S Peter Gary

List of Publications by Citations

156	8,352	52	85
papers	citations	h-index	g-index
156	8,887	3.8	6.08
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
156	Theory of Space Plasma Microinstabilities **1993**,		636
155	Solar wind electrons. *Journal of Geophysical Research*, **1975**, 80, 4181-4196		574
154	Electromagnetic ion beam instabilities. *Physics of Fluids*, **1984**, 27, 1852		204
153	Wind/SWE observations of firehose constraint on solar wind proton temperature anisotropy. *Geophysical Research Letters*, **2002**, 29, 20-1-20-4	4.9	198
152	Magnetic spectral signatures in the Earth's magnetosheath and plasma depletion layer. *Journal of Geophysical Research*, **1994**, 99, 5877		196
151	Solar wind magnetic fluctuation spectra: Dispersion versus damping. *Journal of Geophysical Research*, **2001**, 106, 8273-8281		180
150	The mirror and ion cyclotron anisotropy instabilities. *Journal of Geophysical Research*, **1992**, 97, 8519		175
149	Hot solar-wind helium: direct evidence for local heating by Alfvén-cyclotron dissipation. *Physical Review Letters*, **2008**, 101, 261103	7.4	151
148	Whistler instability: Electron anisotropy upper bound. *Journal of Geophysical Research*, **1996**, 101, 10749-10754		139
147	Heat flux instabilities in the solar wind. *Journal of Geophysical Research*, **1975**, 80, 4197-4203		122
146	Whistler turbulence: Particle-in-cell simulations. *Physics of Plasmas*, **2008**, 15, 102305	2.1	111
145	The proton cyclotron instability and the anisotropy/inverse correlation. *Journal of Geophysical Research*, **1994**, 99, 5903		110
144	Short-wavelength turbulence in the solar wind: Linear theory of whistler and kinetic Alfvén fluctuations. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		103
143	INSTABILITY-DRIVEN LIMITS ON HELIUM TEMPERATURE ANISOTROPY IN THE SOLAR WIND: OBSERVATIONS AND LINEAR VLASOV ANALYSIS. *Astrophysical Journal*, **2012**, 748, 137	4.7	102
142	Low-frequency waves in a high-beta collisionless plasma: polarization, compressibility and helicity. *Journal of Plasma Physics*, **1986**, 35, 431-447	2.7	100
141	Proton temperature anisotropy constraint in the solar wind: ACE observations. *Geophysical Research Letters*, **2001**, 28, 2759-2762	4.9	98
140	The ion cyclotron anisotropy instability and the inverse correlation between proton anisotropy and proton beta. *Journal of Geophysical Research*, **1994**, 99, 11297		92

139	Proton resonant firehose instability: Temperature anisotropy and fluctuating field constraints. *Journal of Geophysical Research*, **1998**, 103, 14567-14574		91
138	Cascade of whistler turbulence: Particle-in-cell simulations. *Geophysical Research Letters*, **2008**, 35,	4.9	90
137	Dispersion relation analysis of solar wind turbulence. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	89
136	Proton temperature anisotropy upper bound. *Journal of Geophysical Research*, **1997**, 102, 27159-27169		89
135	The ion-ion acoustic instability. *Journal of Plasma Physics*, **1987**, 37, 45-61	2.7	88
134	Excitation of magnetosonic waves in the terrestrial magnetosphere: Particle-in-cell simulations. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		85
133	Linear theory of electron temperature anisotropy instabilities: Whistler, mirror, and Weibel. *Journal of Geophysical Research*, **2006**, 111,		82
132	Regulation of the solar wind electron heat flux from 1 to 5 AU: Ulysses observations. *Journal of Geophysical Research*, **1994**, 99, 23401		82
131	Electromagnetic ion instabilities in a cometary environment. *Journal of Geophysical Research*, **1988**, 93, 235		80
130	Electromagnetic instabilities driven by unequal proton beams in the solar wind. *Journal of Geophysical Research*, **1976**, 81, 2743-2749		79
129	Whistler anisotropy instabilities as the source of banded chorus: Van Allen Probes observations and particle-in-cell simulations. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 8288-8298	2.6	77
128	Electromagnetic proton/proton instabilities in the solar wind: Simulations. *Journal of Geophysical Research*, **1999**, 104, 4657-4667		76
127	Alfvén-cyclotron fluctuations: Linear Vlasov theory. *Journal of Geophysical Research*, **2004**, 109,		75
126	Observed constraint on proton-proton relative velocities in the solar wind. *Geophysical Research Letters*, **2000**, 27, 53-56	4.9	74
125	Electromagnetic proton cyclotron instability: Interactions with magnetospheric protons. *Journal of Geophysical Research*, **1995**, 100, 21961-21972		74
124	The development of shell-like distributions from newborn cometary ions. *Geophysical Research Letters*, **1986**, 13, 1364-1367	4.9	72
123	Resonant electron firehose instability: Particle-in-cell simulations. *Physics of Plasmas*, **2003**, 10, 3571-3576	2.1	70
122	Evidence for local ion heating in solar wind high speed streams. *Geophysical Research Letters*, **1975**, 2, 373-375	4.9	70

121	Electron heat flux instabilities in the solar wind. *Geophysical Research Letters*, **1975**, 2, 79-82	4.9	69
120	Ion Bernstein instability in the terrestrial magnetosphere: Linear dispersion theory. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		68
119	A KINETIC ALFVÉN WAVE CASCADE SUBJECT TO COLLISIONLESS DAMPING CANNOT REACH ELECTRON SCALES IN THE SOLAR WIND AT 1 AU. *Astrophysical Journal*, **2010**, 712, 685-691	4.7	68
118	The source of proton anisotropy in the high-speed solar wind. *Journal of Geophysical Research*, **1981**, 86, 541		67
117	Time History of Events and Macroscale Interactions during Substorms observations of a series of hot flow anomaly events. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		65
116	FORWARD CASCADE OF WHISTLER TURBULENCE: THREE-DIMENSIONAL PARTICLE-IN-CELL SIMULATIONS. *Astrophysical Journal*, **2012**, 755, 142	4.7	64
115	Hot proton anisotropies and cool proton temperatures in the outer magnetosphere. *Journal of Geophysical Research*, **1994**, 99, 23603		64
114	Inverse correlations between the ion temperature anisotropy and plasma beta in the Earth's quasi-parallel magnetosheath. *Journal of Geophysical Research*, **1994**, 99, 14931		61
113	Electromagnetic Ion-Beam Instabilities in the Solar Wind. *Physical Review Letters*, **1975**, 35, 667-670	7.4	60
112	Ion distributions in large magnetic holes in the fast solar wind. *Journal of Geophysical Research*, **2001**, 106, 5635-5648		59
111	On the dissipation of magnetic fluctuations in the solar wind. *Geophysical Research Letters*, **2001**, 28, 1347-1350	4.9	56
110	Scattering of suprathermal electrons in the solar wind: ACE observations. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		55
109	Helium energetics in the high-latitude solar wind: Ulysses observations. *Journal of Geophysical Research*, **2001**, 106, 5693-5708		55
108	Mirror and ion cyclotron anisotropy instabilities in the magnetosheath. *Journal of Geophysical Research*, **1992**, 97, 19421		55
107	Ion observations from geosynchronous orbit as a proxy for ion cyclotron wave growth during storm times. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		53
106	A limited closure relation for anisotropic plasmas from the Earth's magnetosheath*. *Physics of Plasmas*, **1994**, 1, 1676-1683	2.1	53
105	Computer simulations of cometary-ion/ion instabilities and wave growth. *Journal of Geophysical Research*, **1989**, 94, 3513		53
104	Electron anisotropy constraint in the magnetosheath: Cluster observations. *Geophysical Research Letters*, **2005**, 32,	4.9	52

103	Ion-driven instabilities in the solar wind: Wind observations of 19 March 2005. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 30-41	2.6	52
102	Resonant heating and acceleration of ions in coronal holes driven by cyclotron resonant spectra. *Journal of Geophysical Research*, **2002**, 107, SSH 9-1-SSH 9-9		51
101	Kinetic Alfvén waves: Linear theory and a particle-in-cell simulation. *Journal of Geophysical Research* , **2004**, 109,		50
100	Whistler anisotropy instability at low electron βParticle-in-cell simulations. *Physics of Plasmas*, **2011**, 18, 082902	2.1	49
99	ANALYTIC MODEL OF THEIBEXRIBBON WITH NEUTRAL SOLAR WIND BASED ION PICKUP BEYOND THE HELIOPAUSE. *Astrophysical Journal*, **2013**, 766, 129	4.7	48
98	Wavenumber spectrum of whistler turbulence: Particle-in-cell simulation. *Physics of Plasmas*, **2010**, 17, 122316	2.1	48
97	Consequences of proton and alpha anisotropies in the solar wind: Hybrid simulations. *Journal of Geophysical Research*, **2003**, 108,		48
96	Electromagnetic alpha/proton instabilities in the solar wind. *Geophysical Research Letters*, **2000**, 27, 1355-1358	4.9	48
95	A second-order theory for k||B0 electromagnetic instabilities. *Physics of Fluids*, **1978**, 21, 72		47
94	Two-dimensional simulations of ion anisotropy instabilities in the magnetosheath. *Journal of Geophysical Research*, **1994**, 99, 11141		46
93	NONLINEAR AND LINEAR TIMESCALES NEAR KINETIC SCALES IN SOLAR WIND TURBULENCE. *Astrophysical Journal*, **2014**, 790, 155	4.7	45
92	Collisionless dissipation wavenumber: Linear theory. *Journal of Geophysical Research*, **1999**, 104, 6759-6762		45
91	Ion cyclotron anisotropy instabilities in the magnetosheath: Theory and simulations. *Journal of Geophysical Research*, **1993**, 98, 3963-3971		44
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81	Whistler turbulence at variable electron beta: Three-dimensional particle-in-cell simulations. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 2824-2833	2.6	38
80	The second-order theory of electromagnetic hot ion beam instabilities. *Journal of Geophysical Research*, **1985**, 90, 65-72		38
79	Excitation of banded whistler waves in the magnetosphere. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	37
78	Particle-in-cell simulations of Alfvén-cyclotron wave scattering: Proton velocity distributions. *Journal of Geophysical Research*, **2003**, 108,		37
77	Electron heat flux constraints in the solar wind. *Physics of Plasmas*, **1999**, 6, 2607-2612	2.1	37
76	Whistler scattering of suprathermal electrons in the solar wind: Particle-in-cell simulations. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		36
75	Anomalous Resistivity Due to Electrostatic Turbulence. *Physical Review Letters*, **1971**, 26, 1097-1100	7.4	36
74	EFFECT OF DIFFERENTIAL FLOW OF ALPHA PARTICLES ON PROTON PRESSURE ANISOTROPY INSTABILITIES IN THE SOLAR WIND. *Astrophysical Journal*, **2011**, 742, 41	4.7	35
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65	Turbulent dissipation challenge: a community-driven effort. *Journal of Plasma Physics*, **2015**, 81,	2.7	30
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56	Energy dissipation and ion heating at the heliospheric termination shock. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		24
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52	Short-wavelength plasma turbulence and temperature anisotropy instabilities: recent computational progress. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2015**, 373,	3	23
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44	Alfvén-cyclotron instability with singly ionized helium: Linear theory. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		21
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34	Deep Space 1 encounter with Comet 19P/Borrelly: Ion composition measurements by the PEPE mass spectrometer. *Geophysical Research Letters*, **2003**, 30,	4.9	16
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18	Proton velocity ring-driven instabilities and their dependence on the ring speed: Linear theory. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 7891-7906	2.6	9
17	Hybrid Simulations of Positively and Negatively Charged Pickup Ions and Cyclotron Wave Generation at Europa. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 10408-10420	2.6	9
16	Particle-in-cell Simulations of Electron and Ion Dissipation by Whistler Turbulence: Variations with Electron *Astrophysical Journal Letters*, **2017**, 835, L15	7.9	8
15	Dissipation of Kinetic Alfvénic Turbulence as a Function of Ion and Electron Temperature Ratios. *Astrophysical Journal*, **2019**, 882, 29	4.7	7
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13	Scalings for the Alfvén-cyclotron instability: Linear dispersion theory and hybrid particle-in-cell simulations. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 464-474	2.6	6
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7	Intermittency and Ion Temperature Anisotropy Instabilities: Simulation and Magnetosheath Observation. *Astrophysical Journal*, **2020**, 895, 83	4.7	4
6	Particle-in-cell Simulations of Decaying Plasma Turbulence: Linear Instabilities versus Nonlinear Processes in 3D and 2.5D Approximations. *Astrophysical Journal*, **2020**, 901, 160	4.7	3
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