

Maher A Dayeh

List of Publications by Year in descending order

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89
papers

2,438
citations

186265

28
h-index

223800

46
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92
all docs

92
docs citations

92
times ranked

1188
citing authors

#	ARTICLE	IF	CITATIONS
1	FIRST SKY MAP OF THE INNER HELIOSHEATH TEMPERATURE USING <i>IBEX</i> SPECTRA. <i>Astrophysical Journal</i> , 2011, 734, 1.	4.5	132
2	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	129
3	THE FIRST THREE YEARS OF <i>IBEX</i> OBSERVATIONS AND OUR EVOLVING HELIOSPHERE. <i>Astrophysical Journal</i> , Supplement Series, 2012, 203, 1.	7.7	114
4	Evolving outer heliosphere: Large-scale stability and time variations observed by the Interstellar Boundary Explorer. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	92
5	THE HELIOTAIL REVEALED BY THE <i>INTERSTELLAR BOUNDARY EXPLORER</i> . <i>Astrophysical Journal</i> , 2013, 771, 77.	4.5	90
6	<i>IBEX</i> : THE FIRST FIVE YEARS (2009-2013). <i>Astrophysical Journal</i> , Supplement Series, 2014, 213, 20.	7.7	89
7	Seven Years of Imaging the Global Heliosphere with <i>IBEX</i> . <i>Astrophysical Journal</i> , Supplement Series, 2017, 229, 41.	7.7	79
8	COMPOSITION AND SPECTRAL PROPERTIES OF THE 1 AU QUIET-TIME SUPRATHERMAL ION POPULATION DURING SOLAR CYCLE 23. <i>Astrophysical Journal</i> , 2009, 693, 1588-1600.	4.5	78
9	Earth-Moon-Mars Radiation Environment Module framework. <i>Space Weather</i> , 2010, 8, n/a-n/a.	3.7	62
10	Characterizing the dayside magnetosheath using energetic neutral atoms: <i>IBEX</i> and <i>THEMIS</i> observations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3126-3137.	2.4	59
11	Solar Cycle of Imaging the Global Heliosphere: Interstellar Boundary Explorer (<i>IBEX</i>) Observations from 2009–2019. <i>Astrophysical Journal</i> , Supplement Series, 2020, 248, 26.	7.7	58
12	SUPERPOSITION OF STOCHASTIC PROCESSES AND THE RESULTING PARTICLE DISTRIBUTIONS. <i>Astrophysical Journal</i> , 2010, 713, 1386-1392.	4.5	53
13	Neutral atom imaging of the magnetospheric cusps. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	53
14	LOW ENERGY NEUTRAL ATOMS FROM THE HELIOSHEATH. <i>Astrophysical Journal</i> , 2014, 784, 89.	4.5	53
15	Two Wide-Angle Imaging Neutral-Atom Spectrometers and Interstellar Boundary Explorer energetic neutral atom imaging of the 5 April 2010 substorm. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	51
16	Heliosphere Responds to a Large Solar Wind Intensification: Decisive Observations from <i>IBEX</i> . <i>Astrophysical Journal Letters</i> , 2018, 856, L10.	8.3	51
17	PICK-UP ION DISTRIBUTIONS AND THEIR INFLUENCE ON ENERGETIC NEUTRAL ATOM SPECTRAL CURVATURE. <i>Astrophysical Journal</i> , 2012, 751, 64.	4.5	49
18	ENERGETIC NEUTRAL ATOMS MEASURED BY THE <i>INTERSTELLAR BOUNDARY EXPLORER</i> (<i>IBEX</i>): EVIDENCE FOR MULTIPLE HELIOSHEATH POPULATIONS. <i>Astrophysical Journal</i> , 2014, 780, 98.	4.5	49

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19	GLOBAL NUMERICAL MODELING OF ENERGETIC PROTON ACCELERATION IN A CORONAL MASS EJECTION TRAVELING THROUGH THE SOLAR CORONA. <i>Astrophysical Journal</i> , 2013, 778, 43.	4.5	48
20	EFFECTS OF FAST AND SLOW SOLAR WIND ON THE ENERGETIC NEUTRAL ATOM (ENA) SPECTRA MEASURED BY THE <i>INTERSTELLAR BOUNDARY EXPLORER</i> (<i>IBEX</i>) AT THE HELIOSPHERIC POLES. <i>Astrophysical Journal</i> , 2012, 749, 50.	4.5	39
21	First <i>IBEX</i> observations of the terrestrial plasma sheet and a possible disconnection event. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	38
22	SPECTRAL PROPERTIES OF REGIONS AND STRUCTURES IN THE <i>INTERSTELLAR BOUNDARY EXPLORER</i> (<i>IBEX</i>) SKY MAPS. <i>Astrophysical Journal</i> , 2011, 734, 29.	4.5	38
23	COROTATING INTERACTION REGION ASSOCIATED SUPRATHERMAL HELIUM ION ENHANCEMENTS AT 1 AU: EVIDENCE FOR LOCAL ACCELERATION AT THE COMPRESSION REGION TRAILING EDGE. <i>Astrophysical Journal</i> , 2012, 749, 73.	4.5	37
24	Time Dependence of the <i>IBEX</i> 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.	7.7	37
25	SIMULATIONS OF A DYNAMIC SOLAR CYCLE AND ITS EFFECTS ON THE <i>INTERSTELLAR BOUNDARY EXPLORER</i> (<i>IBEX</i>) RIBBON AND GLOBALLY DISTRIBUTED ENERGETIC NEUTRAL ATOM FLUX. <i>Astrophysical Journal</i> , 2015, 804, 5.	4.5	35
26	SPECTRAL PROPERTIES OF LARGE GRADUAL SOLAR ENERGETIC PARTICLE EVENTS. II. SYSTEMATIC Q/M DEPENDENCE OF HEAVY ION SPECTRAL BREAKS. <i>Astrophysical Journal</i> , 2016, 828, 106.	4.5	34
27	SPECTRAL PROPERTIES OF ~ 0.5 -6 keV ENERGETIC NEUTRAL ATOMS MEASURED BY THE <i>INTERSTELLAR BOUNDARY EXPLORER</i> (<i>IBEX</i>) ALONG THE LINES OF SIGHT OF <i>VOYAGER</i> . <i>Astrophysical Journal Letters</i> , 2012, 749, L30.	8.3	30
28	SPECTRAL PROPERTIES OF LARGE GRADUAL SOLAR ENERGETIC PARTICLE EVENTS. I. FE, O, AND SEED MATERIAL. <i>Astrophysical Journal</i> , 2016, 816, 68.	4.5	29
29	Properties of Suprathermal-through-energetic He Ions Associated with Stream Interaction Regions Observed over the Parker Solar Probe's First Two Orbits. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 56.	7.7	29
30	Variability in the Position of the <i>IBEX</i> Ribbon over Nine Years: More Observational Evidence for a Secondary ENA Source. <i>Astrophysical Journal</i> , 2019, 879, 84.	4.5	28
31	Modeling the 2003 Halloween events with EMMREM: Energetic particles, radial gradients, and coupling to MHD. <i>Space Weather</i> , 2010, 8, n/a-n/a.	3.7	27
32	The Role of Pickup Ion Dynamics Outside of the Heliopause in the Limit of Weak Pitch Angle Scattering: Implications for the Source of the <i>IBEX</i> Ribbon. <i>Astrophysical Journal</i> , 2018, 855, 30.	4.5	25
33	A discrete mathematical model for the aggregation of β -Amyloid. <i>PLoS ONE</i> , 2018, 13, e0196402.	2.5	24
34	Expanding Global Features in the Outer Heliosphere. <i>Astrophysical Journal</i> , 2019, 872, 127.	4.5	24
35	Combined ~ 10 eV to ~ 344 MeV Particle Spectra and Pressures in the Heliosheath along the Voyager 2 Trajectory. <i>Astrophysical Journal Letters</i> , 2020, 905, L24.	8.3	24
36	Origin and Properties of Quiet-time 0.11 - 1.28 MeV Nucleon ~ 1 Heavy-ion Population Near 1 au. <i>Astrophysical Journal</i> , 2017, 835, 155.	4.5	23

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37	Strong Scattering of $\sim 1/4$ keV Pickup Ions in the Local Interstellar Magnetic Field Draped around Our Heliosphere: Implications for the IBEX Ribbon's Source and IMAP. <i>Astrophysical Journal</i> , 2019, 876, 92.	4.5	22
38	Imprint of the Sun's Evolving Polar Winds on IBEX Energetic Neutral Atom All-sky Observations of the Heliosphere. <i>Astrophysical Journal</i> , 2017, 846, 63.	4.5	20
39	Turbulence in the Local Interstellar Medium and the IBEX Ribbon. <i>Astrophysical Journal</i> , 2020, 888, 29.	4.5	20
40	Interplanetary magnetic field dependence of the suprathermal energetic neutral atoms originated in subsolar magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 964-972.	2.4	19
41	Source Population and Acceleration Location of Suprathermal Heavy Ions in Corotating Interaction Regions. <i>Astrophysical Journal</i> , 2017, 838, 23.	4.5	19
42	Modeling proton intensity gradients and radiation dose equivalents in the inner heliosphere using EMMREM: May 2003 solar events. <i>Space Weather</i> , 2010, 8, n/a-n/a.	3.7	18
43	Heliosheath Proton Distribution in the Plasma Reference Frame. <i>Astrophysical Journal, Supplement Series</i> , 2021, 252, 26.	7.7	18
44	Modeling transport of energetic particles in corotating interaction regions: A case study. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 77-92.	2.4	17
45	SPECTRAL EVOLUTION OF ENERGETIC NEUTRAL ATOM EMISSIONS AT THE HELIOSPHERIC POLES AS MEASURED BY <i>IBEX</i> DURING ITS FIRST THREE YEARS. <i>Astrophysical Journal</i> , 2014, 797, 57.	4.5	16
46	Imaging the development of the cold dense plasma sheet. <i>Geophysical Research Letters</i> , 2015, 42, 7867-7873.	4.0	15
47	Temperature in Solar Sources of ^{3}He -rich Solar Energetic Particles and Relation to Ion Abundances. <i>Astrophysical Journal</i> , 2021, 908, 243.	4.5	15
48	Turbulent Acceleration of Interstellar Pickup Ions at the Heliospheric Termination Shock Forms the Global ENA Spectrum. <i>Astrophysical Journal Letters</i> , 2021, 916, L21.	8.3	15
49	Shape of the terrestrial plasma sheet in the near-Earth magnetospheric tail as imaged by the Interstellar Boundary Explorer. <i>Geophysical Research Letters</i> , 2015, 42, 2115-2122.	4.0	14
50	Neutral Atom Imaging of the Solar Wind-Magnetosphere-Exosphere Interaction Near the Subsolar Magnetopause. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089362.	4.0	14
51	Signature of a Heliotail Organized by the Solar Magnetic Field and the Role of Nonideal Processes in Modeled IBEX ENA Maps: A Comparison of the BU and Moscow MHD Models. <i>Astrophysical Journal</i> , 2021, 921, 164.	4.5	14
52	HEMISPHERIC ASYMMETRIES IN THE POLAR SOLAR WIND OBSERVED BY <i>ULYSSES</i> NEAR THE MINIMA OF SOLAR CYCLES 22 AND 23. <i>Astrophysical Journal</i> , 2013, 768, 160.	4.5	13
53	Spectral Properties and Abundances of Suprathermal Heavy Ions in Compression Regions near 1 au. <i>Astrophysical Journal</i> , 2019, 876, 88.	4.5	13
54	EXPLORING THE TIME DISPERSION OF THE <i>IBEX</i> -HI ENERGETIC NEUTRAL ATOM SPECTRA AT THE ECLIPTIC POLES. <i>Astrophysical Journal Letters</i> , 2012, 749, L41.	8.3	12

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55	First images of thunder: Acoustic imaging of triggered lightning. <i>Geophysical Research Letters</i> , 2015, 42, 6051-6057.	4.0	12
56	Early-stage Solar Energetic Particle Acceleration by Coronal Mass Ejection-driven Shocks with Realistic Seed Spectra. I. Low Corona. <i>Astrophysical Journal</i> , 2019, 871, 65.	4.5	12
57	Temporal Evolution of the Latitude and Energy Dependence of the Energetic Neutral Atom Spectral Indices Measured by the Interstellar Boundary Explorer (IBEX) Over the First Nine Years. <i>Astrophysical Journal</i> , 2019, 875, 91.	4.5	12
58	HELIUM ION ANISOTROPIES IN COROTATING INTERACTION REGIONS AT 1 AU. <i>Astrophysical Journal Letters</i> , 2012, 754, L30.	8.3	11
59	Next-generation solid-state detectors for charged particle spectroscopy. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6075-6091.	2.4	11
60	IBEX Ribbon Separation Using Spherical Harmonic Decomposition of the Globally Distributed Flux. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 6.	7.7	11
61	LATITUDINAL AND ENERGY DEPENDENCE OF ENERGETIC NEUTRAL ATOM SPECTRAL INDICES MEASURED BY THE INTERSTELLAR BOUNDARY EXPLORER. <i>Astrophysical Journal</i> , 2015, 802, 100.	4.5	10
62	MULTI-SPACECRAFT ANALYSIS OF ENERGETIC HEAVY ION AND INTERPLANETARY SHOCK PROPERTIES IN ENERGETIC STORM PARTICLE EVENTS NEAR 1 au. <i>Astrophysical Journal</i> , 2016, 831, 153.	4.5	10
63	Asymmetric Structure of the Solar Wind and Heliosphere from IBEX Observations. <i>Astrophysical Journal</i> , 2020, 894, 13.	4.5	10
64	Effects of aerosols on lightning activity over the Arabian Peninsula. <i>Atmospheric Research</i> , 2021, 261, 105723.	4.1	10
65	Avalanche Photodiode Arrays Enable Large-Area Measurements of Medium-Energy Electrons. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 2533-2537.	2.0	9
66	Time-dependent estimates of organ dose and dose equivalent rates for human crews in deep space from the 26 October 2003 solar energetic particle event (Halloween event) using the Earth-Moon-Mars Radiation Environment Module. <i>Space Weather</i> , 2010, 8, n/a-n/a.	3.7	9
67	What causes the variability in the properties of energetic storm particle (ESP) events?. <i>Journal of Physics: Conference Series</i> , 2018, 1100, 012008.	0.4	9
68	Energetic Neutral Atom Fluxes from the Heliosheath: Constraints from in situ Measurements and Models. <i>Astrophysical Journal Letters</i> , 2021, 915, L26.	8.3	9
69	The IBEX Ribbon and the Thickness of the Inner Heliosheath. <i>Astrophysical Journal</i> , 2018, 861, 109.	4.5	8
70	Distance to the Energetic Neutral Hydrogen Source from the Heliotail. <i>Astrophysical Journal</i> , 2020, 897, 138.	4.5	8
71	Estimation of Turbulent Heating of Solar Wind Protons at 1 au. <i>Astrophysical Journal</i> , 2020, 905, 137.	4.5	8
72	LATITUDE, ENERGY, AND TIME VARIATIONS IN THE ENERGETIC NEUTRAL ATOM SPECTRAL INDICES MEASURED BY THE INTERSTELLAR BOUNDARY EXPLORER (IBEX). <i>Astrophysical Journal</i> , 2016, 832, 116.	4.5	7

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73	Effects of the June 2018 Global Dust Storm on the Atmospheric Composition of the Martian Upper Atmosphere as Observed by MAVEN. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006868.	3.6	7
74	Breathing of the Heliosphere. <i>Astrophysical Journal</i> , 2021, 922, 250.	4.5	7
75	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.	2.4	6
76	Dependence of the IBEX Ribbon Geometry on Pitch-Angle Scattering outside the Heliopause. <i>Astrophysical Journal</i> , 2021, 908, 35.	4.5	6
77	Terrestrial Energetic Neutral Atom Emissions and the Ground-Based Geomagnetic Indices: Implications From IBEX Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8761-8777.	2.4	5
78	Modeling the East-West Asymmetry of Energetic Particle Fluence in Large Solar Energetic Particle Events Using the iPATH Model. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	5
79	First Global Images of Ion Energization in the Terrestrial Foreshock by the Interstellar Boundary Explorer. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088188.	4.0	4
80	Probing the Magnetosheath Boundaries Using Interstellar Boundary Explorer (IBEX) Orbital Encounters. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029278.	2.4	4
81	Experimental Analysis of Interacting HT22 Plasma Membrane Cholesterol and β -Amyloid. <i>Advances in Alzheimer's Disease</i> , 2017, 06, 75-96.	0.9	4
82	Thin carbon foil resistance to differential pressure. <i>Vacuum</i> , 2014, 107, 124-128.	3.5	2
83	UV-Grade Silicon Photomultipliers for Direct Counting of Low-Energy Electrons and Protons. <i>IEEE Transactions on Nuclear Science</i> , 2017, 64, 2733-2741.	2.0	2
84	Effects of Cholesterol in Stress-Related Neuronal Death—A Statistical Analysis Perspective. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2905.	4.1	2
85	Determining the Near-Instantaneous Curvature of Earth's Bow Shock Using Simultaneous IBEX and MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	2
86	Comparison of the Effects of Regional and Global Dust Storms on the Composition of the Ionized Species of the Martian Upper Atmosphere Using MAVEN. <i>Remote Sensing</i> , 2022, 14, 2594.	4.0	1
87	Estimates of Radiation Exposures for Human Crews in Deep Space from the January 15, 2005, Solar Energetic Particle Event Using the Earth-Moon-Mars Radiation Environment Module. <i>Nuclear Technology</i> , 2011, 175, 202-209.	1.2	0
88	APD Rise Time Measurements for 50–300-keV Ions. <i>IEEE Transactions on Nuclear Science</i> , 2018, 65, 1277-1284.	2.0	0
89	Effects of Magnetic Perturbation on Reconnection and Heating in the Solar Corona. <i>Astrophysical Journal</i> , 2020, 903, 95.	4.5	0