

# George K Parks

## List of Publications by Year in descending order

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101  
papers

3,605  
citations

201385

27  
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138251

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Substructure of a Kelvinâ€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
2	Plasma transport into the duskside magnetopause caused by Kelvinâ€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
3	Particle Detector (PD) Experiment of the Korea Space Environment Monitor (KSEM) Aboard Geostationary Satellite GK2A. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	8
4	Modulation of Whistler Mode Waves by Ionâ€Scale Waves Observed in the Distant Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027278.	0.8	4
5	MMS Direct Observations of Kinetic-scale Shock Self-reformation. <i>Astrophysical Journal Letters</i> , 2020, 901, L6.	3.0	10
6	Charged Particle Acceleration. <i>Astronomy and Astrophysics Library</i> , 2018, , 45-89.	0.2	0
7	Escaping Stellar Particles. <i>Astronomy and Astrophysics Library</i> , 2018, , 91-128.	0.2	0
8	Collisionless Shocks. <i>Astronomy and Astrophysics Library</i> , 2018, , 129-189.	0.2	0
9	Electric Field and Current. <i>Astronomy and Astrophysics Library</i> , 2018, , 235-296.	0.2	1
10	Topics for Further Studies. <i>Astronomy and Astrophysics Library</i> , 2018, , 297-323.	0.2	0
11	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
12	Auroral precipitating energy during long magnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6007-6021.	0.8	3
13	Electron flat-top distributions and cross-scale wave modulations observed in the current sheet of geomagnetic tail. <i>Physics of Plasmas</i> , 2017, 24, 082903.	0.7	8
14	Shocks in collisionless plasmas. <i>Reviews of Modern Plasma Physics</i> , 2017, 1, 1.	2.2	16
15	TRANSPORT OF SOLAR WIND H <sup>+</sup> AND He <sup>++</sup> IONS ACROSS EARTHâ€™S BOW SHOCK. <i>Astrophysical Journal Letters</i> , 2016, 825, L27.	3.0	7
16	Electromagnetic disturbances observed near the dip region ahead of dipolarization front. <i>Geophysical Research Letters</i> , 2016, 43, 3026-3034.	1.5	4
17	GLOBAL EXPLICIT PARTICLE-IN-CELL SIMULATIONS OF THE NONSTATIONARY BOW SHOCK AND MAGNETOSPHERE. <i>Astrophysical Journal, Supplement Series</i> , 2016, 225, 13.	3.0	11
18	Shortâ€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

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19	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
20	Multipoint observations of plasma phenomena made in space by Cluster. <i>Journal of Plasma Physics</i> , 2015, 81, .	0.7	18
21	FULL PARTICLE ELECTROMAGNETIC SIMULATIONS OF ENTROPY GENERATION ACROSS A COLLISIONLESS SHOCK. <i>Astrophysical Journal Letters</i> , 2014, 793, L11.	3.0	6
22	Electric fields associated with dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5272-5278.	0.8	33
23	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
24	The current system associated with the boundary of plasma bubbles. <i>Geophysical Research Letters</i> , 2014, 41, 8169-8175.	1.5	13
25	REINTERPRETATION OF SLOWDOWN OF SOLAR WIND MEAN VELOCITY IN NONLINEAR STRUCTURES OBSERVED UPSTREAM OF EARTH'S BOW SHOCK. <i>Astrophysical Journal Letters</i> , 2013, 771, L39.	3.0	8
26	WIND Observations of Suprathermal Particles in the Solar Wind. <i>Geophysical Monograph Series</i> , 2013, , 1-12.	0.1	0
27	Field-aligned currents associated with dipolarization fronts. <i>Geophysical Research Letters</i> , 2013, 40, 4503-4508.	1.5	53
28	Energy Characterization of a Dynamic Auroral Event Using GGS UVI Images. <i>Geophysical Monograph Series</i> , 2013, , 143-147.	0.1	8
29	The Discovery of Auroral X-Rays by Balloon-Borne Detectors and Their Contributions to Magnetospheric Research. <i>Geophysical Monograph Series</i> , 2013, , 17-23.	0.1	10
30	Entropy Generation across Earth's Collisionless Bow Shock. <i>Physical Review Letters</i> , 2012, 108, 061102.	2.9	16
31	Observations of Ionospheric Electron Beams in the Plasma Sheet. <i>Physical Review Letters</i> , 2012, 109, 205001.	2.9	22
32	Dayside and nightside segments of a polar arc: The particle characteristics. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	1
33	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
34	Kelvin-Helmholtz waves under southward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	94
35	High-speed flowing plasmas in the Earth's plasma sheet. <i>Science Bulletin</i> , 2011, 56, 1182-1187.	1.7	11
36	Magnetosheath excursion and the relevant transport process at the magnetopause. <i>Annales Geophysicae</i> , 2009, 27, 2997-3005.	0.6	7

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37	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
38	Nonlinear Development of Shocklike Structure in the Solar Wind. <i>Physical Review Letters</i> , 2009, 103, 031101.	2.9	26
39	Foreshock density holes in the context of known upstream plasma structures. <i>Annales Geophysicae</i> , 2008, 26, 3741-3755.	0.6	18
40	Nonlinear low-frequency wave aspect of foreshock density holes. <i>Annales Geophysicae</i> , 2008, 26, 3707-3718.	0.6	5
41	Solitary Electromagnetic Pulses Detected with Super-Alfvénic Flows in Earth's Geomagnetic Tail. <i>Physical Review Letters</i> , 2007, 98, 265001.	2.9	30
42	Importance of electric fields in modeling space plasmas. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007, 69, 18-23.	0.6	2
43	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
44	Hemispheric asymmetry of the afternoon electron aurora. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	23
45	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
46	Contribution of nonadiabatic ions to the cross-tail current in an O <sup>+</sup> -dominated thin current sheet. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	104
47	Why space physics needs to go beyond the MHD box. <i>Space Science Reviews</i> , 2004, 113, 97-121.	3.7	19
48	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
49	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
50	Ring current intensification and convection-driven negative bays: Multisatellite studies. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	10
51	IMF By effects in the magnetospheric convection on closed magnetic field lines. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	25
52	The envelope equation of oblique Alfvén waves. <i>Physics of Plasmas</i> , 2003, 10, 934-940.	0.7	1
53	BGK electron solitary waves in 3D magnetized plasma. <i>Geophysical Research Letters</i> , 2002, 29, 45-1-45-4.	1.5	33
54	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

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55	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
56	Comparison of plasma sheet dynamics during pseudobreakups and expansive aurorae. <i>Physics of Plasmas</i> , 2001, 8, 1127.	0.7	12
57	Acceleration of energetic ions at the earth's near perpendicular shock: Three-dimensional observations. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	0
58	Kinetic properties of bursty bulk flow events. <i>Geophysical Research Letters</i> , 2000, 27, 1847-1850.	1.5	22
59	Global multispectral auroral imaging of an isolated substorm. <i>Geophysical Research Letters</i> , 2000, 27, 637-640.	1.5	4
60	Coincident POLAR/UVI and WIND observations of pseudobreakups. <i>Geophysical Research Letters</i> , 2000, 27, 1379-1382.	1.5	24
61	Evidence for acceleration of ions to $\sim 1$ 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
62	First detection of a terrestrial MeV X-ray burst. <i>Geophysical Research Letters</i> , 1998, 25, 4109-4112.	1.5	59
63	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
64	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
65	Analysis of auroral morphology: Substorm precursor and onset on January 10, 1997. <i>Geophysical Research Letters</i> , 1998, 25, 3043-3046.	1.5	30
66	Envelope equation for nonlinear transverse waves in a warm two-fluid plasma. <i>Physics of Plasmas</i> , 1998, 5, 3853-3867.	0.7	2
67	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
68	Energy spectral characteristics of auroral electron microburst precipitation. <i>Geophysical Research Letters</i> , 1997, 24, 611-614.	1.5	9
69	Remote determination of auroral energy characteristics during substorm activity. <i>Geophysical Research Letters</i> , 1997, 24, 995-998.	1.5	108
70	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
71	Ponderomotive acceleration of ions by circularly polarized electromagnetic waves. <i>Geophysical Research Letters</i> , 1996, 23, 327-330.	1.5	12
72	Upstream and magnetosheath energetic ions with energies to $\sim 2$ MeV. <i>Geophysical Research Letters</i> , 1996, 23, 1223-1226.	1.5	14

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73	Moon-solar wind interactions: First results from the WIND/3DP Experiment. Geophysical Research Letters, 1996, 23, 1259-1262.	1.5	53
74	Modeling of upstream energetic particle events observed by WIND. Geophysical Research Letters, 1996, 23, 1227-1230.	1.5	13
75	Observation of an impulsive solar electron event extending down to $\sim 0.5$ keV energy. Geophysical Research Letters, 1996, 23, 1211-1214.	1.5	79
76	The subsolar magnetosheath and magnetopause for high solar wind ram pressure: WIND observations. Geophysical Research Letters, 1996, 23, 1279-1282.	1.5	48
77	First results from WIND spacecraft: An introduction. Geophysical Research Letters, 1996, 23, 1179-1181.	1.5	24
78	WIND observations of energetic ions far upstream of the Earth's bow-shock. Geophysical Research Letters, 1996, 23, 1215-1218.	1.5	7
79	Analysis and modeling of microburst precipitation. Geophysical Research Letters, 1996, 23, 1729-1732.	1.5	9
80	Probing the Earth's bow shock with upstream electrons. Geophysical Research Letters, 1996, 23, 2203-2206.	1.5	20
81	Comments and questions on the plasma sheet boundary and boundary layer. Geophysical Monograph Series, 1995, , 385-390.	0.1	0
82	Hydromagnetic discontinuities from the evolution of nonlinear Alfvén waves. Geophysical Research Letters, 1995, 22, 1477-1480.	1.5	1
83	Chaotic structures of nonlinear magnetic fields I: Theory. Geophysical Research Letters, 1992, 19, 637-640.	1.5	4
84	Chaotic structures of nonlinear magnetic fields II: Numerical results. Geophysical Research Letters, 1992, 19, 641-644.	1.5	1
85	Ponderomotive force in a nonisothermal plasma. Physics of Fluids, 1988, 31, 90-94.	1.4	7
86	The phase relationship between gyrophase-bunched ions and MHD-like waves. Geophysical Research Letters, 1986, 13, 60-63.	1.5	34
87	Further observations of X-rays inside thunderstorms. Geophysical Research Letters, 1985, 12, 393-396.	1.5	181
88	A component of nongyrotropic (phase-bunched) electrons upstream from the Earth's bow shock. Journal of Geophysical Research, 1985, 90, 10809-10814.	3.3	17
89	Non-ordered ion beams upstream of the Earth's bow shock. Journal of Geophysical Research, 1981, 86, 4415-4424.	3.3	85
90	Thin sheets of energetic electrons upstream from the Earth's bow shock. Geophysical Research Letters, 1979, 6, 401-404.	1.5	127

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91	An Experiment to Study Energetic Particle Fluxes In and beyond the Earth's Outer Magnetosphere. , 1978, 16, 213-216.		52
92	The 2- to 12-min quasi-periodic variation of 50- to 1000-keV trapped electron fluxes. Journal of Geophysical Research, 1976, 81, 4517-4523.	3.3	19
93	Further characteristics of the evening energetic electron decreases during substorms. Journal of Geophysical Research, 1974, 79, 3201-3205.	3.3	10
94	Correlation of interplanetary-space $B_z$ field fluctuations and trapped-particle redistribution. Journal of Geophysical Research, 1972, 77, 266-269.	3.3	8
95	Behavior of outer radiation zone and a new model of magnetospheric substorm. Planetary and Space Science, 1972, 20, 1391-1408.	0.9	34
96	The acceleration and precipitation of Van Allen outer zone energetic electrons. Journal of Geophysical Research, 1970, 75, 3802-3816.	3.3	58
97	Spatial characteristics of auroral-zone X-ray microbursts. Journal of Geophysical Research, 1967, 72, 215.	3.3	63
98	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
99	Auroral Observations from the POLAR Ultraviolet Imager (UVI). Geophysical Monograph Series, 0, , 149-160.	0.1	24
100	Ionospheric Response for the Sept. 24-25, 1998 Magnetic Cloud Event. Geophysical Monograph Series, 0, , 403-411.	0.1	0
101	X-Ray Images of an Auroral Break-Up. Geophysical Monograph Series, 0, , 129-135.	0.1	2