

Robert B Decker

List of Publications by Year in descending order

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59
papers

2,104
citations

331259

21
h-index

233125

45
g-index

59
all docs

59
docs citations

59
times ranked

883
citing authors

#	ARTICLE	IF	CITATIONS
1	Voyager 1 in the Foreshock, Termination Shock, and Heliosheath. <i>Science</i> , 2005, 309, 2020-2024.	6.0	405
2	Mediation of the solar wind termination shock by non-thermal ions. <i>Nature</i> , 2008, 454, 67-70.	13.7	221
3	Search for the Exit: Voyager 1 at Heliosphere's Border with the Galaxy. <i>Science</i> , 2013, 341, 144-147.	6.0	186
4	Zero outward flow velocity for plasma in a heliosheath transition layer. <i>Nature</i> , 2011, 474, 359-361.	13.7	120
5	Shock drift acceleration. <i>Geophysical Monograph Series</i> , 1985, , 271-285.	0.1	117
6	The bubble-like shape of the heliosphere observed by Voyager and Cassini. <i>Nature Astronomy</i> , 2017, 1, .	4.2	74
7	No meridional plasma flow in the heliosheath transition region. <i>Nature</i> , 2012, 489, 124-127.	13.7	70
8	PRECURSORS TO INTERSTELLAR SHOCKS OF SOLAR ORIGIN. <i>Astrophysical Journal</i> , 2015, 809, 121.	1.6	68
9	Energetic charged particle measurements from Voyager 2 at the heliopause and beyond. <i>Nature Astronomy</i> , 2019, 3, 997-1006.	4.2	59
10	The acceleration of charged particles in interplanetary shock waves. <i>Space Science Reviews</i> , 1982, 32, 185.	3.7	56
11	An energetic particle-mediated termination shock observed by Voyager 2. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	43
12	Heliospheric energetic particle observations during the October-November 2003 events. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	42
13	<i>VOYAGER 2</i> OBSERVATIONS OF PLASMAS AND FLOWS OUT TO 104 AU. <i>Astrophysical Journal</i> , 2014, 792, 126.	1.6	40
14	ACE Observations of Energetic Particles Associated with Transient Interplanetary Shocks. <i>AIP Conference Proceedings</i> , 2003, , .	0.3	39
15	The energetic storm particle event of October 20, 1989. <i>Geophysical Research Letters</i> , 2002, 29, 31-1-31-4.	1.5	37
16	High-Resolution Measurements of the Cross-Shock Potential, Ion Reflection, and Electron Heating at an Interplanetary Shock by MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3961-3978.	0.8	36
17	A THREE-COORDINATE SYSTEM (ECLIPTIC, GALACTIC, ISMF) SPECTRAL ANALYSIS OF HELIOSPHERIC ENA EMISSIONS USING <i>CASSINI</i> /INCA MEASUREMENTS. <i>Astrophysical Journal</i> , 2013, 778, 40.	1.6	34
18	Plasma Pressures in the Heliosheath From Cassini ENA and Voyager 2 Measurements: Validation by the Voyager 2 Heliopause Crossing. <i>Geophysical Research Letters</i> , 2019, 46, 7911-7919.	1.5	29

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19	Low-energy particle response to CMEs during the Ulysses solar maximum northern polar passage. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	28
20	Plasma flows in the heliosheath. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	26
21	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.	3.0	24
22	Composition of Interstellar Neutrals and the Origin of Anomalous Cosmic Rays. <i>Space Science Reviews</i> , 2009, 143, 163-175.	3.7	21
23	The Structure of the Global Heliosphere as Seen by In-Situ Ions from the Voyagers and Remotely Sensed ENAs from Cassini. <i>Space Science Reviews</i> , 2022, 218, 1.	3.7	21
24	Corotating Particle Events. <i>Space Science Reviews</i> , 1998, 83, 215-258.	3.7	20
25	Heliospheric energetic particle observations by the Cassini spacecraft: Correlation with 1 AU observations. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	19
26	Constraining the pickup ion abundance and temperature through the multifluid reconstruction of the Voyager 2 termination shock crossing. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7130-7153.	0.8	19
27	Low-energy ions near the termination shock. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	18
28	Major solar energetic particle events of solar cycles 22 and 23: Intensities above the streaming limit. <i>Space Weather</i> , 2008, 6, .	1.3	18
29	Pitch angle distributions of energetic particles near the heliospheric termination shock. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	17
30	Ion injection and shock acceleration in the outer heliosphere. <i>Geophysical Research Letters</i> , 2000, 27, 509-512.	1.5	16
31	Major Solar Energetic Particle Events of Solar Cycles 22 and 23: Intensities Close to the Streaming Limit. <i>Solar Physics</i> , 2009, 260, 407-421.	1.0	16
32	Ions Measured by Voyager 1 Outside the Heliopause to ~ 28 au and Implications Thereof. <i>Astrophysical Journal</i> , 2021, 917, 42.	1.6	15
33	Influence of Solar Disturbances on Galactic Cosmic Rays in the Solar Wind, Heliosheath, and Local Interstellar Medium: Advanced Composition Explorer, New Horizons, and Voyager Observations. <i>Astrophysical Journal</i> , 2020, 905, 69.	1.6	15
34	Cassini ENA images of the heliosheath and Voyager ϵ -ground truth: Thickness of the heliosheath. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	11
35	Response times of Cassini/INCA > 5.2 keV ENAs and Voyager ions in the heliosheath over the solar cycle. <i>Journal of Physics: Conference Series</i> , 2017, 900, 012005.	0.3	11
36	Energetic ion composition in Saturn's magnetosphere revisited. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	10

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37	Influence of large-scale interplanetary structures on energetic particle propagation: September 2004 event at Ulysses and ACE. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	10
38	Interplanetary protons ($<i>E</i>_p</i> \hat{=} 1 MeV) 1973-1986 and Out to 22.4 AU. Geophysical Research Letters, 1988, 15, 237-240.$	1.5	9
39	Growth and evolution of a plasmoid associated with a small, isolated substorm: IMP 8 and GEOTAIL measurements in the magnetotail. <i>Geophysical Research Letters</i> , 1995, 22, 3011-3014.	1.5	9
40	ENA ($>$ 5 keV) Images from Cassini and Voyager - ground truth - Suprathermal Pressure in the Heliosheath. <i>AIP Conference Proceedings</i> , 2010, , .	0.3	9
41	Estimation of solar energetic proton mission-integrated fluences and peak intensities for missions traveling close to the Sun. <i>Space Weather</i> , 2011, 9, .	1.3	9
42	Particle Acceleration at the Termination Shock: Voyager 1 and 2 Observations. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	8
43	Heliospheric Maps from Cassini INCA Early in the Cruise to Saturn. <i>Astrophysical Journal Letters</i> , 2020, 902, L45.	3.0	7
44	Heliosheath particles, anomalous cosmic rays and a possible - source of energetic ions. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	6
45	Voyager 2 High Energy Ions Near the Outward Moving Termination Shock. , 2010, , .		4
46	Higher-energy plasma ions found near the termination shock: Analyses of Voyager 2 data in the heliosheath and in the outer heliosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	4
47	Pluto's Interaction With Energetic Heliospheric Ions. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7413-7424.	0.8	4
48	Solar energetic particle propagation in 1997-99: Observations from ACE, Ulysses, and Voyagers 1 and 2. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	3
49	Foreshock, termination shock, and heliosheath: Voyager 1/2 observations of structure and turbulence. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	3
50	Termination Shock and Heliosheath: Energetic Ion Variations Measured at Voyagers 1 and 2. , 2009, , .		3
51	Shock drift acceleration. <i>AIP Conference Proceedings</i> , 1992, , .	0.3	2
52	Energetic Particle Observations Near the Termination Shock. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	2
53	Pitch Angle Distributions of 0.6-1.8 MeV Protons Observed by Voyager 1 at 85-87 AU. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	2
54	The Energetic Storm Particle Event on 2003 October 24: A Test of Diffusive Shock Acceleration Theory. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	2

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55	Low-energy particle acceleration and compression at the termination shock and in the heliosheath. AIP Conference Proceedings, 2008, , .	0.3	2
56	Solar Energetic Particle Intensities Above the Streaming Limit. AIP Conference Proceedings, 2008, , .	0.3	2
57	Observations of Particle Acceleration at Interplanetary Shocks. , 2009, , .		2
58	Plasma waves associated with the termination shock. AIP Conference Proceedings, 2006, , .	0.3	1
59	Reply [to "Comment on "Interplanetary protons (EP ≥ 1 MeV) 1973-1986 and out to 22.4 AU"]. Geophysical Research Letters, 1988, 15, 842-842.	1.5	0