.	0.6	30
34	On the repeatability and consistency of three-component ambient vibration array measurements. Bulletin of Earthquake Engineering, 2010, 8, 535-570.	2.3	29
35	Tracing the influence of the Trans-European Suture Zone into the mantle transition zone. Earth and Planetary Science Letters, 2013, 363, 73-87.	1.8	29
36	The Far Side of Mars: Two Distant Marsquakes Detected by InSight. The Seismic Record, 2022, 2, 88-99.	1.3	29

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37	Comparison of gravimetric and seismic constraints on the structure of the Aegean lithosphere in the forearc of the Hellenic subduction zone in the area of Crete. Journal of Geodynamics, 2007, 44, 173-185.	0.7	27
38	Energy Envelope and Attenuation Characteristics of High-Frequency (HF) and Very-High-Frequency (VF) Martian Events. Bulletin of the Seismological Society of America, 2021, 111, 3016-3034.	1.1	23
39	Continental vs. oceanic lithosphere beneath the eastern Mediterranean Sea â€" Implications from Rayleigh wave dispersion measurements. Tectonophysics, 2008, 457, 42-52.	0.9	22
40	Upper mantle structure across the Trans-European Suture Zone imaged by S-receiver functions. Earth and Planetary Science Letters, 2017, 458, 429-441.	1.8	22
41	A Numerical Model of the SEIS Leveling System Transfer Matrix and Resonances: Application to SEIS Rotational Seismology and Dynamic Ground Interaction. Space Science Reviews, 2018, 214, 1.	3.7	22
42	Modeling the influence of Moho topography on receiver functions: A case study from the central Hellenic subduction zone. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	20
43	Identification of new events in Apollo 16 lunar seismic data by Hidden Markov Modelâ€based event detection and classification. Journal of Geophysical Research E: Planets, 2015, 120, 1620-1645.	1.5	16
44	Flexible Mode Modelling of the InSight Lander and Consequences for the SEIS Instrument. Space Science Reviews, 2018, 214, 1.	3.7	16
45	MSS/1: Singleâ€Station and Singleâ€Event Marsquake Inversion. Earth and Space Science, 2020, 7, e2020EA001118.	1.1	16
46	Resonances of the InSight Seismometer on Mars. Bulletin of the Seismological Society of America, 2021, 111, 2951-2963.	1.1	15
47	Seasonal seismic activity on Mars. Earth and Planetary Science Letters, 2021, 576, 117171.	1.8	13
48	Preliminary analysis of newly recovered Apollo 17 seismic data. Results in Physics, 2017, 7, 4457-4458.	2.0	12
49	Influence of Body Waves, Instrumentation Resonances, and Prior Assumptions on Rayleigh Wave Ellipticity Inversion for Shallow Structure at the InSight Landing Site. Space Science Reviews, 2018, 214, 1.	3.7	10
50	Crustal S-Wave Velocity from Apparent Incidence Angles: A Case Study in Preparation for InSight. Space Science Reviews, 2018, 214, 1.	3.7	10
51	The first active seismic experiment on Mars to characterize the shallow subsurface structure at the InSight landing site. , 2019, , .		10
52	NASAâ€™s InSight mission on Marsâ€"first glimpses of the planetâ€™s interior from seismology. Nature Communications, 2020, 11, 1451.	5.8	8
53	Estimation of the Seismic Moment Rate from an Incomplete Seismicity Catalog, in the Context of the InSight Mission to Mars. Bulletin of the Seismological Society of America, 2019, 109, 1125-1147.	1.1	7
54	Preparing for InSight: Evaluation of the Blind Test for Martian Seismicity. Seismological Research Letters, 0, , .	0.8	5

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55	Crustal thickness from horizontal component seismic noise auto- and cross-correlations for stations in Central and Eastern Europe. Geophysical Journal International, 2019, 218, 429-445.	1.0	5
56	Joint Inversion of Receiver Functions and Apparent Incidence Angles for Sparse Seismic Data. Earth and Space Science, 2021, 8, e2021EA001733.	1.1	5
57	Reply to â€˜Comment on â€œCrustal thickness across the Trans-European Suture Zone from ambient noise autocorrelationsâ€•by G. Becker and B. Knapmeyer-Endrunâ€™ by G. Helffrich. Geophysical Journal International, 2019, 217, 1261-1266.	1.0	2
58	German Seismic and Infrasound Networks Contributing to the European Integrated Data Archive (EIDA). Seismological Research Letters, 2021, 92, 1854-1875.	0.8	2
59	An autonomous lunar geophysical experiment package (ALGEP) for future space missions. Experimental Astronomy, 2022, 54, 617-640.	1.6	2