

Bennett A Maruca

List of Publications by Year in descending order

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34
papers

1,911
citations

236612

25
h-index

414034

32
g-index

34
all docs

34
docs citations

34
times ranked

1195
citing authors

#	ARTICLE	IF	CITATIONS
1	The multi-scale nature of the solar wind. <i>Living Reviews in Solar Physics</i> , 2019, 16, 5.	7.8	226
2	Ion-scale spectral break of solar wind turbulence at high and low beta. <i>Geophysical Research Letters</i> , 2014, 41, 8081-8088.	1.5	137
3	INSTABILITY-DRIVEN LIMITS ON HELIUM TEMPERATURE ANISOTROPY IN THE SOLAR WIND: OBSERVATIONS AND LINEAR VLASOV ANALYSIS. <i>Astrophysical Journal</i> , 2012, 748, 137.	1.6	123
4	What Are the Relative Roles of Heating and Cooling in Generating Solar Wind Temperature Anisotropies?. <i>Physical Review Letters</i> , 2011, 107, 201101.	2.9	116
5	EVOLUTION OF THE RELATIONSHIPS BETWEEN HELIUM ABUNDANCE, MINOR ION CHARGE STATE, AND SOLAR WIND SPEED OVER THE SOLAR CYCLE. <i>Astrophysical Journal</i> , 2012, 745, 162.	1.6	96
6	Sensitive Test for Ion-Cyclotron Resonant Heating in the Solar Wind. <i>Physical Review Letters</i> , 2013, 110, 091102.	2.9	95
7	RESIDUAL ENERGY SPECTRUM OF SOLAR WIND TURBULENCE. <i>Astrophysical Journal</i> , 2013, 770, 125.	1.6	95
8	The Statistical Properties of Solar Wind Temperature Parameters Near 1 au. <i>Astrophysical Journal</i> , Supplement Series, 2018, 236, 41.	3.0	94
9	MULTI-SPECIES MEASUREMENTS OF THE FIREHOSE AND MIRROR INSTABILITY THRESHOLDS IN THE SOLAR WIND. <i>Astrophysical Journal Letters</i> , 2016, 825, L26.	3.0	86
10	Shear-driven Transition to Isotropically Turbulent Solar Wind Outside the Alfvén Critical Zone. <i>Astrophysical Journal</i> , 2020, 902, 94.	1.6	83
11	Proton Temperature Anisotropy Variations in Inner Heliosphere Estimated with the First Parker Solar Probe Observations. <i>Astrophysical Journal</i> , Supplement Series, 2020, 246, 70.	3.0	56
12	Enhanced Energy Transfer Rate in Solar Wind Turbulence Observed near the Sun from Parker Solar Probe. <i>Astrophysical Journal</i> , Supplement Series, 2020, 246, 48.	3.0	56
13	Higher-Order Turbulence Statistics in the Earth's Magnetosheath and the Solar Wind Using Magnetospheric Multiscale Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9941-9954.	0.8	51
14	Measures of Scale-dependent Alfvénicity in the First PSP Solar Encounter. <i>Astrophysical Journal</i> , Supplement Series, 2020, 246, 58.	3.0	51
15	LIMITS ON ALPHA PARTICLE TEMPERATURE ANISOTROPY AND DIFFERENTIAL FLOW FROM KINETIC INSTABILITIES: SOLAR WIND OBSERVATIONS. <i>Astrophysical Journal Letters</i> , 2013, 777, L3.	3.0	50
16	Solar Wind Turbulence Studies Using MMS Fast Plasma Investigation Data. <i>Astrophysical Journal</i> , 2018, 866, 81.	1.6	48
17	A Zone of Preferential Ion Heating Extends Tens of Solar Radii from the Sun. <i>Astrophysical Journal</i> , 2017, 849, 126.	1.6	47
18	A PARALLEL-PROPAGATING ALFVÉN ION-BEAM INSTABILITY IN THE HIGH-BETA SOLAR WIND. <i>Astrophysical Journal</i> , 2013, 773, 8.	1.6	46

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19	Incompressible Energy Transfer in the Earth's Magnetosheath: Magnetospheric Multiscale Observations. <i>Astrophysical Journal</i> , 2018, 866, 106.	1.6	42
20	Collisional Thermalization of Hydrogen and Helium in Solar-Wind Plasma. <i>Physical Review Letters</i> , 2013, 111, 241101.	2.9	40
21	Parallel-propagating Fluctuations at Proton-kinetic Scales in the Solar Wind Are Dominated By Kinetic Instabilities. <i>Astrophysical Journal Letters</i> , 2019, 884, L53.	3.0	38
22	Clustering of Intermittent Magnetic and Flow Structures near Parker Solar Probe's First Perihelion: A Partial-variance-of-increments Analysis. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 31.	3.0	37
23	High-resolution Statistics of Solar Wind Turbulence at Kinetic Scales Using the Magnetospheric Multiscale Mission. <i>Astrophysical Journal Letters</i> , 2017, 844, L9.	3.0	30
24	SELF-CONSISTENT ION CYCLOTRON ANISOTROPY-BETA RELATION FOR SOLAR WIND PROTONS. <i>Astrophysical Journal</i> , 2013, 773, 164.	1.6	28
25	Observations of Heating along Intermittent Structures in the Inner Heliosphere from PSP Data. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 46.	3.0	26
26	Observations of Energetic-particle Population Enhancements along Intermittent Structures near the Sun from the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 61.	3.0	25
27	MMS Observations of Beta-dependent Constraints on Ion Temperature Anisotropy in Earth's Magnetosheath. <i>Astrophysical Journal</i> , 2018, 866, 25.	1.6	21
28	Polytropic Behavior of Solar Wind Protons Observed by Parker Solar Probe. <i>Astrophysical Journal</i> , 2020, 901, 26.	1.6	21
29	MagneToRE: Mapping the 3-D Magnetic Structure of the Solar Wind Using a Large Constellation of Nanosatellites. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	13
30	A Case for Electron-Astrophysics. <i>Experimental Astronomy</i> , 0, , 1.	1.6	11
31	Intermittency and Ion Temperature's Anisotropy Instabilities: Simulation and Magnetosheath Observation. <i>Astrophysical Journal</i> , 2020, 895, 83.	1.6	10
32	Particle-in-cell Simulations of Decaying Plasma Turbulence: Linear Instabilities versus Nonlinear Processes in 3D and 2.5D Approximations. <i>Astrophysical Journal</i> , 2020, 901, 160.	1.6	9
33	On the Solar Wind Proton Temperature Anisotropy at Mars' Orbital Location. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029438.	0.8	4
34	The interpretation of data from the Parker Solar Probe mission: shear-driven transition to an isotropically turbulent solar wind. <i>Radiation Effects and Defects in Solids</i> , 2020, 175, 1002-1003.	0.4	0