

Eberhard Moebius

List of Publications by Year in descending order

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79
papers

4,420
citations

117453

34
h-index

102304

66
g-index

82
all docs

82
docs citations

82
times ranked

1864
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Observations of the Interstellar Interaction from the Interstellar Boundary Explorer (IBEX). <i>Science</i> , 2009, 326, 959-962.	6.0	461
2	The Interstellar Boundary Explorer High Energy (IBEX-Hi) Neutral Atom Imager. <i>Space Science Reviews</i> , 2009, 146, 75-103.	3.7	226
3	Comparison of Interstellar Boundary Explorer Observations with 3D Global Heliospheric Models. <i>Science</i> , 2009, 326, 966-968.	6.0	221
4	Extended magnetic reconnection at the Earth's magnetopause from detection of bi-directional jets. <i>Nature</i> , 2000, 404, 848-850.	13.7	212
5	The IBEX-Lo Sensor. <i>Space Science Reviews</i> , 2009, 146, 117-147.	3.7	171
6	Width and Variation of the ENA Flux Ribbon Observed by the Interstellar Boundary Explorer. <i>Science</i> , 2009, 326, 962-964.	6.0	166
7	INTERSTELLAR GAS FLOW PARAMETERS DERIVED FROM INTERSTELLAR BOUNDARY EXPLORER-Lo OBSERVATIONS IN 2009 AND 2010: ANALYTICAL ANALYSIS. <i>Astrophysical Journal, Supplement Series</i> , 2012, 198, 11.	3.0	160
8	SEPARATION OF THE INTERSTELLAR BOUNDARY EXPLORER RIBBON FROM GLOBALLY DISTRIBUTED ENERGETIC NEUTRAL ATOM FLUX. <i>Astrophysical Journal</i> , 2011, 731, 56.	1.6	153
9	NEUTRAL INTERSTELLAR HELIUM PARAMETERS BASED ON IBEX-Lo OBSERVATIONS AND TEST PARTICLE CALCULATIONS. <i>Astrophysical Journal, Supplement Series</i> , 2012, 198, 12.	3.0	145
10	Quasi-perpendicular Shock Structure and Processes. <i>Space Science Reviews</i> , 2005, 118, 161-203.	3.7	144
11	Direct Observations of Interstellar H, He, and O by the Interstellar Boundary Explorer. <i>Science</i> , 2009, 326, 969-971.	6.0	135
12	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	129
13	Quasi-parallel Shock Structure and Processes. <i>Space Science Reviews</i> , 2005, 118, 205-222.	3.7	119
14	THE FIRST THREE YEARS OF IBEX OBSERVATIONS AND OUR EVOLVING HELIOSPHERE. <i>Astrophysical Journal, Supplement Series</i> , 2012, 203, 1.	3.0	114
15	FAST observations of ion solitary waves. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	107
16	Global Anisotropies in TeV Cosmic Rays Related to the Sun's Local Galactic Environment from IBEX. <i>Science</i> , 2014, 343, 988-990.	6.0	98
17	SEPARATION OF THE RIBBON FROM GLOBALLY DISTRIBUTED ENERGETIC NEUTRAL ATOM FLUX USING THE FIRST FIVE YEARS OF IBEX OBSERVATIONS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 215, 13.	3.0	97
18	WARMER LOCAL INTERSTELLAR MEDIUM: A POSSIBLE RESOLUTION OF THE ULYSSES-IBEX ENIGMA. <i>Astrophysical Journal</i> , 2015, 801, 28.	1.6	90

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19	<i>IBEX</i> : THE FIRST FIVE YEARS (2009-2013). <i>Astrophysical Journal, Supplement Series</i> , 2014, 213, 20.	3.0	89
20	Seven Years of Imaging the Global Heliosphere with IBEX. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 41.	3.0	79
21	INTERSTELLAR NEUTRAL HELIUM IN THE HELIOSPHERE FROM IBEX OBSERVATIONS. IV. FLOW VECTOR, MACH NUMBER, AND ABUNDANCE OF THE WARM BREEZE. <i>Astrophysical Journal, Supplement Series</i> , 2016, 223, 25.	3.0	71
22	Implications of solar wind suprathermal tails for IBEX ENA images of the heliosheath. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	67
23	Decades-Long Changes of the Interstellar Wind Through Our Solar System. <i>Science</i> , 2013, 341, 1080-1082.	6.0	63
24	LOCAL INTERSTELLAR NEUTRAL HYDROGEN SAMPLED IN SITU BY <i>IBEX</i>. <i>Astrophysical Journal, Supplement Series</i> , 2012, 198, 14.	3.0	59
25	SOLAR RADIATION PRESSURE AND LOCAL INTERSTELLAR MEDIUM FLOW PARAMETERS FROM<i>INTERSTELLAR BOUNDARY EXPLORER</i>LOW ENERGY HYDROGEN MEASUREMENTS. <i>Astrophysical Journal</i> , 2013, 775, 86.	1.6	57
26	AN ANALYTICAL MODEL OF INTERSTELLAR GAS IN THE HELIOSPHERE TAILORED TO <i>INTERSTELLAR BOUNDARY EXPLORER</i> OBSERVATIONS. <i>Astrophysical Journal, Supplement Series</i> , 2012, 198, 10.	3.0	54
27	LOW ENERGY NEUTRAL ATOMS FROM THE HELIOSHEATH. <i>Astrophysical Journal</i> , 2014, 784, 89.	1.6	53
28	Diagnosing the Neutral Interstellar Gas Flow at 1 AU with IBEX-Lo. <i>Space Science Reviews</i> , 2009, 146, 149-172.	3.7	46
29	HELIOSPHERIC NEUTRAL ATOM SPECTRA BETWEEN 0.01 AND 6 keV FROM<i>IBEX</i>. <i>Astrophysical Journal</i> , 2012, 754, 14.	1.6	46
30	Energyâ€dependent Charge States and Their Connection with Ion Abundances in Impulsive Solar Energetic Particle Events. <i>Astrophysical Journal</i> , 2008, 687, 623-634.	1.6	43
31	Physical Processes in the Outer Heliosphere. <i>Space Science Reviews</i> , 2009, 146, 275-294.	3.7	42
32	Temporal Evolution of the Solar Wind Bulk Velocity atâ€Solar Minimum by Correlating the STEREO A andâ€APLASTIC Measurements. <i>Solar Physics</i> , 2009, 256, 365-377.	1.0	37
33	Time Dependence of the IBEX Ribbon and the Globally Distributed Energetic Neutral Atom Flux Using the First 9 Years of Observations. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 1.	3.0	37
34	Interstellar Neutral Helium in the Heliosphere from IBEX Observations. VI. The He⁺ Density and the Ionization State in the Very Local Interstellar Matter. <i>Astrophysical Journal</i> , 2019, 882, 60.	1.6	35
35	Cluster Observes the High-Altitude CUSP Region. <i>Surveys in Geophysics</i> , 2005, 26, 135-175.	2.1	34
36	Interstellar Neutral Helium in the Heliosphere from IBEX Observations. V. Observations in IBEX-Lo ESA Steps 1, 2, and 3. <i>Astrophysical Journal</i> , 2018, 854, 119.	1.6	34

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37	THE Ne-TO-O ABUNDANCE RATIO OF THE INTERSTELLAR MEDIUM FROM IBEX-Lo OBSERVATIONS. <i>Astrophysical Journal</i> , 2014, 795, 97.	1.6	32
38	Energetic magnetospheric oxygen in the magnetosheath and its response to IMF orientation: Cluster observations. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	28
39	Observation of energy-dependent ionic charge states in impulsive solar energetic particle events. <i>Advances in Space Research</i> , 2006, 38, 493-497.	1.2	28
40	The Interstellar Boundary Explorer Science Operations Center. <i>Space Science Reviews</i> , 2009, 146, 207-234.	3.7	26
41	IBEX Backgrounds and Signal-to-Noise Ratio. <i>Space Science Reviews</i> , 2009, 146, 173-206.	3.7	26
42	Very Local Interstellar Medium Revealed by a Complete Solar Cycle of Interstellar Neutral Helium Observations with IBEX. <i>Astrophysical Journal, Supplement Series</i> , 2022, 259, 42.	3.0	25
43	The ion-optical prototype of the low energy neutral atom sensor of the Interstellar Boundary Explorer Mission (IBEX). <i>Review of Scientific Instruments</i> , 2007, 78, 124502.	0.6	23
44	In Situ Observations of Solar Wind Stream Interface Evolution. <i>Solar Physics</i> , 2009, 259, 323-344.	1.0	23
45	INTERSTELLAR FLOW LONGITUDE FROM THE SYMMETRY OF THE PICKUP ION CUTOFF AT 1 AU. <i>Astrophysical Journal</i> , 2015, 815, 20.	1.6	23
46	TRIANGULATION OF THE INTERSTELLAR MAGNETIC FIELD. <i>Astrophysical Journal Letters</i> , 2015, 813, L20.	3.0	20
47	PRECISION POINTING OF IBEX-Lo OBSERVATIONS. <i>Astrophysical Journal, Supplement Series</i> , 2012, 198, 9.	3.0	19
48	<title>Metalized polyimide filters for x-ray astronomy and other applications</title>. , 1997, 3113, 432.		18
49	THE SOLAR WIND AS A POSSIBLE SOURCE OF FAST TEMPORAL VARIATIONS OF THE HELIOSPHERIC RIBBON. <i>Astrophysical Journal</i> , 2013, 776, 109.	1.6	18
50	Radiation Pressure from Interstellar Hydrogen Observed by IBEX through Solar Cycle 24. <i>Astrophysical Journal</i> , 2019, 887, 217.	1.6	18
51	CAN IBEX IDENTIFY VARIATIONS IN THE GALACTIC ENVIRONMENT OF THE SUN USING ENERGETIC NEUTRAL ATOMS?. <i>Astrophysical Journal</i> , 2010, 719, 1984-1992.	1.6	16
52	Escape of O ⁺ through the distant tail plasma sheet. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	16
53	Science Opportunities from Observations of the Interstellar Neutral Gas with Adjustable Boresight Direction. <i>Astrophysical Journal, Supplement Series</i> , 2019, 245, 28.	3.0	15
54	Investigation of the source region of ionospheric oxygen outflow in the cleft/cusp using multi-spacecraft observations by CIS onboard Cluster. <i>Advances in Space Research</i> , 2004, 34, 2459-2464.	1.2	13

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55	Solar wind ion trends and signatures: STEREO PLASTIC observations approaching solar minimum. <i>Annales Geophysicae</i> , 2009, 27, 3909-3922.	0.6	12
56	Interstellar Neutral He Parameters from Crossing Parameter Tubes with the Interstellar Mapping and Acceleration Probe Informed by 10 yr of Interstellar Boundary Explorer Observations. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 7.	3.0	12
57	Development of the nano-dust analyzer (NDA) for detection and compositional analysis of nanometer-size dust particles originating in the inner heliosphere. <i>Review of Scientific Instruments</i> , 2014, 85, 035113.	0.6	10
58	Secondary Interstellar Oxygen in the Heliosphere: Numerical Modeling and Comparison with IBEX-Lo Data. <i>Astrophysical Journal</i> , 2017, 850, 119.	1.6	10
59	Inhomogeneity in the Local ISM and Its Relation to the Heliosphere. <i>Space Science Reviews</i> , 2022, 218, 16.	3.7	10
60	Effect of Rapid Changes of Solar Wind Conditions on the Pickup Ion Velocity Distribution. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6418-6437.	0.8	9
61	The Characterization of Secondary Interstellar Neutral Oxygen beyond the Heliopause: A Detailed Analysis of the IBEX-Lo Oxygen Observations. <i>Astrophysical Journal</i> , 2019, 880, 4.	1.6	9
62	Evidence for Mass- and Charge-dependent Acceleration of a Multiple-Component Seed Population by CME-driven Interplanetary Shocks Near 1 AU. <i>Astrophysical Journal</i> , 2008, 682, 690-696.	1.6	8
63	The IBEX Ribbon and the Thickness of the Inner Heliosheath. <i>Astrophysical Journal</i> , 2018, 861, 109.	1.6	8
64	NICE: an instrument for direct mass spectrometric measurement of interstellar neutral gas. <i>Measurement Science and Technology</i> , 2005, 16, 1667-1676.	1.4	7
65	Inner Source C ⁺ /O ⁺ Pickup Ions Produced by Solar Wind Recycling, Neutralization, Backscattering, Sputtering, and Sputtering-induced Recycling. <i>Astrophysical Journal</i> , 2018, 861, 98.	1.6	7
66	The free escape continuum of diffuse ions upstream of the Earth's quasi-parallel bow shock. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4425-4434.	0.8	6
67	The Pitch-angle Distributions of Suprathermal Ions near an Interplanetary Shock. <i>Astrophysical Journal Letters</i> , 2020, 888, L22.	3.0	6
68	Interstellar Mapping and Acceleration Probe (IMAP). <i>Journal of Physics: Conference Series</i> , 2016, 767, 012025.	0.3	5
69	A Consistent Scenario for the IBEX Ribbon, Anisotropies in TeV Cosmic Rays, and the Local Interstellar Medium. <i>ASTRA Proceedings</i> , 0, 2, 9-16.	0.0	5
70	Proton Enhancement and Decreased O ⁶⁺ ·H at the Heliospheric Current Sheet: Implications for the Origin of Slow Solar Wind. <i>AIP Conference Proceedings</i> , 2010, , .	0.3	4
71	Characteristics of Yohkoh X-ray flares and charge states of SEP Fe ions. <i>Advances in Space Research</i> , 2002, 30, 623-628.	1.2	2
72	Diagnostics of corotating interaction regions with the kinetic properties of iron ions as determined with STEREO/PLASTIC. <i>Annales Geophysicae</i> , 2010, 28, 491-497.	0.6	2

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73	Hybrid Simulations for Pickup Ion Distributions at the Termination Shock. AIP Conference Proceedings, 2010, , .	0.3	2
74	Anisotropies in TeV Cosmic Rays Related to the IBEX Ribbon. Journal of Physics: Conference Series, 2014, 531, 012010.	0.3	2
75	Anisotropies in TeV Cosmic Rays Related to the Local Interstellar Magnetic Field from the IBEX Ribbon. Journal of Physics: Conference Series, 2015, 577, 012023.	0.3	1
76	The Local Interstellar Magnetic Field Observed by Voyager 1 and IBEX. Journal of Physics: Conference Series, 2018, 1100, 012021.	0.3	1
77	Sources and acceleration efficiencies for energetic particles in the heliosphere. Plasma Physics and Controlled Fusion, 2006, 48, B239-B247.	0.9	0
78	Energetic neutral atom and interstellar flow observations with IBEX: Implications for the global heliosphere. AIP Conference Proceedings, 2016, , .	0.3	0
79	Cluster Observes the High-Altitude Cusp Region. , 2005, , 135-175.		0