

Iver Cairns

List of Publications by Year in descending order

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306
papers

7,833
citations

61984
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67
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310
all docs

310
docs citations

310
times ranked

2880
citing authors

#	ARTICLE	IF	CITATIONS
1	Interstellar pickup ions and quasi-perpendicular shocks: Implications for the termination shock and interplanetary shocks. Journal of Geophysical Research, 1996, 101, 457-477.	3.3	346
2	S/WAVES: The Radio and Plasma Wave Investigation on the STEREO Mission. Space Science Reviews, 2008, 136, 487-528.	8.1	313
3	Science with the Murchison Widefield Array. Publications of the Astronomical Society of Australia, 2013, 30, .	3.4	260
4	The Phase II Murchison Widefield Array: Design overview. Publications of the Astronomical Society of Australia, 2018, 35, .	3.4	140
5	Clumpy Langmuir waves in type III radio sources - Comparison of stochastic-growth theory with observations. Astrophysical Journal, 1993, 407, 790.	4.5	123
6	Title is missing!. , 1998, 181, 363-394.		121
7	Dynamics of Langmuir and ion-sound waves in type III solar radio sources. Astrophysical Journal, 1993, 408, 720.	4.5	109
8	Dynamics and efficiency of type III solar radio emission. Astrophysical Journal, 1994, 422, 870.	4.5	94
9	A theory for the $2\pi f_{pe}$ radiation upstream of the Earth's bow shock. Journal of Geophysical Research, 1985, 90, 6637-6640.	3.3	91
10	First Plasma Wave Observations at Neptune. Science, 1989, 246, 1494-1498.	12.6	91
11	Whistlers in Neptune's magnetosphere: Evidence of atmospheric lightning. Journal of Geophysical Research, 1990, 95, 20967-20976.	3.3	91
12	The electron distribution function upstream from the Earth's bow shock. Journal of Geophysical Research, 1987, 92, 2315-2327.	3.3	86
13	Eigenmode Structure in Solar-Wind Langmuir Waves. Physical Review Letters, 2008, 101, 051101.	7.8	84
14	Theory of type II radio emission from the foreshock of an interplanetary shock. Journal of Geophysical Research, 2001, 106, 25041-25051.	3.3	83
15	Strong Evidence for Stochastic Growth of Langmuir-like Waves in Earth's Foreshock. Physical Review Letters, 1999, 82, 3066-3069.	7.8	81
16	HELIOSPHERIC ASYMMETRIES AND 2-3 kHz RADIO EMISSION UNDER STRONG INTERSTELLAR MAGNETIC FIELD CONDITIONS. Astrophysical Journal, 2009, 695, L31-L34.	4.5	77
17	Type II Solar Radio Bursts: Theory and Space Weather Implications. Space Science Reviews, 2003, 107, 27-34.	8.1	74
18	Second harmonic plasma emission involving ion sound waves. Journal of Plasma Physics, 1987, 38, 179-198.	2.1	72

#	ARTICLE	IF	CITATIONS
19	Fundamental plasma emission involving ion sound waves. Journal of Plasma Physics, 1987, 38, 169-178.	2.1	70
20	Title is missing!. , 1998, 181, 395-428.		70
21	New waves at multiples of the plasma frequency upstream of the Earth's bow shock. Journal of Geophysical Research, 1986, 91, 2975-2988.	3.3	67
22	Unusual locations of Earth's bow shock on September 24-25, 1987: Mach number effects. Journal of Geophysical Research, 1995, 100, 47.	3.3	65
23	Electron acceleration by lower hybrid waves in magnetic reconnection regions. Physics of Plasmas, 2005, 12, 102110.	1.9	64
24	Herringbone bursts associated with type II solar radio emission. Solar Physics, 1987, 111, 365-383.	2.5	63
25	Theory for low-frequency modulated Langmuir wave packets. Geophysical Research Letters, 1992, 19, 2187-2190.	4.0	62
26	Turn-on of 2-3 kHz radiation beyond the heliopause. Geophysical Research Letters, 2002, 29, 47-1.	4.0	61
27	Real-time imaging of density ducts between the plasmasphere and ionosphere. Geophysical Research Letters, 2015, 42, 3707-3714.	4.0	61
28	Stochastic Growth Theory of Type III Solar Radio Emission. Astrophysical Journal, 1993, 418, 506.	4.5	57
29	Intrinsic Variability of the Vela Pulsar: Lognormal Statistics and Theoretical Implications. Astrophysical Journal, 2001, 563, L65-L68.	4.5	56
30	Theoretically predicted properties of type II radio emission from an interplanetary foreshock. Journal of Geophysical Research, 2003, 108, .	3.3	55
31	MHD simulations of Earth's bow shock at low Mach numbers: Standoff distances. Journal of Geophysical Research, 1995, 100, 17173.	3.3	54
32	Type II radio emission predictions: Sources of coronal and interplanetary spectral structure. Journal of Geophysical Research, 2005, 110, .	3.3	52
33	First test of stochastic growth theory for Langmuir waves in Earth's foreshock. Geophysical Research Letters, 1997, 24, 369-372.	4.0	51
34	Extraordinary-Mode Radiation Produced by Linear-Mode Conversion of Langmuir Waves. Physical Review Letters, 2007, 99, 015003.	7.8	51
35	A semiquantitative theory for the $2\omega_p$ radiation observed upstream from the Earth's bow shock. Journal of Geophysical Research, 1988, 93, 3958-3968.	3.3	48
36	Title is missing!. , 1998, 181, 429-437.		48

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37	Towards an MHD theory for the standoff distance of Earth's bow shock. Geophysical Research Letters, 1994, 21, 2781-2784.	4.0	47
38	Numerical Simulations of Type-III Solar Radio Bursts. Physical Review Letters, 2006, 96, 145005.	7.8	47
39	Simulations of coronal type III solar radio bursts: 1. Simulation model. Journal of Geophysical Research, 2008, 113, .	3.3	47
40	A theory for the Langmuir waves in the electron foreshock. Journal of Geophysical Research, 1987, 92, 2329-2342.	3.3	46
41	Dynamics of beam-driven Langmuir and ion-acoustic waves including electrostatic decay. Physics of Plasmas, 2003, 10, 2748-2762.	1.9	46
42	The $2\omega_p$ radiation from localized Langmuir waves. Journal of Geophysical Research, 2010, 115, .	3.3	46
43	The Challenges of Low-Frequency Radio Polarimetry: Lessons from the Murchison Widefield Array. Publications of the Astronomical Society of Australia, 2017, 34, .	3.4	45
44	Connection between ambient density fluctuations and clumpy Langmuir waves in type III radio sources. Astrophysical Journal, 1992, 387, L101.	4.5	45
45	EVIDENCE AGAINST THE OSCILLATING TWO-STREAM INSTABILITY AND SPATIAL COLLAPSE OF LANGMUIR WAVES IN SOLAR TYPE III RADIO BURSTS. Astrophysical Journal Letters, 2012, 753, L18.	8.3	44
46	Ion Acoustic Wave Frequencies and Onset Times during Type III Solar Radio Bursts. Astrophysical Journal, 1995, 453, 959.	4.5	44
47	Generalized Langmuir waves in magnetized kinetic plasmas. Physics of Plasmas, 2000, 7, 3167-3180.	1.9	42
48	Observations of the parametric decay instability of nonlinear magnetohydrodynamic waves. Physics of Plasmas, 1997, 4, 846-855.	1.9	41
49	Mode conversion of Langmuir to electromagnetic waves at magnetic field-aligned density inhomogeneities: Simulations, theory, and applications to the solar wind and the corona. Physics of Plasmas, 2008, 15, .	1.9	41
50	Electrostatic wave generation above and below the plasma frequency by electron beams. Physics of Fluids B, 1989, 1, 204-213.	1.7	40
51	The "injection problem" for quasiparallel shocks. Physics of Plasmas, 2001, 8, 4560-4576.	1.9	40
52	Multiple electron beam propagation and Langmuir wave generation in plasmas. Physics of Plasmas, 2002, 9, 2976-2987.	1.9	40
53	Theoretical modeling for the stereo mission. Space Science Reviews, 2008, 136, 565-604.	8.1	40
54	Type II solar radio bursts predicted by 3D MHD CME and kinetic radio emission simulations. Journal of Geophysical Research: Space Physics, 2014, 119, 69-87.	2.4	40

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55	Thermal and driven stochastic growth of Langmuir waves in the solar wind and Earth's foreshock. Geophysical Research Letters, 2000, 27, 61-64.	4.0	39
56	Intrinsic variability and field statistics for pulsars B1641-45 and B0950+08. Monthly Notices of the Royal Astronomical Society, 2004, 353, 270-286.	4.4	39
57	Properties and Interpretations of Giant Micropulses and Giant Pulses from Pulsars. Astrophysical Journal, 2004, 610, 948-955.	4.5	39
58	Type II radio bursts: 2. Application of the new analytic formalism. Journal of Geophysical Research, 2012, 117, .	3.3	39
59	Magnetic field orientation effects on the standoff distance of Earth's bow shock. Geophysical Research Letters, 1996, 23, 2883-2886.	4.0	38
60	Constraints on Nonlinear and Stochastic Growth Theories for Type III Solar Radio Bursts from the Corona to 1 AU. Astrophysical Journal, 1998, 509, 471-481.	4.5	38
61	Second harmonic electromagnetic emission via beam-driven Langmuir waves. Physics of Plasmas, 2005, 12, 012103-012103-15.	1.9	38
62	FIRST SPECTROSCOPIC IMAGING OBSERVATIONS OF THE SUN AT LOW RADIO FREQUENCIES WITH THE MURCHISON WIDEFIELD ARRAY PROTOTYPE. Astrophysical Journal Letters, 2011, 728, L27.	8.3	38
63	Low Altitude Solar Magnetic Reconnection, Type III Solar Radio Bursts, and X-ray Emissions. Scientific Reports, 2018, 8, 1676.	3.3	38
64	Fundamental and harmonic radiation in type III solar radio bursts. Solar Physics, 1994, 154, 335-360.	2.5	37
65	A Flare-type IV Burst Event from Proxima Centauri and Implications for Space Weather. Astrophysical Journal, 2020, 905, 23.	4.5	37
66	The Source of Free Energy for Type II Solar Radio Bursts. Publications of the Astronomical Society of Australia, 1986, 6, 444-446.	3.4	36
67	Arguments against modulational instabilities of Langmuir waves in Earth's foreshock. Journal of Geophysical Research, 1998, 103, 287-299.	3.3	36
68	Dependence of Langmuir wave polarization on electron beam speed in type III solar radio bursts. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	35
69	MHD simulations of Earth's bow shock: Interplanetary magnetic field orientation effects on shape and position. Journal of Geophysical Research, 2004, 109, .	3.3	34
70	Dynamics of fundamental electromagnetic emission via beam-driven Langmuir waves. Physics of Plasmas, 2005, 12, 052324.	1.9	34
71	Quasilinear calculation of Langmuir wave generation and beam propagation in the presence of density fluctuations. Physics of Plasmas, 2006, 13, 082305.	1.9	34
72	Solar, interplanetary, planetary, and related extra-solar system science for LOFAR. Planetary and Space Science, 2004, 52, 1423-1434.	1.7	33

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73	Numerical modeling of type III solar radio bursts in the inhomogeneous solar corona and interplanetary medium. <i>Physics of Plasmas</i> , 2006, 13, 092902.	1.9	33
74	DIRECT RADIO PROBING AND INTERPRETATION OF THE SUN'S PLASMA DENSITY PROFILE. <i>Astrophysical Journal</i> , 2009, 706, L265-L269.	4.5	33
75	Growth of electron plasma waves above and below ω_{pe} in the electron foreshock. <i>Journal of Geophysical Research</i> , 1988, 93, 7307-7317.	3.3	32
76	THE 2-3 kHz HELIOSPHERIC RADIATION, THE IBEX RIBBON, AND THE THREE-DIMENSIONAL SHAPE OF THE HELIOPAUSE. <i>Astrophysical Journal</i> , 2013, 771, 83.	4.5	32
77	strong Langmuir turbulence at Jupiter?. <i>Geophysical Research Letters</i> , 1992, 19, 1069-1072.	4.0	31
78	Maximum Langmuir fields in planetary foreshocks determined from the electrostatic decay threshold. <i>Geophysical Research Letters</i> , 1995, 22, 2657-2660.	4.0	31
79	Three-dimensional modeling of Earth's bow shock: Shock shape as a function of M_{∞} Mach number. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	31
80	Simulations of coronal type III solar radio bursts: 2. Dynamic spectrum for typical parameters. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	31
81	Electrostatic decay of Langmuir mode waves in type III solar radio bursts. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3968-3984.	2.4	31
82	Type III Solar Radio Burst Source Region Splitting due to a Quasi-separatrix Layer. <i>Astrophysical Journal</i> , 2017, 851, 151.	4.5	31
83	Electron temperature anisotropy instabilities: Whistler, electrostatic and z mode. <i>Journal of Geophysical Research</i> , 1999, 104, 19835-19842.	3.3	30
84	Role of collective effects in dominance of scattering off thermal ions over Langmuir wave decay: Analysis, simulations, and space applications. <i>Physics of Plasmas</i> , 2000, 7, 4901-4915.	1.9	30
85	Power spectrum analysis of ionospheric fluctuations with the Murchison Widefield Array. <i>Radio Science</i> , 2015, 50, 574-597.	1.6	30
86	Stochastic growth of waves over Earth's polar cap. <i>Journal of Geophysical Research</i> , 2001, 106, 29515-29529.	3.3	29
87	Mode Conversion and Reflection of Langmuir Waves in an Inhomogeneous Solar Wind. <i>Publications of the Astronomical Society of Australia</i> , 2001, 18, 355-360.	3.4	29
88	AUTOMATIC RECOGNITION OF CORONAL TYPE II RADIO BURSTS: THE AUTOMATED RADIO BURST IDENTIFICATION SYSTEM METHOD AND FIRST OBSERVATIONS. <i>Astrophysical Journal Letters</i> , 2010, 710, L58-L62.	8.3	29
89	Science with the Murchison Widefield Array: Phase I results and Phase II opportunities. <i>Publications of the Astronomical Society of Australia</i> , 2019, 36, .	3.4	29
90	Type II flare continuum in the corona and solar wind. <i>Journal of Geophysical Research</i> , 2000, 105, 18215-18223.	3.3	28

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91	EFFECTS OF SPATIAL VARIATIONS IN CORONAL TEMPERATURES ON TYPE III BURSTS. I. VARIATIONS IN ELECTRON TEMPERATURE. <i>Astrophysical Journal</i> , 2011, 730, 20.	4.5	28
92	Inconsistency of Ulysses millisecond Langmuir spikes with wave collapse in type III radio sources. <i>Geophysical Research Letters</i> , 1995, 22, 3437-3440.	4.0	27
93	Type II radio emission predictions: Multiple shock ripples and dynamic spectra. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	27
94	Beam-plasma interaction in randomly inhomogeneous plasmas and statistical properties of small-amplitude Langmuir waves in the solar wind and electron foreshock. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	27
95	Warm electromagnetic lower hybrid wave dispersion relation. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	27
96	Densities Probed by Coronal Type III Radio Burst Imaging. <i>Solar Physics</i> , 2018, 293, 1.	2.5	27
97	Outer heliospheric radio emissions: 1. Constraints on emission processes and the source region. <i>Journal of Geophysical Research</i> , 1992, 97, 6235-6244.	3.3	26
98	Automatic recognition of type III solar radio bursts: Automated Radio Burst Identification System method and first observations. <i>Space Weather</i> , 2009, 7, n/a-n/a.	3.7	26
99	A theory for the radiation at the third to fifth harmonics of the plasma frequency upstream from the Earth's bow shock. <i>Journal of Geophysical Research</i> , 1988, 93, 858-866.	3.3	25
100	Intrinsic variability and field statistics for the Vela pulsar – II. Systematics and single-component fits. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 343, 512-522.	4.4	25
101	Data-driven solar wind model and prediction of type II bursts. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	25
102	ANTENNA RADIATION NEAR THE LOCAL PLASMA FREQUENCY BY LANGMUIR WAVE EIGENMODES. <i>Astrophysical Journal</i> , 2012, 755, 45.	4.5	25
103	Plasma wave generation near the inner heliospheric shock. <i>Geophysical Research Letters</i> , 1991, 18, 357-360.	4.0	24
104	Stochastic growth of localized plasma waves. <i>Physics of Plasmas</i> , 2001, 8, 2394-2400.	1.9	24
105	Field distributions and shapes of Langmuir wave packets observed by Ulysses in an interplanetary type III burst source region. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	24
106	Confirmation of quasi-perpendicular shock reformation in two-dimensional hybrid simulations. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	24
107	Simulations of coronal type III solar radio bursts: 3. Effects of beam and coronal parameters. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	24
108	Coherent Radio Emissions Associated with Solar System Shocks. , 2011, , 267-338.		24

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109	Fundamental Emission of Type III Bursts Produced in Non-Maxwellian Coronal Plasmas with Kappa-Distributed Background Particles. Solar Physics, 2014, 289, 951-976.	2.5	24
110	The solar type II radio bursts of 7 March 2012: Detailed simulation analyses. Journal of Geophysical Research: Space Physics, 2014, 119, 6042-6061.	2.4	24
111	The Low-Frequency Solar Corona in Circular Polarization. Solar Physics, 2019, 294, 1.	2.5	24
112	Outer heliospheric radio emissions: 2. Foreshock source models. Journal of Geophysical Research, 1992, 97, 6245-6259.	3.3	23
113	Foreshock Langmuir waves for unusually constant solar wind conditions: Data and implications for foreshock structure. Journal of Geophysical Research, 1997, 102, 24249-24264.	3.3	23
114	Frequency Fine Structures of Type III Bursts Due to Localized Medium-Scale Density Structures Along Paths of Type III Beams. Solar Physics, 2012, 279, 173-196.	2.5	23
115	Unsupervised Generation of High Dynamic Range Solar Images: A Novel Algorithm for Self-calibration of Interferometry Data. Astrophysical Journal, 2019, 875, 97.	4.5	23
116	Electrostatic electron and ion cyclotron harmonic waves in Neptune's magnetosphere. Geophysical Research Letters, 1990, 17, 1657-1660.	4.0	22
117	DECIMETRIC TYPE III BURSTS: GENERATION AND PROPAGATION. Astrophysical Journal Letters, 2011, 738, L9.	8.3	22
118	EFFECTS OF SPATIAL VARIATIONS IN CORONAL ELECTRON AND ION TEMPERATURES ON TYPE III BURSTS. II. VARIATIONS IN ION TEMPERATURE. Astrophysical Journal, 2011, 730, 21.	4.5	22
119	Type III bursts produced by power law injected electrons in Maxwellian background coronal plasmas. Journal of Geophysical Research: Space Physics, 2013, 118, 4748-4759.	2.4	22
120	Control of plasma waves associated with the space shuttle by the angle between the orbiter's Velocity vector and the magnetic field. Journal of Geophysical Research, 1991, 96, 7591-7601.	3.3	21
121	The termination shock: Physical processes. Advances in Space Research, 1995, 15, 453-462.	2.6	21
122	Progress on Coronal, Interplanetary, Foreshock, and Outer Heliospheric Radio Emissions. Publications of the Astronomical Society of Australia, 2000, 17, 22-34.	3.4	21
123	Wave damping as a critical phenomenon. Physics of Plasmas, 2004, 11, 4649-4661.	1.9	21
124	Lower hybrid turbulence driven by parallel currents and associated electron energization. Physics of Plasmas, 2006, 13, 052104.	1.9	21
125	Heliospheric asymmetries due to the action of the interstellar magnetic field. Advances in Space Research, 2009, 44, 1337-1344.	2.6	21
126	Type II radio bursts: 1. New entirely analytic formalism for the electron beams, Langmuir waves, and radio emission. Journal of Geophysical Research, 2012, 117, .	3.3	21

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127	Quantitative prediction of type II solar radio emission from the Sun to 1 AU. Geophysical Research Letters, 2016, 43, 50-57.	4.0	21
128	A quantitative theory for terrestrial foreshock radio emissions. Geophysical Research Letters, 2002, 29, 2-1-2-4.	4.0	20
129	Electric field statistics and modulation characteristics of bursty Langmuir waves observed in the cusp. Journal of Geophysical Research, 2010, 115, .	3.3	20
130	Low-frequency radio emissions in the outer heliosphere. Journal of Geophysical Research, 1991, 96, 3801-3806.	3.3	19
131	Radio emissions and the heliospheric termination shock. Journal of Geophysical Research, 1994, 99, 14729.	3.3	19
132	Voyager spectra of density turbulence from 1 AU to the outer heliosphere. Journal of Geophysical Research, 2005, 110, .	3.3	19
133	Generation of downshifted oscillations in the electron foreshock: A loss-cone instability. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	19
134	Parallel and lower hybrid turbulence in low β^2 plasmas driven by strong parallel currents and the resulting parallel electron and perpendicular ion energization. Physics of Plasmas, 2007, 14, 012103.	1.9	19
135	Do Langmuir wave packets in the solar wind collapse?. Journal of Geophysical Research, 2012, 117, .	3.3	19
136	TYPE III RADIO BURSTS IN CORONAL PLASMAS WITH KAPPA PARTICLE DISTRIBUTIONS. Astrophysical Journal Letters, 2013, 763, L34.	8.3	19
137	Harmonic waves and sheath rectification in type III solar radio bursts. Journal of Geophysical Research: Space Physics, 2014, 119, 723-741.	2.4	19
138	MURCHISON WIDEFIELD ARRAY OBSERVATIONS OF ANOMALOUS VARIABILITY: A SERENDIPITOUS NIGHT-TIME DETECTION OF INTERPLANETARY SCINTILLATION. Astrophysical Journal Letters, 2015, 809, L12.	8.3	19
139	Angular Broadening: Effects of Nonzero, Spatially Varying Plasma Frequency between the Source and Observer. Astrophysical Journal, 1998, 506, 456-463.	4.5	19
140	Low-frequency radio emissions at Neptune. Geophysical Research Letters, 1990, 17, 1649-1652.	4.0	18
141	Stochastic growth of ion cyclotron and mirror waves in Earth's magnetosheath. Physical Review E, 2001, 64, 056408.	2.1	18
142	Analytic model for the electrostatic potential jump across collisionless shocks, with application to Earth's bow shock. Journal of Geophysical Research, 2002, 107, SSH 11-1-SSH 11-10.	3.3	18
143	New Regimes of Stochastic Wave Growth. Physical Review Letters, 2004, 93, 235003.	7.8	18
144	Theory for 2-3 kHz radiation from the outer heliosphere. Journal of Geophysical Research, 2004, 109, .	3.3	18

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145	Radial transport of radiation belt electrons in kinetic fieldâ€line resonances. Geophysical Research Letters, 2017, 44, 8140-8148.	4.0	18
146	Third and higher harmonic plasma emission due to Raman scattering. Journal of Plasma Physics, 1987, 38, 199-208.	2.1	17
147	Plasma waves observed in the near vicinity of the space shuttle. Journal of Geophysical Research, 1991, 96, 13913-13929.	3.3	17
148	Radiation near 2Æ' and intensified emissions near Æ' in the dayside and nightside auroral region and polar cap. Journal of Geophysical Research, 1997, 102, 4787-4798.	3.3	17
149	Angle-averaged efficiencies for linear mode conversion between Langmuir waves and radiation in an unmagnetized plasma. Physics of Plasmas, 2005, 12, 052315.	1.9	17
150	Quasilinearâ€based simulations of bidirectional type III bursts. Journal of Geophysical Research, 2008, 113, .	3.3	17
151	Automatic recognition of complex magnetic regions on the Sun in GONG magnetogram images and prediction of flares: Techniques for the flare warning program Flarecast. Space Weather, 2011, 9, .	3.7	17
152	PREDICTION OF TYPE II SOLAR RADIO BURSTS BY THREE-DIMENSIONAL MHD CORONAL MASS EJECTION AND KINETIC RADIO EMISSION SIMULATIONS. Astrophysical Journal Letters, 2013, 773, L30.	8.3	17
153	Radio wave scattering in the outer heliosphere: Preliminary calculations. Geophysical Research Letters, 1995, 22, 3433-3436.	4.0	16
154	The local interstellar magnetic field direction from direction-finding measurements of heliospheric 2â€3 kHz radio emissions. AIP Conference Proceedings, 2006, , .	0.4	16
155	Evidence for Wind-like Regions, Acceleration of Shocks in the Deep Corona, and Relevance of 1/ <i>f</i> Dynamic Spectra to Coronal Type II Bursts. Astrophysical Journal, 2008, 677, L129-L132.	4.5	16
156	Constraints on coronal turbulence models from source sizes of noise storms at 327 MHz. Journal of Geophysical Research, 2011, 116, .	3.3	16
157	Constraints on the Formation and Structure of Langmuir Eigenmodes in the Solar Wind. Physical Review Letters, 2013, 111, 121101.	7.8	16
158	Theory of type III and type II solar radio emissions. Geophysical Monograph Series, 2000, , 37-45.	0.1	15
159	Predicted timing for the turn-on of radiation in the outer heliosphere due to the Bastille Day shock. Journal of Geophysical Research, 2001, 106, 29363-29372.	3.3	15
160	Modeling 1 AU solar wind observations to estimate azimuthal magnetic fields at the solar source surface. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	15
161	Langmuir wave harmonics due to driven nonlinear currents. Journal of Geophysical Research: Space Physics, 2013, 118, 6880-6888.	2.4	15
162	Linear mode conversion of Langmuir/z-mode waves to radiation in plasmas with various magnetic field strength. Physics of Plasmas, 2013, 20, 122103.	1.9	15

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163	The Langmuir waves associated with the 1 December 2013 type II burst. Journal of Geophysical Research: Space Physics, 2015, 120, 4126-4141.	2.4	15
164	Pickup Ion-Driven Turbulence in the Polar Heliosphere: A Stochastic Growth Model. Astrophysical Journal, 2000, 541, 489-494.	4.5	15
165	Analytic MHD theory for Earth's bow shock at low Mach numbers. Journal of Geophysical Research, 1995, 100, 19941.	3.3	14
166	Banded frequency structure from linear mode conversion in inhomogeneous plasmas. Physics of Plasmas, 2003, 10, 4072-4078.	1.9	14
167	A Quantitative model for terrestrial foreshock radio emissions: 1. Predicted properties. Journal of Geophysical Research, 2004, 109, .	3.3	14
168	PRODUCTION OF FINE STRUCTURES IN TYPE III SOLAR RADIO BURSTS DUE TO TURBULENT DENSITY PROFILES. Astrophysical Journal, 2014, 790, 67.	4.5	14
169	Coronal turbulence and the angular broadening of radio sources – the role of the structure function. Monthly Notices of the Royal Astronomical Society, 2015, 447, 3486-3497.	4.4	14
170	An equatorial solar wind model with angular momentum conservation and nonradial magnetic fields and flow velocities at an inner boundary. Journal of Geophysical Research: Space Physics, 2016, 121, 4966-4984.	2.4	14
171	Fine structure in plasma waves and radiation near the plasma frequency in Earth's foreshock. Journal of Geophysical Research, 1994, 99, 23505.	3.3	13
172	Stochastic growth theory of spatially-averaged distributions of Langmuir Fields in Earth's foreshock. Geophysical Research Letters, 2001, 28, 3569-3572.	4.0	13
173	New constraints and energy conversion efficiencies for plasma emission. Physics of Plasmas, 2003, 10, 3315-3320.	1.9	13
174	Propagation of a cloud of hot electrons in the regime of fast relaxation. Physics of Plasmas, 2005, 12, 042905.	1.9	13
175	Type II solar radio bursts: Modeling and extraction of shock parameters. Journal of Geophysical Research, 2012, 117, .	3.3	13
176	Mapping magnetic field lines between the Sun and Earth. Journal of Geophysical Research: Space Physics, 2016, 121, 925-948.	2.4	13
177	Shocks in the Very Local Interstellar Medium. Space Science Reviews, 2022, 218, 27.	8.1	13
178	Interference patterns in the Spacelab 2 plasma wave data: Oblique electrostatic waves generated by the electron beam. Journal of Geophysical Research, 1992, 97, 17005-17018.	3.3	12
179	Unified theory of monochromatic and broadband modulational and decay instabilities of Langmuir waves. Physics of Plasmas, 2002, 9, 4149-4159.	1.9	12
180	Intrinsic variability and field statistics for the Vela pulsar – III. Two-component fits and detailed assessment of stochastic growth theory. Monthly Notices of the Royal Astronomical Society, 2003, 343, 523-532.	4.4	12

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