

James Wookey

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
papers

2,708
citations

31
h-index

50
g-index

79
ext. papers

3,082
ext. citations

7.1
avg. IF

5.09
L-index

#	Paper	IF	Citations
76	Field measurements of fracture characteristics on a wave-cut platform. <i>Interpretation</i> , 2021 , 9, T453-T462	2.4	1
75	Conjugate Fault Deformation Revealed by Aftershocks of the 2013 Mw6.6 Lushan Earthquake and Seismic Anisotropy Tomography. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092563	4.9	1
74	Application of machine learning to microseismic event detection in distributed acoustic sensing data. <i>Geophysics</i> , 2020 , 85, KS149-KS160	3.1	18
73	Characteristics of microseismic data recorded by distributed acoustic sensing systems in anisotropic media. <i>Geophysics</i> , 2020 , 85, KS139-KS147	3.1	15
72	A potential post-perovskite province in D ₂ beneath the Eastern Pacific: evidence from new analysis of discrepant SKS ₂ KKKS shear-wave splitting. <i>Geophysical Journal International</i> , 2020 , 221, 2075-2090	2.6	4
71	A New Crater Near InSight: Implications for Seismic Impact Detectability on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2020JE006382	4.1	15
70	Seismic anisotropy in deforming halite: evidence from the Mahogany salt body. <i>Geophysical Journal International</i> , 2020 , 223, 1672-1687	2.6	1
69	SEIS: Insight's Seismic Experiment for Internal Structure of Mars. <i>Space Science Reviews</i> , 2019 , 215, 12	7.5	143
68	Constraining lowermost mantle anisotropy with body waves: a synthetic modelling study. <i>Geophysical Journal International</i> , 2019 , 217, 766-783	2.6	12
67	Discriminating Between Causes of D ₂ Anisotropy Using Reflections and Splitting Measurements for a Single Path. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 4811-4830	3.6	12
66	The anisotropic signal of topotaxy during phase transitions in D ₂ . <i>Physics of the Earth and Planetary Interiors</i> , 2018 , 276, 159-171	2.3	9
65	Detecting seismic anisotropy above the 410 km discontinuity using reflection coefficients of underside reflections. <i>Physics of the Earth and Planetary Interiors</i> , 2018 , 274, 170-183	2.3	6
64	Impact-Seismic Investigations of the InSight Mission. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	36
63	Near-Field Seismic Propagation and Coupling Through Mars' Regolith: Implications for the InSight Mission. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	7
62	Local Magnitude Discrepancies for Near-Event Receivers: Implications for the U.K. Traffic-Light Scheme. <i>Bulletin of the Seismological Society of America</i> , 2017 , 107, 532-541	2.3	21
61	Seismic Coupling of Short-Period Wind Noise Through Mars' Regolith for NASA's InSight Lander. <i>Space Science Reviews</i> , 2017 , 211, 485-500	7.5	19
60	Planned Products of the Mars Structure Service for the InSight Mission to Mars. <i>Space Science Reviews</i> , 2017 , 211, 611-650	7.5	69

59	Seismic anisotropy and mantle flow below subducting slabs. <i>Earth and Planetary Science Letters</i> , 2017 , 465, 155-167	5.3	22
58	Seismicity associated with magmatism, faulting and hydrothermal circulation at Aluto Volcano, Main Ethiopian Rift. <i>Journal of Volcanology and Geothermal Research</i> , 2017 , 340, 52-67	2.8	46
57	Analysis of Regolith Properties Using Seismic Signals Generated by InSight® HP3 Penetrator. <i>Space Science Reviews</i> , 2017 , 211, 315-337	7.5	23
56	Bolide Airbursts as a Seismic Source for the 2018 Mars InSight Mission. <i>Space Science Reviews</i> , 2017 , 211, 525-545	7.5	14
55	The 24th January 2016 Hawassa earthquake: Implications for seismic hazard in the Main Ethiopian Rift. <i>Journal of African Earth Sciences</i> , 2017 , 125, 118-125	2.2	12
54	Seismic evidence for flow in the hydrated mantle wedge of the Ryukyu subduction zone. <i>Scientific Reports</i> , 2016 , 6, 29981	4.9	18
53	The limits of ray theory when measuring shear wave splitting in the lowermost mantle with ScS waves. <i>Geophysical Journal International</i> , 2016 , 207, 1573-1583	2.6	16
52	Probing the edge of the West African Craton: A first seismic glimpse from Niger. <i>Geophysical Research Letters</i> , 2015 , 42, 1694-1700	4.9	4
51	Analytical parametrization of self-consistent polycrystal mechanics: Fast calculation of upper mantle anisotropy. <i>Geophysical Journal International</i> , 2015 , 203, 334-350	2.6	4
50	The Hudson Bay Lithospheric Experiment (HuBLE): insights into Precambrian plate tectonics and the development of mantle keels. <i>Geological Society Special Publication</i> , 2015 , 389, 41-67	1.7	17
49	Mid-mantle anisotropy in subduction zones and deep water transport. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 764-784	3.6	38
48	CAN-HK: An a Priori Crustal Model for the Canadian Shield. <i>Seismological Research Letters</i> , 2015 , 86, 1374-1382	5	5
47	Variation of thermal conductivity and heat flux at the Earth's core mantle boundary. <i>Earth and Planetary Science Letters</i> , 2014 , 390, 175-185	5.3	37
46	A uniformly processed data set of SKS shear wave splitting measurements: A global investigation of upper mantle anisotropy beneath seismic stations. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 1991-2010	3.6	14
45	Development of texture and seismic anisotropy during the onset of subduction. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 192-212	3.6	33
44	Differentiating flow, melt, or fossil seismic anisotropy beneath Ethiopia. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 1878-1894	3.6	46
43	Constraints on the tectonic evolution of the westernmost Mediterranean and northwestern Africa from shear wave splitting analysis. <i>Earth and Planetary Science Letters</i> , 2013 , 375, 234-243	5.3	46
42	Evaluating post-perovskite as a cause of D?? anisotropy in regions of palaeosubduction. <i>Geophysical Journal International</i> , 2013 , 192, 1085-1090	2.6	29

41	Estimates of seismic activity in the Cerberus Fossae region of Mars. <i>Journal of Geophysical Research E: Planets</i> , 2013 , 118, 2570-2581	4.1	38
40	The Seismic Analysis Code: A Primer and User's Guide 2013 ,		57
39	Numerical modelling of the upper-mantle anisotropy beneath a migrating strike-slip plate boundary: the San Andreas Fault system. <i>Geophysical Journal International</i> , 2012 , 191, 436-458	2.6	14
38	Deformation and mantle flow beneath the Sangihe subduction zone from seismic anisotropy. <i>Physics of the Earth and Planetary Interiors</i> , 2012 , 194-195, 38-54	2.3	41
37	Mantle anisotropy beneath the Earth's mid-ocean ridges. <i>Earth and Planetary Science Letters</i> , 2012 , 317-318, 56-67	5.3	22
36	Mantle flow in regions of complex tectonics: Insights from Indonesia. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13,	3.6	26
35	MSATA: a new toolkit for the analysis of elastic and seismic anisotropy. <i>Computers and Geosciences</i> , 2012 , 49, 81-90	4.5	99
34	Direct probabilistic inversion of shear wave data for seismic anisotropy. <i>Geophysical Journal International</i> , 2012 , 189, 1025-1037	2.6	14
33	Fracture mapping using seismic amplitude variation with offset and azimuth analysis at the Weyburn CO2 storage site. <i>Geophysics</i> , 2012 , 77, B295-B306	3.1	15
32	Elastic anisotropy of D? predicted from global models of mantle flow. <i>Geochemistry, Geophysics, Geosystems</i> , 2011 , 12, n/a-n/a	3.6	49
31	Anisotropy as cause for polarity reversals of D? reflections. <i>Earth and Planetary Science Letters</i> , 2011 , 307, 369-376	5.3	30
30	Implications of a simple mantle transition zone beneath cratonic North America. <i>Earth and Planetary Science Letters</i> , 2011 , 312, 28-36	5.3	34
29	New advances in using seismic anisotropy, mineral physics and geodynamics to understand deformation in the lowermost mantle. <i>Journal of Geodynamics</i> , 2011 , 52, 205-228	2.2	66
28	Seismic detection of meteorite impacts on Mars. <i>Physics of the Earth and Planetary Interiors</i> , 2011 , 186, 70-80	2.3	51
27	Inferring rock fracture evolution during reservoir stimulation from seismic anisotropy. <i>Geophysics</i> , 2011 , 76, WC157-WC166	3.1	16
26	Crustal structure beneath Hudson Bay from ambient-noise tomography: implications for basin formation. <i>Geophysical Journal International</i> , 2011 , 184, 65-82	2.6	40
25	The Hudson Bay Lithospheric Experiment. <i>Astronomy and Geophysics</i> , 2011 , 52, 6.21-6.24	0.2	7
24	Precambrian plate tectonics: Seismic evidence from northern Hudson Bay, Canada. <i>Geology</i> , 2011 , 39, 91-94	5	41

23	From crystal to crustal: petrofabric-derived seismic modelling of regional tectonics. <i>Geological Society Special Publication</i> , 2011 , 360, 49-78	1.7	14
22	Interpreting spatial variations in anisotropy: insights into the Main Ethiopian Rift from SKS waveform modelling. <i>Geophysical Journal International</i> , 2010 ,	2.6	5
21	First-principles constraints on diffusion in lower-mantle minerals and a weak D'' layer. <i>Nature</i> , 2010 , 465, 462-5	50.4	181
20	Deformation of the lowermost mantle from seismic anisotropy. <i>Nature</i> , 2010 , 467, 1091-4	50.4	67
19	A strategy for automated analysis of passive microseismic data to image seismic anisotropy and fracture characteristics. <i>Geophysical Prospecting</i> , 2010 , 58, 755-773	1.9	73
18	Precambrian crustal evolution: Seismic constraints from the Canadian Shield. <i>Earth and Planetary Science Letters</i> , 2010 , 297, 655-666	5.3	89
17	Systematic variation in anisotropy beneath the mantle wedge in the JavaSumatra subduction system from shear-wave splitting. <i>Physics of the Earth and Planetary Interiors</i> , 2010 , 178, 189-201	2.3	49
16	New views of the Earth's interior. <i>Astronomy and Geophysics</i> , 2009 , 50, 3.34-3.37	0.2	1
15	Inner-core shear-wave anisotropy and texture from an observation of PKJKP waves. <i>Nature</i> , 2008 , 454, 873-6	50.4	41
14	Between a rock and a hot place: the core-mantle boundary. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008 , 366, 4543-57	3	3
13	Constraints on lowermost mantle mineralogy and fabric beneath Siberia from seismic anisotropy. <i>Earth and Planetary Science Letters</i> , 2008 , 275, 32-42	5.3	57
12	D? anisotropy beneath Southeast Asia. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	18
11	Stratigraphic filtering and source penetration depth. <i>Geophysical Prospecting</i> , 2007 , 55, 679-684	1.9	8
10	Seismic anisotropy as an indicator of reservoir quality in siliciclastic rocks. <i>Geological Society Special Publication</i> , 2007 , 292, 123-136	1.7	21
9	Seismic Anisotropy of Post-Perovskite and the Lowermost Mantle. <i>Geophysical Monograph Series</i> , 2007 , 171-189	1.1	23
8	The effect of temperature on the seismic anisotropy of the perovskite and post-perovskite polymorphs of MgSiO ₃ . <i>Earth and Planetary Science Letters</i> , 2005 , 230, 1-10	5.3	129
7	Lowermost mantle anisotropy beneath the north Pacific from differential S-ScS splitting. <i>Geophysical Journal International</i> , 2005 , 161, 829-838	2.6	85
6	Efficacy of the post-perovskite phase as an explanation for lowermost-mantle seismic properties. <i>Nature</i> , 2005 , 438, 1004-7	50.4	175

- 5 Evidence of midmantle anisotropy from shear wave splitting and the influence of shear-coupled P waves. *Journal of Geophysical Research*, **2004**, 109, 45
- 4 Mantle deformation or processing artefact?. *Nature*, **2003**, 422, 136-136 50.4 5
- 3 Mid-mantle deformation inferred from seismic anisotropy. *Nature*, **2002**, 415, 777-80 50.4 135
- 2 VTI anisotropy parameter estimation in the tau-p domain: An example from the North Sea **2002**, 1
- 1 The Coupled Magmatic and Hydrothermal Systems of the Restless Aluto Caldera, Ethiopia. *Frontiers in Earth Science*, 8, 3-5 5