

George K Parks

List of Publications by Year in descending order

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101
papers

3,605
citations

201385

27
h-index

138251

58
g-index

101
all docs

101
docs citations

101
times ranked

2019
citing authors

#	ARTICLE	IF	CITATIONS
1	First multispacecraft ion measurements in and near the Earth's magnetosphere with the identical Cluster ion spectrometry (CIS) experiment. <i>Annales Geophysicae</i> , 2001, 19, 1303-1354.	0.6	1,040
2	Further observations of X-rays inside thunderstorms. <i>Geophysical Research Letters</i> , 1985, 12, 393-396.	1.5	181
3	Thin sheets of energetic electrons upstream from the Earth's bow shock. <i>Geophysical Research Letters</i> , 1979, 6, 401-404.	1.5	127
4	Global impact of ionospheric outflows on the dynamics of the magnetosphere and cross-polar cap potential. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 11-1.	3.3	116
5	Energy deposition by Alfvén waves into the dayside auroral oval: Cluster and FAST observations. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	113
6	Remote determination of auroral energy characteristics during substorm activity. <i>Geophysical Research Letters</i> , 1997, 24, 995-998.	1.5	108
7	Contribution of nonadiabatic ions to the cross-tail current in an O ⁺ -dominated thin current sheet. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	104
8	Kelvin-Helmholtz waves under southward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	94
9	Non-relativistic ordered ion beams upstream of the Earth's bow shock. <i>Journal of Geophysical Research</i> , 1981, 86, 4415-4424.	3.3	85
10	Observation of an impulsive solar electron event extending down to ~40.5 keV energy. <i>Geophysical Research Letters</i> , 1996, 23, 1211-1214.	1.5	79
11	High time resolution study of the hemispheric power carried by energetic electrons into the ionosphere during the May 19/20,1996 auroral activity. <i>Geophysical Research Letters</i> , 1997, 24, 987-990.	1.5	65
12	Spatial characteristics of auroral-zone X-ray microbursts. <i>Journal of Geophysical Research</i> , 1967, 72, 215.	3.3	63
13	First detection of a terrestrial MeV X-ray burst. <i>Geophysical Research Letters</i> , 1998, 25, 4109-4112.	1.5	59
14	The acceleration and precipitation of Van Allen outer zone energetic electrons. <i>Journal of Geophysical Research</i> , 1970, 75, 3802-3816.	3.3	58
15	Moon-solar wind interactions: First results from the WIND/3DP Experiment. <i>Geophysical Research Letters</i> , 1996, 23, 1259-1262.	1.5	53
16	Field-aligned currents associated with dipolarization fronts. <i>Geophysical Research Letters</i> , 2013, 40, 4503-4508.	1.5	53
17	An Experiment to Study Energetic Particle Fluxes In and beyond the Earth's Outer Magnetosphere. , 1978, 16, 213-216.		52
18	The subsolar magnetosheath and magnetopause for high solar wind ram pressure: WIND observations. <i>Geophysical Research Letters</i> , 1996, 23, 1279-1282.	1.5	48

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19	Initial response and complex polar cap structures of the aurora in response to the January 10, 1997 magnetic cloud. <i>Geophysical Research Letters</i> , 1998, 25, 2577-2580.	1.5	46
20	Larmor radius size density holes discovered in the solar wind upstream of Earth's bow shock. <i>Physics of Plasmas</i> , 2006, 13, 050701.	0.7	39
21	Kelvin-Helmholtz vortices observed by THEMIS at the duskside of the magnetopause under southward interplanetary magnetic field. <i>Geophysical Research Letters</i> , 2014, 41, 4427-4434.	1.5	37
22	Behavior of outer radiation zone and a new model of magnetospheric substorm. <i>Planetary and Space Science</i> , 1972, 20, 1391-1408.	0.9	34
23	The phase relationship between gyrophase-bunched ions and MHD-like waves. <i>Geophysical Research Letters</i> , 1986, 13, 60-63.	1.5	34
24	BGK electron solitary waves in 3D magnetized plasma. <i>Geophysical Research Letters</i> , 2002, 29, 45-1-45-4.	1.5	33
25	Electric fields associated with dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5272-5278.	0.8	33
26	New properties of energy-dispersed ions in the plasma sheet boundary layer observed by Cluster. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	32
27	Analysis of auroral morphology: Substorm precursor and onset on January 10, 1997. <i>Geophysical Research Letters</i> , 1998, 25, 3043-3046.	1.5	30
28	Solitary Electromagnetic Pulses Detected with Super-Alfvénic Flows in Earth's Geomagnetic Tail. <i>Physical Review Letters</i> , 2007, 98, 265001.	2.9	30
29	Short-term variations of the inner radiation belt in the South Atlantic anomaly. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4475-4486.	0.8	29
30	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
31	Response of high-energy protons of the inner radiation belt to large magnetic storms. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	27
32	Nonlinear Development of Shocklike Structure in the Solar Wind. <i>Physical Review Letters</i> , 2009, 103, 031101.	2.9	26
33	IMF By effects in the magnetospheric convection on closed magnetic field lines. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	25
34	First results from WIND spacecraft: An introduction. <i>Geophysical Research Letters</i> , 1996, 23, 1179-1181.	1.5	24
35	Coincident POLAR/UVI and WIND observations of pseudobreakups. <i>Geophysical Research Letters</i> , 2000, 27, 1379-1382.	1.5	24
36	Auroral Observations from the POLAR Ultraviolet Imager (UVI). <i>Geophysical Monograph Series</i> , 0, , 149-160.	0.1	24

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37	Hemispheric asymmetry of the afternoon electron aurora. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	23
38	Counterstreaming Beams and Flat-Top Electron Distributions Observed with Langmuir, Whistler, and Compressional Alfvén Waves in Earth's Magnetic Tail. <i>Physical Review Letters</i> , 2009, 102, 075003.	2.9	23
39	Kinetic properties of bursty bulk flow events. <i>Geophysical Research Letters</i> , 2000, 27, 1847-1850.	1.5	22
40	Observations of Ionospheric Electron Beams in the Plasma Sheet. <i>Physical Review Letters</i> , 2012, 109, 205001.	2.9	22
41	Probing the Earth's bow shock with upstream electrons. <i>Geophysical Research Letters</i> , 1996, 23, 2203-2206.	1.5	20
42	The 2- to 12-min quasi-periodic variation of 50- to 1000-keV trapped electron fluxes. <i>Journal of Geophysical Research</i> , 1976, 81, 4517-4523.	3.3	19
43	Why space physics needs to go beyond the MHD box. <i>Space Science Reviews</i> , 2004, 113, 97-121.	3.7	19
44	Foreshock density holes in the context of known upstream plasma structures. <i>Annales Geophysicae</i> , 2008, 26, 3741-3755.	0.6	18
45	Multipoint observations of plasma phenomena made in space by Cluster. <i>Journal of Plasma Physics</i> , 2015, 81, .	0.7	18
46	A component of nongyrotropic (phase-bunched) electrons upstream from the Earth's bow shock. <i>Journal of Geophysical Research</i> , 1985, 90, 10809-10814.	3.3	17
47	Propagation characteristics of young hot flow anomalies near the bow shock: Cluster observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4142-4154.	0.8	17
48	The auroral oval boundaries on January 10 1997: A comparison of global magnetospheric simulations with UVI images. <i>Geophysical Research Letters</i> , 1998, 25, 2585-2588.	1.5	16
49	Entropy Generation across Earth's Collisionless Bow Shock. <i>Physical Review Letters</i> , 2012, 108, 061102.	2.9	16
50	Shocks in collisionless plasmas. <i>Reviews of Modern Plasma Physics</i> , 2017, 1, 1.	2.2	16
51	Evidence for acceleration of ions to $\sim \frac{1}{4}$ 1 MeV by adiabatic-like reflection at the quasi-perpendicular Earth's bow shock. <i>Geophysical Research Letters</i> , 1999, 26, 2925-2928.	1.5	15
52	Upstream and magnetosheath energetic ions with energies to ~ 2 MeV. <i>Geophysical Research Letters</i> , 1996, 23, 1223-1226.	1.5	14
53	Modeling of upstream energetic particle events observed by WIND. <i>Geophysical Research Letters</i> , 1996, 23, 1227-1230.	1.5	13
54	The current system associated with the boundary of plasma bubbles. <i>Geophysical Research Letters</i> , 2014, 41, 8169-8175.	1.5	13

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55	Ponderomotive acceleration of ions by circularly polarized electromagnetic waves. Geophysical Research Letters, 1996, 23, 327-330.	1.5	12
56	Comparison of plasma sheet dynamics during pseudobreakups and expansive aurorae. Physics of Plasmas, 2001, 8, 1127.	0.7	12
57	High-speed flowing plasmas in the Earth's plasma sheet. Science Bulletin, 2011, 56, 1182-1187.	1.7	11
58	GLOBAL EXPLICIT PARTICLE-IN-CELL SIMULATIONS OF THE NONSTATIONARY BOW SHOCK AND MAGNETOSPHERE. Astrophysical Journal, Supplement Series, 2016, 225, 13.	3.0	11
59	Further characteristics of the evening energetic electron decreases during substorms. Journal of Geophysical Research, 1974, 79, 3201-3205.	3.3	10
60	Ring current intensification and convection-driven negative bays: Multisatellite studies. Journal of Geophysical Research, 2003, 108, .	3.3	10
61	The Discovery of Auroral X-Rays by Balloon-Borne Detectors and Their Contributions to Magnetospheric Research. Geophysical Monograph Series, 2013, , 17-23.	0.1	10
62	MMS Direct Observations of Kinetic-scale Shock Self-reformation. Astrophysical Journal Letters, 2020, 901, L6.	3.0	10
63	Analysis and modeling of microburst precipitation. Geophysical Research Letters, 1996, 23, 1729-1732.	1.5	9
64	Energy spectral characteristics of auroral electron microburst precipitation. Geophysical Research Letters, 1997, 24, 611-614.	1.5	9
65	Correlation of interplanetary-space B_z field fluctuations and trapped-particle redistribution. Journal of Geophysical Research, 1972, 77, 266-269.	3.3	8
66	REINTERPRETATION OF SLOWDOWN OF SOLAR WIND MEAN VELOCITY IN NONLINEAR STRUCTURES OBSERVED UPSTREAM OF EARTH'S BOW SHOCK. Astrophysical Journal Letters, 2013, 771, L39.	3.0	8
67	Energy Characterization of a Dynamic Auroral Event Using GGS UVI Images. Geophysical Monograph Series, 2013, , 143-147.	0.1	8
68	Electron flat-top distributions and cross-scale wave modulations observed in the current sheet of geomagnetic tail. Physics of Plasmas, 2017, 24, 082903.	0.7	8
69	Particle Detector (PD) Experiment of the Korea Space Environment Monitor (KSEM) Aboard Geostationary Satellite GK2A. Space Science Reviews, 2020, 216, 1.	3.7	8
70	Ponderomotive force in a nonisothermal plasma. Physics of Fluids, 1988, 31, 90-94.	1.4	7
71	WIND observations of energetic ions far upstream of the Earth's bow-shock. Geophysical Research Letters, 1996, 23, 1215-1218.	1.5	7
72	Magnetosheath excursion and the relevant transport process at the magnetopause. Annales Geophysicae, 2009, 27, 2997-3005.	0.6	7

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73	TRANSPORT OF SOLAR WIND H ⁺ AND He ⁺⁺ IONS ACROSS EARTH'S BOW SHOCK. <i>Astrophysical Journal Letters</i> , 2016, 825, L27.	3.0	7
74	Oxygen Ion Reflection at Earthward Propagating Dipolarization Fronts in the Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6277-6288.	0.8	7
75	Ion beams observed in the near Earth plasma sheet region on May 10, 1996. <i>Geophysical Research Letters</i> , 1997, 24, 975-978.	1.5	6
76	FULL PARTICLE ELECTROMAGNETIC SIMULATIONS OF ENTROPY GENERATION ACROSS A COLLISIONLESS SHOCK. <i>Astrophysical Journal Letters</i> , 2014, 793, L11.	3.0	6
77	Nonlinear low-frequency wave aspect of foreshock density holes. <i>Annales Geophysicae</i> , 2008, 26, 3707-3718.	0.6	5
78	Chaotic structures of nonlinear magnetic fields I: Theory. <i>Geophysical Research Letters</i> , 1992, 19, 637-640.	1.5	4
79	Global multispectral auroral imaging of an isolated substorm. <i>Geophysical Research Letters</i> , 2000, 27, 637-640.	1.5	4
80	Electromagnetic disturbances observed near the dip region ahead of dipolarization front. <i>Geophysical Research Letters</i> , 2016, 43, 3026-3034.	1.5	4
81	Modulation of Whistler Mode Waves by Ion-Scale Waves Observed in the Distant Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027278.	0.8	4
82	Auroral precipitating energy during long magnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6007-6021.	0.8	3
83	Plasma transport into the duskside magnetopause caused by Kelvin-Helmholtz vortices in response to the northward turning of the interplanetary magnetic field observed by THEMIS. <i>Annales Geophysicae</i> , 2020, 38, 263-273.	0.6	3
84	Envelope equation for nonlinear transverse waves in a warm two-fluid plasma. <i>Physics of Plasmas</i> , 1998, 5, 3853-3867.	0.7	2
85	Importance of electric fields in modeling space plasmas. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007, 69, 18-23.	0.6	2
86	X-Ray Images of an Auroral Break-Up. <i>Geophysical Monograph Series</i> , 0, , 129-135.	0.1	2
87	Substructure of a Kelvin-Helmholtz Vortex Accompanied by Plasma Transport Under the Northward Interplanetary Magnetic Field. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	2
88	Chaotic structures of nonlinear magnetic fields II: Numerical results. <i>Geophysical Research Letters</i> , 1992, 19, 641-644.	1.5	1
89	Hydromagnetic discontinuities from the evolution of nonlinear Alfvén waves. <i>Geophysical Research Letters</i> , 1995, 22, 1477-1480.	1.5	1
90	The envelope equation of oblique Alfvén waves. <i>Physics of Plasmas</i> , 2003, 10, 934-940.	0.7	1

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91	Dayside and nightside segments of a polar arc: The particle characteristics. Journal of Geophysical Research, 2012, 117, .	3.3	1
92	Electric Field and Current. Astronomy and Astrophysics Library, 2018, , 235-296.	0.2	1
93	Correction to paper by George K. Parks, "Spatial characteristics of auroral-zone X-ray microbursts". Journal of Geophysical Research, 1967, 72, 3517-3517.	3.3	0
94	Comments and questions on the plasma sheet boundary and boundary layer. Geophysical Monograph Series, 1995, , 385-390.	0.1	0
95	Acceleration of energetic ions at the earth's near perpendicular shock: Three-dimensional observations. AIP Conference Proceedings, 2000, , .	0.3	0
96	WIND Observations of Suprathermal Particles in the Solar Wind. Geophysical Monograph Series, 2013, , 1-12.	0.1	0
97	Ionospheric Response for the Sept. 24-25, 1998 Magnetic Cloud Event. Geophysical Monograph Series, 0, , 403-411.	0.1	0
98	Charged Particle Acceleration. Astronomy and Astrophysics Library, 2018, , 45-89.	0.2	0
99	Escaping Stellar Particles. Astronomy and Astrophysics Library, 2018, , 91-128.	0.2	0
100	Collisionless Shocks. Astronomy and Astrophysics Library, 2018, , 129-189.	0.2	0
101	Topics for Further Studies. Astronomy and Astrophysics Library, 2018, , 297-323.	0.2	0