

Alexander J B Russell

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

680
citations

623734

14
h-index

552781

26
g-index

29
all docs

29
docs citations

29
times ranked

779
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Effects of M dwarf magnetic fields on potentially habitable planets. <i>Astronomy and Astrophysics</i> , 2013, 557, A67. | 5.1 | 114 |
| 2 | SIMULATIONS OF THE Mg II K AND Ca II 8542 LINES FROM AN ALFVÉN WAVE-HEATED FLARE CHROMOSPHERE. <i>Astrophysical Journal</i> , 2016, 827, 101. | 4.5 | 76 |
| 3 | IMPLOSION OF CORONAL LOOPS DURING THE IMPULSIVE PHASE OF A SOLAR FLARE. <i>Astrophysical Journal</i> , 2013, 777, 152. | 4.5 | 61 |
| 4 | ALFVÉN WAVE HEATING OF THE UPPER CHROMOSPHERE IN FLARES. <i>Astrophysical Journal Letters</i> , 2016, 818, L20. | 8.3 | 59 |
| 5 | PROPAGATION OF ALFVÉN WAVES FROM CORONA TO CHROMOSPHERE AND CONSEQUENCES FOR SOLAR FLARES. <i>Astrophysical Journal</i> , 2013, 765, 81. | 4.5 | 53 |
| 6 | Evolution of field line helicity during magnetic reconnection. <i>Physics of Plasmas</i> , 2015, 22, . | 1.9 | 44 |
| 7 | A unified view of coronal loop contraction and oscillation in flares. <i>Astronomy and Astrophysics</i> , 2015, 581, A8. | 5.1 | 37 |
| 8 | A Hydrodynamic Model of Alfvénic Wave Heating in a Coronal Loop and Its Chromospheric Footpoints. <i>Astrophysical Journal</i> , 2018, 853, 101. | 4.5 | 28 |
| 9 | Seismology of contracting and expanding coronal loops using damping of kink oscillations by mode coupling. <i>Astronomy and Astrophysics</i> , 2017, 607, A8. | 5.1 | 27 |
| 10 | 75th Anniversary of “Existence of Electromagnetic Hydrodynamic Waves”. <i>Solar Physics</i> , 2018, 293, 1. | 2.5 | 23 |
| 11 | Production of small-scale Alfvén waves by ionospheric depletion, nonlinear magnetosphere-ionosphere coupling and phase mixing. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1450-1460. | 2.4 | 22 |
| 12 | Braided magnetic fields: equilibria, relaxation and heating. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 054008. | 2.1 | 20 |
| 13 | Physical role of topological constraints in localized magnetic relaxation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150012. | 2.1 | 17 |
| 14 | Resonant absorption with 2D variation of field line eigenfrequencies. <i>Astronomy and Astrophysics</i> , 2010, 511, A17. | 5.1 | 15 |
| 15 | Solar flares and focused energy transport by MHD waves. <i>Astronomy and Astrophysics</i> , 2013, 558, A76. | 5.1 | 13 |
| 16 | Momentum Distribution in Solar Flare Processes. <i>Solar Physics</i> , 2012, 277, 77-88. | 2.5 | 12 |
| 17 | SUNQUAKE GENERATION BY CORONAL MAGNETIC RESTRUCTURING. <i>Astrophysical Journal</i> , 2016, 831, 42. | 4.5 | 12 |
| 18 | Self-consistent ionospheric plasma density modifications by field-aligned currents: Steady state solutions. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 10 |

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|----|--|-----|-----------|
| 19 | Solar Active Region Flux Fragmentation, Subphotospheric Flows, and Flaring. <i>Astrophysical Journal</i> , 2007, 662, L39-L42. | 4.5 | 7 |
| 20 | Do Current and Magnetic Helicities Have the Same Sign?. <i>Astrophysical Journal</i> , 2019, 884, 55. | 4.5 | 7 |
| 21 | Magnetospheric signatures of ionospheric density cavities observed by Cluster. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1876-1887. | 2.4 | 5 |
| 22 | Magnetosphere-ionosphere waves. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 4 |
| 23 | Field linkage and magnetic helicity density. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 4903-4910. | 4.4 | 3 |
| 24 | Evolution of field line helicity in magnetic relaxation. <i>Physics of Plasmas</i> , 2021, 28, . | 1.9 | 3 |
| 25 | Alfvén wave boundary condition for responsive magnetosphere-ionosphere coupling. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3996-4009. | 2.4 | 2 |
| 26 | Magnetic reconnection now and in the future. <i>Astronomy and Geophysics</i> , 2015, 56, 6.18-6.23. | 0.2 | 2 |
| 27 | Optimal unstirred state of a passive scalar. <i>Journal of Fluid Mechanics</i> , 2021, 911, . | 3.4 | 2 |
| 28 | Planetary protection in the extreme environments of low-mass stars. <i>Proceedings of the International Astronomical Union</i> , 2013, 9, 237-238. | 0.0 | 1 |
| 29 | Commentary: Discovery of the Sun's million-degree hot corona. <i>Frontiers in Astronomy and Space Sciences</i> , 2018, 5, . | 2.8 | 1 |