

James Wookey

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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 | First-principles constraints on diffusion in lower-mantle minerals and a weak D'' layer. <i>Nature</i> , 2010 , 465, 462-5 | 50.4 | 181 |
| 75 | Efficacy of the post-perovskite phase as an explanation for lowermost-mantle seismic properties. <i>Nature</i> , 2005 , 438, 1004-7 | 50.4 | 175 |
| 74 | SEIS: Insight's Seismic Experiment for Internal Structure of Mars. <i>Space Science Reviews</i> , 2019 , 215, 12 | 7.5 | 143 |
| 73 | Mid-mantle deformation inferred from seismic anisotropy. <i>Nature</i> , 2002 , 415, 777-80 | 50.4 | 135 |
| 72 | 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 |
| 71 | MSAT: A new toolkit for the analysis of elastic and seismic anisotropy. <i>Computers and Geosciences</i> , 2012 , 49, 81-90 | 4.5 | 99 |
| 70 | Precambrian crustal evolution: Seismic constraints from the Canadian Shield. <i>Earth and Planetary Science Letters</i> , 2010 , 297, 655-666 | 5.3 | 89 |
| 69 | Lowermost mantle anisotropy beneath the north Pacific from differential S-ScS splitting. <i>Geophysical Journal International</i> , 2005 , 161, 829-838 | 2.6 | 85 |
| 68 | 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 |
| 67 | 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 |
| 66 | Deformation of the lowermost mantle from seismic anisotropy. <i>Nature</i> , 2010 , 467, 1091-4 | 50.4 | 67 |
| 65 | 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 |
| 64 | 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 |
| 63 | The Seismic Analysis Code: A Primer and User's Guide 2013 , | | 57 |
| 62 | Seismic detection of meteorite impacts on Mars. <i>Physics of the Earth and Planetary Interiors</i> , 2011 , 186, 70-80 | 2.3 | 51 |
| 61 | 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 |
| 60 | Systematic variation in anisotropy beneath the mantle wedge in the Java-Sumatra subduction system from shear-wave splitting. <i>Physics of the Earth and Planetary Interiors</i> , 2010 , 178, 189-201 | 2.3 | 49 |

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| 59 | 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 |
| 58 | 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 |
| 57 | Differentiating flow, melt, or fossil seismic anisotropy beneath Ethiopia. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 1878-1894 | 3.6 | 46 |
| 56 | Evidence of midmantle anisotropy from shear wave splitting and the influence of shear-coupled P waves. <i>Journal of Geophysical Research</i> , 2004 , 109, | | 45 |
| 55 | 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 |
| 54 | Precambrian plate tectonics: Seismic evidence from northern Hudson Bay, Canada. <i>Geology</i> , 2011 , 39, 91-94 | 5 | 41 |
| 53 | Inner-core shear-wave anisotropy and texture from an observation of PKJKP waves. <i>Nature</i> , 2008 , 454, 873-6 | 50.4 | 41 |
| 52 | 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 |
| 51 | Mid-mantle anisotropy in subduction zones and deep water transport. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 764-784 | 3.6 | 38 |
| 50 | 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 |
| 49 | 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 |
| 48 | Impact-Seismic Investigations of the InSight Mission. <i>Space Science Reviews</i> , 2018 , 214, 1 | 7.5 | 36 |
| 47 | 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 |
| 46 | Development of texture and seismic anisotropy during the onset of subduction. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 192-212 | 3.6 | 33 |
| 45 | Anisotropy as cause for polarity reversals of D ₂ reflections. <i>Earth and Planetary Science Letters</i> , 2011 , 307, 369-376 | 5.3 | 30 |
| 44 | Evaluating post-perovskite as a cause of D ₂ anisotropy in regions of palaeosubduction. <i>Geophysical Journal International</i> , 2013 , 192, 1085-1090 | 2.6 | 29 |
| 43 | Mantle flow in regions of complex tectonics: Insights from Indonesia. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, | 3.6 | 26 |
| 42 | Analysis of Regolith Properties Using Seismic Signals Generated by InSight's HP3 Penetrator. <i>Space Science Reviews</i> , 2017 , 211, 315-337 | 7.5 | 23 |

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| 41 | Seismic Anisotropy of Post-Perovskite and the Lowermost Mantle. <i>Geophysical Monograph Series</i> , 2007 , 171-189 | 1.1 | 23 |
| 40 | Seismic anisotropy and mantle flow below subducting slabs. <i>Earth and Planetary Science Letters</i> , 2017 , 465, 155-167 | 5.3 | 22 |
| 39 | Mantle anisotropy beneath the Earth's mid-ocean ridges. <i>Earth and Planetary Science Letters</i> , 2012 , 317-318, 56-67 | 5.3 | 22 |
| 38 | 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 |
| 37 | Seismic anisotropy as an indicator of reservoir quality in siliciclastic rocks. <i>Geological Society Special Publication</i> , 2007 , 292, 123-136 | 1.7 | 21 |
| 36 | Seismic Coupling of Short-Period Wind Noise Through Mars's Regolith for NASA's InSight Lander. <i>Space Science Reviews</i> , 2017 , 211, 485-500 | 7.5 | 19 |
| 35 | Application of machine learning to microseismic event detection in distributed acoustic sensing data. <i>Geophysics</i> , 2020 , 85, KS149-KS160 | 3.1 | 18 |
| 34 | D ₂ anisotropy beneath Southeast Asia. <i>Geophysical Research Letters</i> , 2007 , 34, | 4.9 | 18 |
| 33 | Seismic evidence for flow in the hydrated mantle wedge of the Ryukyu subduction zone. <i>Scientific Reports</i> , 2016 , 6, 29981 | 4.9 | 18 |
| 32 | 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 |
| 31 | Inferring rock fracture evolution during reservoir stimulation from seismic anisotropy. <i>Geophysics</i> , 2011 , 76, WC157-WC166 | 3.1 | 16 |
| 30 | 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 |
| 29 | Characteristics of microseismic data recorded by distributed acoustic sensing systems in anisotropic media. <i>Geophysics</i> , 2020 , 85, KS139-KS147 | 3.1 | 15 |
| 28 | Fracture mapping using seismic amplitude variation with offset and azimuth analysis at the Weyburn CO ₂ storage site. <i>Geophysics</i> , 2012 , 77, B295-B306 | 3.1 | 15 |
| 27 | 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 |
| 26 | 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 |
| 25 | Bolide Airbursts as a Seismic Source for the 2018 Mars InSight Mission. <i>Space Science Reviews</i> , 2017 , 211, 525-545 | 7.5 | 14 |
| 24 | 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 |

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| 23 | Direct probabilistic inversion of shear wave data for seismic anisotropy. <i>Geophysical Journal International</i> , 2012 , 189, 1025-1037 | 2.6 | 14 |
| 22 | From crystal to crustal: petrofabric-derived seismic modelling of regional tectonics. <i>Geological Society Special Publication</i> , 2011 , 360, 49-78 | 1.7 | 14 |
| 21 | Constraining lowermost mantle anisotropy with body waves: a synthetic modelling study. <i>Geophysical Journal International</i> , 2019 , 217, 766-783 | 2.6 | 12 |
| 20 | Discriminating Between Causes of D? 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 |
| 19 | 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 |
| 18 | The anisotropic signal of topotaxy during phase transitions in D?. <i>Physics of the Earth and Planetary Interiors</i> , 2018 , 276, 159-171 | 2.3 | 9 |
| 17 | Stratigraphic filtering and source penetration depth. <i>Geophysical Prospecting</i> , 2007 , 55, 679-684 | 1.9 | 8 |
| 16 | The Hudson Bay Lithospheric Experiment. <i>Astronomy and Geophysics</i> , 2011 , 52, 6.21-6.24 | 0.2 | 7 |
| 15 | 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 |
| 14 | 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 |
| 13 | CAN-HK: An a Priori Crustal Model for the Canadian Shield. <i>Seismological Research Letters</i> , 2015 , 86, 1374-1382 | 5 | 5 |
| 12 | Interpreting spatial variations in anisotropy: insights into the Main Ethiopian Rift from SKS waveform modelling. <i>Geophysical Journal International</i> , 2010 , | 2.6 | 5 |
| 11 | Mantle deformation or processing artefact?. <i>Nature</i> , 2003 , 422, 136-136 | 50.4 | 5 |
| 10 | The Coupled Magmatic and Hydrothermal Systems of the Restless Aluto Caldera, Ethiopia. <i>Frontiers in Earth Science</i> , 8 , | 3.5 | 5 |
| 9 | 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 |
| 8 | 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 |
| 7 | A potential post-perovskite province in D? beneath the Eastern Pacific: evidence from new analysis of discrepant SKS/BKKS shear-wave splitting. <i>Geophysical Journal International</i> , 2020 , 221, 2075-2090 | 2.6 | 4 |
| 6 | 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 |

- 5 New views of the Earth's interior. *Astronomy and Geophysics*, **2009**, 50, 3.34-3.37 0.2 1
- 4 VTI anisotropy parameter estimation in the tau-p domain: An example from the North Sea **2002**, 1
- 3 Seismic anisotropy in deforming halite: evidence from the Mahogany salt body. *Geophysical Journal International*, **2020**, 223, 1672-1687 2.6 1
- 2 Conjugate Fault Deformation Revealed by Aftershocks of the 2013 Mw6.6 Lushan Earthquake and Seismic Anisotropy Tomography. *Geophysical Research Letters*, **2021**, 48, e2021GL092563 4.9 1
- 1 Field measurements of fracture characteristics on a wave-cut platform. *Interpretation*, **2021**, 9, T453-T462.4