

# Alexander J B Russell

## List of Publications by Year in descending order

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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	Optimal unstirred state of a passive scalar. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	3.4	2
2	Field linkage and magnetic helicity density. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 4903-4910.	4.4	3
3	Evolution of field line helicity in magnetic relaxation. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	3
4	Do Current and Magnetic Helicities Have the Same Sign?. <i>Astrophysical Journal</i> , 2019, 884, 55.	4.5	7
5	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
6	75th Anniversary of “Existence of Electromagnetic” Hydrodynamic Waves™. <i>Solar Physics</i> , 2018, 293, 1.	2.5	23
7	Commentary: Discovery of the Sun's million-degree hot corona. <i>Frontiers in Astronomy and Space Sciences</i> , 2018, 5, .	2.8	1
8	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
9	SUNQUAKE GENERATION BY CORONAL MAGNETIC RESTRUCTURING. <i>Astrophysical Journal</i> , 2016, 831, 42.	4.5	12
10	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
11	ALFVÉN WAVE HEATING OF THE UPPER CHROMOSPHERE IN FLARES. <i>Astrophysical Journal Letters</i> , 2016, 818, L20.	8.3	59
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	Magnetic reconnection now and in the future. <i>Astronomy and Geophysics</i> , 2015, 56, 6.18-6.23.	0.2	2
15	Magnetospheric signatures of ionospheric density cavities observed by Cluster. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1876-1887.	2.4	5
16	A unified view of coronal loop contraction and oscillation in flares. <i>Astronomy and Astrophysics</i> , 2015, 581, A8.	5.1	37
17	Evolution of field line helicity during magnetic reconnection. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	44
18	Alfvén wave boundary condition for responsive magnetosphere-ionosphere coupling. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3996-4009.	2.4	2

#	ARTICLE	IF	CITATIONS
19	IMPLOSION OF CORONAL LOOPS DURING THE IMPULSIVE PHASE OF A SOLAR FLARE. <i>Astrophysical Journal</i> , 2013, 777, 152.	4.5	61
20	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
21	PROPAGATION OF ALFVÉNIC WAVES FROM CORONA TO CHROMOSPHERE AND CONSEQUENCES FOR SOLAR FLARES. <i>Astrophysical Journal</i> , 2013, 765, 81.	4.5	53
22	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
23	Effects of M dwarf magnetic fields on potentially habitable planets. <i>Astronomy and Astrophysics</i> , 2013, 557, A67.	5.1	114
24	Solar flares and focused energy transport by MHD waves. <i>Astronomy and Astrophysics</i> , 2013, 558, A76.	5.1	13
25	Magnetosphere-ionosphere waves. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	4
26	Momentum Distribution in Solar Flare Processes. <i>Solar Physics</i> , 2012, 277, 77-88.	2.5	12
27	Resonant absorption with 2D variation of field line eigenfrequencies. <i>Astronomy and Astrophysics</i> , 2010, 511, A17.	5.1	15
28	Self-consistent ionospheric plasma density modifications by field-aligned currents: Steady state solutions. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	10
29	Solar Active Region Flux Fragmentation, Subphotospheric Flows, and Flaring. <i>Astrophysical Journal</i> , 2007, 662, L39-L42.	4.5	7