

O W Roberts

List of Publications by Year in descending order

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35
papers

636
citations

687363

13
h-index

610901

24
g-index

50
all docs

50
docs citations

50
times ranked

585
citing authors

#	ARTICLE	IF	CITATIONS
1	KINETIC PLASMA TURBULENCE IN THE FAST SOLAR WIND MEASURED BY CLUSTER. <i>Astrophysical Journal</i> , 2013, 769, 58.	4.5	80
2	Turbulence-Driven Ion Beams in the Magnetospheric Kelvin-Helmholtz Instability. <i>Physical Review Letters</i> , 2019, 122, 035102.	7.8	62
3	Coherent Structures at Ion Scales in Fast Solar Wind: Cluster Observations. <i>Astrophysical Journal</i> , 2017, 849, 49.	4.5	60
4	A STATISTICAL STUDY OF THE SOLAR WIND TURBULENCE AT ION KINETIC SCALES USING THE K-FILTERING TECHNIQUE AND CLUSTER DATA. <i>Astrophysical Journal</i> , 2015, 802, 2.	4.5	46
5	EVIDENCE OF THE ION CYCLOTRON RESONANCE AT PROTON KINETIC SCALES IN THE SOLAR WIND. <i>Astrophysical Journal</i> , 2015, 802, 1.	4.5	34
6	Observation of an MHD Alfvén vortex in the slow solar wind. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3870-3881.	2.4	30
7	Multipoint analysis of compressive fluctuations in the fast and slow solar wind. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6940-6963.	2.4	29
8	Variability of the Magnetic Field Power Spectrum in the Solar Wind at Electron Scales. <i>Astrophysical Journal</i> , 2017, 850, 120.	4.5	26
9	Ion-Scale Kinetic Alfvén Turbulence: MMS Measurements of the Alfvén Ratio in the Magnetosheath. <i>Geophysical Research Letters</i> , 2018, 45, 7974-7984.	4.0	19
10	Cluster and MMS Simultaneous Observations of Magnetosheath High Speed Jets and Their Impact on the Magnetopause. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 6, .	2.8	18
11	Direct Measurement of Anisotropic and Asymmetric Wave Vector Spectrum in Ion-scale Solar Wind Turbulence. <i>Astrophysical Journal Letters</i> , 2017, 851, L11.	8.3	17
12	Statistical study of linear magnetic hole structures near Earth. <i>Annales Geophysicae</i> , 2021, 39, 239-253.	1.6	16
13	First Observations of the Disruption of the Earth's Foreshock Wave Field During Magnetic Clouds. <i>Geophysical Research Letters</i> , 2019, 46, 12644-12653.	4.0	15
14	Transport Ratios of the Kinetic Alfvén Mode in Space Plasmas. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	15
15	Anisotropy of the Spectral Index in Ion Scale Compressible Turbulence: MMS Observations in the Magnetosheath. <i>Frontiers in Physics</i> , 2019, 7, .	2.1	13
16	Sub-ion Scale Compressive Turbulence in the Solar Wind: MMS Spacecraft Potential Observations. <i>Astrophysical Journal, Supplement Series</i> , 2020, 250, 35.	7.7	13
17	Magnetosheath Jet Occurrence Rate in Relation to CMEs and SIRs. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	13
18	Multi-scale observations of the magnetopause Kelvin-Helmholtz waves during southward IMF. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	12

#	ARTICLE	IF	CITATIONS
19	Structure of Electron-Scale Plasma Mixing Along the Dayside Reconnection Separatrix. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8788-8803.	2.4	11
20	Higher-Order Statistics in Compressive Solar Wind Plasma Turbulence: High-Resolution Density Observations From the Magnetospheric MultiScale Mission. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	11
21	A Case for Electron-Astrophysics. <i>Experimental Astronomy</i> , 0, , 1.	3.7	11
22	Validation of the K^2 -filtering technique for a signal composed of random-phase plane waves and non-random coherent structures. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2014, 3, 247-254.	1.6	10
23	Multi-scale analysis of compressible fluctuations in the solar wind. <i>Annales Geophysicae</i> , 2018, 36, 47-52.	1.6	9
24	Charging time scales and magnitudes of dust and spacecraft potentials in space plasma scenarios. <i>Physics of Plasmas</i> , 2020, 27, 103704.	1.9	9
25	Possible coexistence of kinetic Alfvén and ion Bernstein modes in sub-ion scale compressive turbulence in the solar wind. <i>Physical Review Research</i> , 2020, 2, .	3.6	9
26	Three-dimensional density and compressible magnetic structure in solar wind turbulence. <i>Annales Geophysicae</i> , 2018, 36, 527-539.	1.6	8
27	Results from the intercalibration of optical low light calibration sources 2011. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2012, 1, 43-51.	1.6	7
28	A Study of the Solar Wind Ion and Electron Measurements From the Magnetospheric Multiscale Mission's Fast Plasma Investigation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029784.	2.4	7
29	Estimation of the Electron Density From Spacecraft Potential During High-Frequency Electric Field Fluctuations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027854.	2.4	6
30	Magnetic Field Reconstruction for a Realistic Multi-Point, Multi-Scale Spacecraft Observatory. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	6
31	Magnetic Reconnection Within the Boundary Layer of a Magnetic Cloud in the Solar Wind. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029415.	2.4	6
32	The kinetic Alfvén-like nature of turbulent fluctuations in the Earth's magnetosheath: MMS measurement of the electron Alfvén ratio. <i>Physics of Plasmas</i> , 2022, 29, 012308.	1.9	4
33	Wave Activity in a Dynamically Evolving Reconnection Separatrix. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028520.	2.4	2
34	Nature of Electrostatic Fluctuations in the Terrestrial Magnetosheath. <i>Astrophysical Journal</i> , 2021, 919, 75.	4.5	2
35	Atmospheric Drag, Occultation \sim Ionospheric Scintillation (ADONIS) mission proposal. <i>Journal of Space Weather and Space Climate</i> , 2015, 5, A2.	3.3	0