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	The Structure of the Global Heliosphere as Seen by In-Situ Ions from the Voyagers and Remotely Sensed ENAs from Cassini. Space Science Reviews, 2022, 218, 1.	3.7	21
2	Ions Measured by Voyager 1 Outside the Heliopause to ~28 au and Implications Thereof. Astrophysical Journal, 2021, 917, 42.	1.6	15
3	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. Astrophysical Journal, 2020, 905, 69.	1.6	15
4	Combined â^¼10 eV to â^¼344 MeV Particle Spectra and Pressures in the Heliosheath along the Voyager 2 Trajectory. Astrophysical Journal Letters, 2020, 905, L24.	3.0	24
5	Heliospheric Maps from Cassini INCA Early in the Cruise to Saturn. Astrophysical Journal Letters, 2020, 902, L45.	3.0	7
6	Energetic charged particle measurements from Voyager 2 at the heliopause and beyond. Nature Astronomy, 2019, 3, 997-1006.	4.2	59
7	Plasma Pressures in the Heliosheath From Cassini ENA and Voyager 2 Measurements: Validation by the Voyager 2 Heliopause Crossing. Geophysical Research Letters, 2019, 46, 7911-7919.	1.5	29
8	Highâ€Resolution Measurements of the Crossâ€Shock Potential, Ion Reflection, and Electron Heating at an Interplanetary Shock by MMS. Journal of Geophysical Research: Space Physics, 2019, 124, 3961-3978.	0.8	36
9	Pluto's Interaction With Energetic Heliospheric Ions. Journal of Geophysical Research: Space Physics, 2019, 124, 7413-7424.	0.8	4
10	The bubble-like shape of the heliosphere observed by Voyager and Cassini. Nature Astronomy, 2017, 1, .	4.2	74
11	Response times of Cassini/INCA > 5.2 keV ENAs and Voyager ions in the heliosheath over the solar cycle. Journal of Physics: Conference Series, 2017, 900, 012005.	0.3	11
12	Constraining the pickup ion abundance and temperature through the multifluid reconstruction of the Voyager 2 termination shock crossing. Journal of Geophysical Research: Space Physics, 2015, 120, 7130-7153.	0.8	19
13	PRECURSORS TO INTERSTELLAR SHOCKS OF SOLAR ORIGIN. Astrophysical Journal, 2015, 809, 121.	1.6	68
14	VOYAGER 2OBSERVATIONS OF PLASMAS AND FLOWS OUT TO 104 AU. Astrophysical Journal, 2014, 792, 126.	1.6	40
15	Search for the Exit: Voyager 1 at Heliosphereâ€™s Border with the Galaxy. Science, 2013, 341, 144-147.	6.0	186
16	A THREE-COORDINATE SYSTEM (ECLIPTIC, GALACTIC, ISMF) SPECTRAL ANALYSIS OF HELIOSPHERIC ENA EMISSIONS USINGCASSINI/INCA MEASUREMENTS. Astrophysical Journal, 2013, 778, 40.	1.6	34
17	No meridional plasma flow in the heliosheath transition region. Nature, 2012, 489, 124-127.	13.7	70
18	Cassini ENA images of the heliosheath and Voyager â€œground truthâ€: Thickness of the heliosheath. AIP Conference Proceedings, 2012, , .	0.3	11

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19	Estimation of solar energetic proton missionâ€integrated fluences and peak intensities for missions traveling close to the Sun. Space Weather, 2011, 9, .	1.3	9
20	Zero outward flow velocity for plasma in a heliosheath transition layer. Nature, 2011, 474, 359-361.	13.7	120
21	Voyager 2 High Energy Ions Near the Outward Moving Termination Shock. , 2010, , .		4
22	ENA (E>5 keV) Images from Cassini and Voyager â€œground truthâ€• Suprathermal Pressure in the Heliosheath. AIP Conference Proceedings, 2010, , .	0.3	9
23	Higherâ€energy plasma ions found near the termination shock: Analyses of Voyager 2 data in the heliosheath and in the outer heliosphere. Journal of Geophysical Research, 2010, 115, .	3.3	4
24	Observations of Particle Acceleration at Interplanetary Shocks. , 2009, , .		2
25	Termination Shock and Heliosheath: Energetic Ion Variations Measured at Voyagers 1 and 2. , 2009, , .		3
26	Major Solar Energetic Particle Events of Solar Cycles 22 and 23: Intensities Close to the Streaming Limit. Solar Physics, 2009, 260, 407-421.	1.0	16
27	Composition of Interstellar Neutrals and the Origin ofÂAnomalous Cosmic Rays. Space Science Reviews, 2009, 143, 163-175.	3.7	21
28	Plasma flows in the heliosheath. Geophysical Research Letters, 2009, 36, .	1.5	26
29	An energeticâ€particleâ€mediated termination shock observed by Voyager 2. Geophysical Research Letters, 2009, 36, .	1.5	43
30	Mediation of the solar wind termination shock by non-thermal ions. Nature, 2008, 454, 67-70.	13.7	221
31	Influence of largeâ€scale interplanetary structures on energetic particle propagation: September 2004 event at Ulysses and ACE. Journal of Geophysical Research, 2008, 113, .	3.3	10
32	Pitch angle distributions of energetic particles near the heliospheric termination shock. Journal of Geophysical Research, 2008, 113, .	3.3	17
33	Major solar energetic particle events of solar cycles 22 and 23: Intensities above the streaming limit. Space Weather, 2008, 6, .	1.3	18
34	Particle Acceleration at the Termination Shock: Voyager 1 and 2 Observations. AIP Conference Proceedings, 2008, , .	0.3	8
35	Low-energy particle acceleration and compression at the termination shock and in the heliosheath. AIP Conference Proceedings, 2008, , .	0.3	2
36	Solar Energetic Particle Intensities Above the Streaming Limit. AIP Conference Proceedings, 2008, , .	0.3	2

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37	Foreshock, termination shock, and heliosheath: Voyager 1/2 observations of structure and turbulence. AIP Conference Proceedings, 2007, , .	0.3	3
38	Plasma waves associated with the termination shock. AIP Conference Proceedings, 2006, , .	0.3	1
39	Low-energy ions near the termination shock. AIP Conference Proceedings, 2006, , .	0.3	18
40	Heliosheath particles, anomalous cosmic rays and a possible â€œthird sourceâ€•of energetic ions. AIP Conference Proceedings, 2006, , .	0.3	6
41	The Energetic Storm Particle Event on 2003 October 24: A Test of Diffusive Shock Acceleration Theory. AIP Conference Proceedings, 2005, , .	0.3	2
42	Voyager 1 in the Foreshock, Termination Shock, and Heliosheath. Science, 2005, 309, 2020-2024.	6.0	405
43	Heliospheric energetic particle observations during the October-November 2003 events. Journal of Geophysical Research, 2005, 110, .	3.3	42
44	Energetic Particle Observations Near the Termination Shock. AIP Conference Proceedings, 2004, , .	0.3	2
45	Pitch Angle Distributions of 0.6â€“1.8 MeV Protons Observed by Voyager 1 at 85â€“87 AU. AIP Conference Proceedings, 2004, , .	0.3	2
46	Energetic ion composition in Saturn's magnetosphere revisited. Geophysical Research Letters, 2004, 31, .	1.5	10
47	Low-energy particle response to CMEs during the Ulysses solar maximum northern polar passage. Journal of Geophysical Research, 2004, 109, .	3.3	28
48	Heliospheric energetic particle observations by the Cassini spacecraft: Correlation with 1 AU observations. Journal of Geophysical Research, 2004, 109, .	3.3	19
49	ACE Observations of Energetic Particles Associated with Transient Interplanetary Shocks. AIP Conference Proceedings, 2003, , .	0.3	39
50	The energetic storm particle event of October 20, 1989. Geophysical Research Letters, 2002, 29, 31-1-31-4.	1.5	37
51	Solar energetic particle propagation in 1997â€“99: Observations from ACE, Ulysses, and Voyagers 1 and 2. AIP Conference Proceedings, 2000, , .	0.3	3
52	Ion injection and shock acceleration in the outer heliosphere. Geophysical Research Letters, 2000, 27, 509-512.	1.5	16
53	Corotating Particle Events. Space Science Reviews, 1998, 83, 215-258.	3.7	20
54	Growth and evolution of a plasmoid associated with a small, isolated substorm: IMP 8 and GEOTAIL measurements in the magnetotail. Geophysical Research Letters, 1995, 22, 3011-3014.	1.5	9

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55	Shock drift acceleration. AIP Conference Proceedings, 1992, , .	0.3	2
56	Interplanetary protons (E_p â‰ˆ 1 MeV) 1973â€“1986 and Out to 22.4 AU. Geophysical Research Letters, 1988, 15, 237-240.	1.5	9
57	Reply [to â€œ Comment on â€˜Interplanetary protons (EP â‰ˆ 1 MeV) 1973â€“1986 and out to 22.4 AUâ€™â€]. Geophysical Research Letters, 1988, 15, 842-842.	1.5	0
58	Shock drift acceleration. Geophysical Monograph Series, 1985, , 271-285.	0.1	117
59	The acceleration of charged particles in interplanetary shock waves. Space Science Reviews, 1982, 32, 185.	3.7	56