

Jessica C E Irving

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,527
citations

516710

16
h-index

580821

25
g-index

28
all docs

28
docs citations

28
times ranked

1319
citing authors

#	ARTICLE	IF	CITATIONS
1	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , 2020, 13, 183-189.	12.9	274
2	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
3	Global quieting of high-frequency seismic noise due to COVID-19 pandemic lockdown measures. <i>Science</i> , 2020, 369, 1338-1343.	12.6	202
4	Seismic detection of the martian core. <i>Science</i> , 2021, 373, 443-448.	12.6	169
5	Regional Variation of Inner Core Anisotropy from Seismic Normal Mode Observations. <i>Science</i> , 2010, 328, 1018-1020.	12.6	112
6	Reconciling the hemispherical structure of Earth's inner core with its super-rotation. <i>Nature Geoscience</i> , 2011, 4, 264-267.	12.9	102
7	Hemispherical structure in inner core velocity anisotropy. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	75
8	Seismically determined elastic parameters for Earth's outer core. <i>Science Advances</i> , 2018, 4, eaar2538.	10.3	60
9	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
10	Inferring Earth's discontinuous chemical layering from the 660-kilometer boundary topography. <i>Science</i> , 2019, 363, 736-740.	12.6	41
11	Improving Constraints on Planetary Interiors With PPs Receiver Functions. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006983.	3.6	34
12	The Far Side of Mars: Two Distant Marsquakes Detected by InSight. <i>The Seismic Record</i> , 2022, 2, 88-99.	3.1	29
13	Normal mode coupling due to hemispherical anisotropic structure in Earth's inner core. <i>Geophysical Journal International</i> , 2009, 178, 962-975.	2.4	26
14	Stratified anisotropic structure at the top of Earth's inner core: A normal mode study. <i>Physics of the Earth and Planetary Interiors</i> , 2011, 186, 59-69.	1.9	22
15	Core formation and geophysical properties of Mars. <i>Earth and Planetary Science Letters</i> , 2020, 530, 115923.	4.4	22
16	Wide-band coupling of Earth's normal modes due to anisotropic inner core structure. <i>Geophysical Journal International</i> , 2008, 174, 919-929.	2.4	19
17	Regional seismic variations in the inner core under the North Pacific. <i>Geophysical Journal International</i> , 2015, 203, 2189-2199.	2.4	16
18	Using PKiKP coda to study heterogeneity in the top layer of the inner core's western hemisphere. <i>Geophysical Journal International</i> , 2017, 209, 672-687.	2.4	15

#	ARTICLE	IF	CITATIONS
19	A Plan for a Long-Term, Automated, Broadband Seismic Monitoring Network on the Global Seafloor. <i>Seismological Research Letters</i> , 2020, 91, 1343-1355.	1.9	13
20	Imaging the inner core under Africa and Europe. <i>Physics of the Earth and Planetary Interiors</i> , 2016, 254, 12-24.	1.9	12
21	Array-Based Iterative Measurements of Travel Times and Their Constraints on Outermost Core Structure. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018162.	3.4	9
22	A MERMAID Miscellany: Seismoacoustic Signals beyond the P Wave. <i>Seismological Research Letters</i> , 0, , .	1.9	7
23	Evidence from high frequency seismic waves for the basalt-eclogite transition in the Pacific slab under northeastern Japan. <i>Earth and Planetary Science Letters</i> , 2018, 496, 68-79.	4.4	5
24	Recording earthquakes for tomographic imaging of the mantle beneath the South Pacific by autonomous MERMAID floats. <i>Geophysical Journal International</i> , 2021, 228, 147-170.	2.4	5
25	Mantle Transition Zone Receiver Functions for Bermuda: Automation, Quality Control, and Interpretation. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020177.	3.4	4
26	Instrument Response Removal and the 2020 MLg3.1 Marlboro, New Jersey, Earthquake. <i>Seismological Research Letters</i> , 0, , .	1.9	3
27	Earth's soft heart. <i>Science</i> , 2018, 362, 294-294.	12.6	2