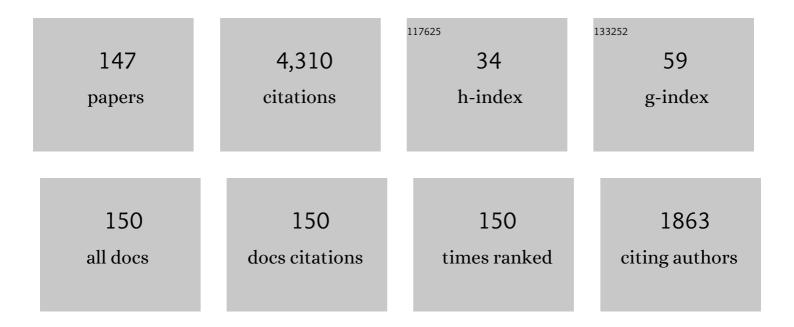
## **Konstantinos Papadopoulos**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The structure of perpendicular bow shocks. Journal of Geophysical Research, 1982, 87, 5081-5094.	3.3	439
2	Lowerâ€hybridâ€drift wave turbulence in the distant magnetotail. Journal of Geophysical Research, 1978, 83, 5217-5226.	3.3	198
3	Lowâ€dimensional chaos in magnetospheric activity from AE time series. Geophysical Research Letters, 1990, 17, 1841-1844.	4.0	159
4	A current disruption mechanism in the neutral sheet: A possible trigger for substorm expansions. Geophysical Research Letters, 1990, 17, 745-748.	4.0	147
5	Prediction of magnetic storms by nonlinear models. Geophysical Research Letters, 1996, 23, 2899-2902.	4.0	121
6	Reconstruction of lowâ€dimensional magnetospheric dynamics by singular spectrum analysis. Geophysical Research Letters, 1993, 20, 335-338.	4.0	104
7	Nonlinear stability of solar type III radio bursts. I - Theory. Astrophysical Journal, 1979, 234, 348.	4.5	94
8	Phase transition-like behavior of the magnetosphere during substorms. Journal of Geophysical Research, 2000, 105, 12955-12974.	3.3	90
9	Nonthermal features of the auroral plasma due to precipitating electrons. Journal of Geophysical Research, 1974, 79, 674-677.	3.3	87
10	On the efficiency of ionospheric ELF generation. Radio Science, 1990, 25, 1311-1320.	1.6	82
11	Modeling substorm dynamics of the magnetosphere: From self-organization and self-organized criticality to nonequilibrium phase transitions. Physical Review E, 2001, 65, 016116.	2.1	76
12	Parallel propagation effects on the type 1 electrojet instability. Journal of Geophysical Research, 1975, 80, 141-148.	3.3	73
13	Simulation of the March 9, 1995, substorm: Auroral brightening and the onset of lobe reconnection. Geophysical Research Letters, 1998, 25, 3039-3042.	4.0	67
14	Nonlinear stability of solar type III radio bursts. II - Application to observations near 1 AU. Astrophysical Journal, 1979, 234, 683.	4.5	65
15	Microinstabilities and Anomalous Transport. Geophysical Monograph Series, 0, , 59-90.	0.1	64
16	An overview of the impact of the January 10-11 1997 magnetic cloud on the magnetosphere via global MHD simulation. Geophysical Research Letters, 1998, 25, 2537-2540.	4.0	63
17	Red sprites: Lightning as a fractal antenna. Geophysical Research Letters, 1997, 24, 3169-3172.	4.0	62
18	Formation of artificial ionospheric ducts. Geophysical Research Letters, 2008, 35, .	4.0	58

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19	EVIDENCE FOR THE OSCILLATING TWO STREAM INSTABILITY AND SPATIAL COLLAPSE OF LANGMUIR WAVES IN A SOLAR TYPE III RADIO BURST. Astrophysical Journal Letters, 2012, 747, L1.	8.3	58
20	Conversion of Electrostatic to Electromagnetic Waves by Superluminous Ionization Fronts. Physical Review Letters, 2001, 86, 2806-2809.	7.8	55
21	Effects of the solar wind electric field and ionospheric conductance on the cross polar cap potential: Results of global MHD modeling. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	54
22	The thermal self-focusing instability near the critical surface in the high-latitude ionosphere. Journal of Geophysical Research, 1998, 103, 2231-2237.	3.3	53
23	On the physics of high altitude lightning. Geophysical Research Letters, 1995, 22, 85-88.	4.0	49
24	On the efficiency of ELF/VLF generation using HF heating of the auroral electrojet. Plasma Physics Reports, 2003, 29, 561-565.	0.9	49
25	Global MHD simulations of the strongly driven magnetosphere: Modeling of the transpolar potential saturation. Journal of Geophysical Research, 2005, 110, .	3.3	49
26	Electromagnetic radiation from strong Langmuir turbulence. Physics of Fluids, 1988, 31, 2185.	1.4	48
27	Stochastic Electron Acceleration in Obliquely Propagating Electromagnetic Waves. Physical Review Letters, 1987, 58, 2071-2074.	7.8	47
28	Ionization rates for atmospheric and ionospheric breakdown. Journal of Geophysical Research, 1993, 98, 17593-17596.	3.3	46
29	Lower-hybrid instabilities driven by an ion velocity ring. Journal of Plasma Physics, 1985, 34, 445-465.	2.1	44
30	Generation of controlled radiation sources in the atmosphere using a dual femtosecond /nanosecond laser pulse. Journal of Applied Physics, 2008, 103, .	2.5	43
31	Global and multi-scale features of solar wind-magnetosphere coupling: From modeling to forecasting. Geophysical Research Letters, 2004, 31, .	4.0	41
32	Generation of tunable far-infrared radiation by the interaction of a superluminous ionizing front with an electrically biased photoconductor. Applied Physics Letters, 1999, 74, 1669-1671.	3.3	40
33	MHD simulations of the response of high-latitude potential patterns and polar cap Boundaries to sudden southward turnings of the interplanetary magnetic field. Geophysical Research Letters, 1999, 26, 967-970.	4.0	38
34	Artificial ducts caused by HF heating of the ionosphere by HAARP. Journal of Geophysical Research, 2012, 117, .	3.3	36
35	Lyapunov exponent of magnetospheric activity from AL time series. Geophysical Research Letters, 1991, 18, 1643-1646.	4.0	34
36	Runaway electrons in the atmosphere in the presence of a magnetic field. Radio Science, 1996, 31, 1541-1554.	1.6	34

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37	Oscillating two-stream and parametric decay instabilities in a weakly magnetized plasma. Physics of Fluids, 1980, 23, 139.	1.4	33
38	Model for artificial ionospheric duct formation due to HF heating. Geophysical Research Letters, 2010, 37, .	4.0	32
39	Numerical modeling of artificial ionospheric layers driven by highâ€power HF heating. Journal of Geophysical Research, 2012, 117, .	3.3	32
40	RF ionization of the lower ionosphere. Radio Science, 1991, 26, 1345-1360.	1.6	31
41	The magnetic response of the ionosphere to pulsed HF heating. Geophysical Research Letters, 2005, 32, .	4.0	31
42	Generation of whistler waves by a rotating magnetic field source. Physics of Plasmas, 2010, 17, .	1.9	31
43	Generation of ELF/ULF waves in the ionosphere by dynamo processes. Geophysical Research Letters, 1985, 12, 279-282.	4.0	30
44	Spectrum of red sprites. Journal of Atmospheric and Solar-Terrestrial Physics, 1998, 60, 907-915.	1.6	30
45	Evidence for Langmuir envelope solitons in solar type III burst source regions. Journal of Geophysical Research, 1999, 104, 28279-28293.	3.3	30
46	Substorms as nonequilibrium transitions of the magnetosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2001, 63, 1399-1406.	1.6	30
47	Spatiotemporal activity of magnetic storms. Journal of Geophysical Research, 1999, 104, 12239-12250.	3.3	29
48	Numerical study of mode conversion between lower hybrid and whistler waves on shortâ€scale density striations. Journal of Geophysical Research, 2008, 113, .	3.3	29
49	One-dimensional direct current resistivity due to strong turbulence. Physics of Fluids, 1981, 24, 832.	1.4	28
50	Efficient Parametric Decay in Dissipative Media. Physical Review Letters, 1983, 51, 463-466.	7.8	28
51	Strong Langmuir Turbulence in One and Two Dimensions. Physical Review Letters, 1981, 46, 346-349.	7.8	27
52	Electronmagnetohydrodynamic response of a plasma to an external current pulse. Physics of Plasmas, 1996, 3, 1484-1494.	1.9	27
53	Lower hybrid waves upstream of comets and their implications for the comet Halley "bow wave― Journal of Geophysical Research, 1988, 93, 9577-9583.	3.3	26
54	An empirical model relating the auroral geomagnetic activity to the interplanetary magnetic field. Geophysical Research Letters, 1993, 20, 1731-1734.	4.0	26

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55	Enhanced ionospheric ELF/VLF generation efficiency by multiple timescale modulated heating. Geophysical Research Letters, 2007, 34, .	4.0	25
56	HF-driven currents in the polar ionosphere. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	25
57	Effect of anomalous electron heating on the transpolar potential in the LFM global MHD model. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	24
58	Interpretation of soliton formation and parametric instabilities. Physics of Fluids, 1975, 18, 1397.	1.4	23
59	Excitation of the earthâ€ionosphere waveguide by an ELF source in the ionosphere. Radio Science, 1982, 17, 1321-1326.	1.6	23
60	An interhemispheric model of artificial ionospheric ducts. Radio Science, 2006, 41, n/a-n/a.	1.6	23
61	Model of red sprites due to intracloud fractal lightning discharges. Radio Science, 1998, 33, 1655-1668.	1.6	22
62	Resonance absorption of Alfvén waves at cometâ€ <b>s</b> olar wind interaction regions. Geophysical Research Letters, 1988, 15, 740-743.	4.0	21
63	Lower hybrid turbulence at cometary bow wave and acceleration of cometary protons. Journal of Geophysical Research, 1993, 98, 1325-1331.	3.3	21
64	First demonstration of HF-driven ionospheric currents. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	21
65	Generation and detection of super small striations by <i>F</i> region HF heating. Journal of Geophysical Research: Space Physics, 2014, 119, 6000-6011.	2.4	21
66	Combining global and multi-scale features in a description of the solar wind-magnetosphere coupling. Annales Geophysicae, 2003, 21, 1913-1929.	1.6	21
67	Is the magnetosphere a lens for MHD waves?. Geophysical Research Letters, 1993, 20, 2809-2812.	4.0	20
68	Global and multiscale aspects of magnetospheric dynamics in local-linear filters. Journal of Geophysical Research, 2002, 107, SMP 15-1.	3.3	20
69	Collective radio-emission from plasmas. Space Science Reviews, 1979, 24, 511.	8.1	19
70	The self-focusing instability in the presence of density irregularities in the ionosphere. Journal of Geophysical Research, 1996, 101, 2453-2460.	3.3	19
71	Three-dimensional MHD simulations of the steady state magnetosphere with northward interplanetary magnetic field. Journal of Geophysical Research, 2001, 106, 275-287.	3.3	19
72	Phase transition-like behavior of magnetospheric substorms: Global MHD simulation results. Journal of Geophysical Research, 2003, 108, .	3.3	18

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73	Generation of ELF and ULF electromagnetic waves by modulated heating of the ionospheric F2 region. Journal of Geophysical Research, 2012, 117, .	3.3	18
74	Attenuation of whistler waves through conversion to lower hybrid waves in the lowâ€altitude ionosphere. Journal of Geophysical Research, 2012, 117, .	3.3	18
75	Ion-acoustic shocks with self-regulated ion reflection and acceleration. Physics of Plasmas, 2016, 23, .	1.9	18
76	Neurocognitive effects of umami: association with eating behavior and food choice. Neuropsychopharmacology, 2018, 43, 2009-2016.	5.4	17
77	the CIV processes in the CRIT experiments. Geophysical Research Letters, 1992, 19, 605-608.	4.0	16
78	Generation and evolution of intense ion cyclotron turbulence by artificial plasma cloud in the magnetosphere. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	16
79	Control of the energetic proton flux in the inner radiation belt by artificial means. Journal of Geophysical Research, 2009, 114, .	3.3	16
80	Generation of whistler waves by continuous HF heating of the upper ionosphere. Radio Science, 2016, 51, 1188-1198.	1.6	16
81	Modulational instability of lower hybrid waves at the magnetopause. Journal of Geophysical Research, 1994, 99, 23735.	3.3	15
82	Relationship between the ionospheric conductance, field aligned current, and magnetopause geometry: Global MHD simulations. Planetary and Space Science, 2005, 53, 873-879.	1.7	15
83	Incidence angle dependence of Langmuir turbulence and artificial ionospheric layers driven by high-power HF-heating. Journal of Plasma Physics, 2015, 81, .	2.1	15
84	ELF emission generated by the HAARP HF-heater using varying frequency and polarization. Radiophysics and Quantum Electronics, 1999, 42, 639-646.	0.5	14
85	Comparing ground magnetic field perturbations from global MHD simulations with magnetometer data for the 10 January 1997 magnetic storm event. Journal of Geophysical Research, 2002, 107, SMP 11-1-SMP 11-10.	3.3	14
86	The physics of substorms as revealed by the ISTP. Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science, 1999, 24, 189-202.	0.2	13
87	Generation of shear Alfvén waves by a rotating magnetic field source: Three-dimensional simulations. Physics of Plasmas, 2011, 18, .	1.9	13
88	Simulation of the March 9, 1995 Substorm and Initial Comparison to Data. Geophysical Monograph Series, 2013, , 237-245.	0.1	13
89	HF wave propagation and induced ionospheric turbulence in the magnetic equatorial region. Journal of Geophysical Research: Space Physics, 2016, 121, 2727-2742.	2.4	13
90	Model of red sprite optical spectra. Geophysical Research Letters, 1997, 24, 833-836.	4.0	12

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91	Studies of the ionospheric turbulence excited by the fourth gyroharmonic at HAARP. Journal of Geophysical Research: Space Physics, 2015, 120, 6646-6660.	2.4	12
92	Ion-acoustic instabilities driven by an ion velocity ring. Journal of Plasma Physics, 1985, 34, 467-479.	2.1	11
93	Long-Range Cross-Field Ion-Beam Propagation in the Diamagnetic Regime. Physical Review Letters, 1988, 61, 94-97.	7.8	11
94	Hybrid simulations of whistler waves generation and current closure by a pulsed tether in the ionosphere. Geophysical Research Letters, 1994, 21, 1015-1018.	4.0	11
95	Scattering of Magnetic Mirror Trapped Fast Electrons by a Shear Alfvén Wave. Physical Review Letters, 2012, 108, 105002.	7.8	11
96	Simulations of ionospheric turbulence produced by HF heating near the upper hybrid layer. Radio Science, 2016, 51, 704-717.	1.6	11
97	Active Nonlinear Ultralow-Frequency Generation in the Ionosphere. Physical Review Letters, 1986, 57, 641-644.	7.8	10
98	Cerenkov excitation of whistler/helicon waves by ionospheric HF heating. Geophysical Research Letters, 1994, 21, 1767-1770.	4.0	10
99	A global MHD simulation of an event with a quasi-steady northward IMF component. Annales Geophysicae, 2007, 25, 1345-1358.	1.6	10
100	Numerical study of anomalous absorption of O mode waves on magnetic fieldâ€eligned striations. Geophysical Research Letters, 2015, 42, 2603-2611.	4.0	10
101	Switch opening time reduction in high power photoconducting semiconductor switches. Optics Communications, 1996, 124, 443-447.	2.1	9
102	Focusing of HF radio-waves by ionospheric ducts. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 1674-1680.	1.6	9
103	Vlasov simulations of electron acceleration by radio frequency heating near the upper hybrid layer. Physics of Plasmas, 2017, 24, 102904.	1.9	9
104	ELF generation in the lower ionosphere via collisional parametric decay. Journal of Geophysical Research, 1986, 91, 10097-10107.	3.3	8
105	Direct Cerenkov excitation of waveguide modes by a mobile ionospheric heater. Radio Science, 1996, 31, 859-867.	1.6	8
106	Generation of ELF waves during HF heating of the ionosphere at midlatitudes. Radio Science, 2016, 51, 962-971.	1.6	8
107	Alpha particle heating at comet-solar wind interaction regions. Journal of Geophysical Research, 1995, 100, 7891.	3.3	7
108	Comment on "Can gamma radiation be produced in the electrical environment above thunderstorms― Geophysical Research Letters, 1996, 23, 2283-2284.	4.0	7

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109	Remote photometry of the atmosphere using microwave breakdown. Journal of Geophysical Research, 1994, 99, 10387.	3.3	6
110	Gamma ray flashes by plasma effects in the middle atmosphere. Physics of Plasmas, 2001, 8, 4954-4959.	1.9	6
111	Penetration of ELF currents and electromagnetic fields into the Earth's equatorial ionosphere. Journal of Geophysical Research, 2009, 114, .	3.3	6
112	Ballistic crossâ€field ion beam propagation in a magnetoplasma. Physics of Fluids B, 1991, 3, 1075-1090.	1.7	5
113	The flight of the tethered satellite system. Eos, 1992, 73, 321-321.	0.1	5
114	Miniature photoconducting capacitor array as a source for tunable THz radiation. Review of Scientific Instruments, 2000, 71, 2380-2385.	1.3	5
115	Comment on "High altitude discharges and gamma-ray flashes: A manifestation of runaway breakdown―by Yuri Taranenko and Robert Roussel-Dupré. Geophysical Research Letters, 1997, 24, 2643-2644.	4.0	4
116	Diffraction model of ionospheric irregularity-induced heater-wave pattern detected on the WIND satellite. Geophysical Research Letters, 2000, 27, 317-320.	4.0	4
117	Perception of Synthetic and Natural Speech by Adults with Visual Impairments. Journal of Visual Impairment and Blindness, 2009, 103, 403-414.	0.7	4
118	Global and local geospace modeling in ISTP. Space Science Reviews, 1995, 71, 671-690.	8.1	3
119	Investigation of 3D Energetic Particle Transport Inside Quiet-Time Magnetosphere using Particle Tracing in Global MHD Model. Geophysical Monograph Series, 0, , 307-318.	0.1	3
120	Pitch angle scattering of relativistic electrons near electromagnetic ion cyclotron resonances in diverging magnetic fields. Plasma Physics and Controlled Fusion, 2017, 59, 104003.	2.1	3
121	Simulations of the Generation of Energetic Electrons and the Formation of Descending Artificial Plasma Layers During HF Heating at Arecibo. Journal of Geophysical Research: Space Physics, 2018, 123, 10,301.	2.4	3
122	Spatio-temporal development of the filaments due to the thermal self-focusing instability near the critical surface in ionospheric plasmas. Radiophysics and Quantum Electronics, 1999, 42, 589-600.	0.5	2
123	Modeling ionospheric absorption modified by anomalous heating during substorms. Geophysical Research Letters, 2001, 28, 487-490.	4.0	2
124	Enhanced loss of magnetic-mirror-trapped fast electrons by a shear Alfvén wave. Physics of Plasmas, 2014, 21, 055705.	1.9	2
125	Generation of shear Alfvén waves by repetitive electron heating. Journal of Geophysical Research: Space Physics, 2016, 121, 567-577.	2.4	2
126	Ferrite based antennae for launching Alfvén waves. Review of Scientific Instruments, 2019, 90, 083505.	1.3	2

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127	The Effect of Plasma Releases on Equatorial Spread F—a Simulation Study. Frontiers in Astronomy and Space Sciences, 2019, 6, .	2.8	2
128	Triggering the HF breakdown of the atmosphere by barium release. Geophysical Research Letters, 1993, 20, 471-474.	4.0	1
129	Collisionless Breakdown of Magnetic Insulation in Plasmas. Physical Review Letters, 1996, 76, 3120-3123.	7.8	1
130	Three-dimensional MHD simulations of the Earth's magnetosphere on Feb 9-10 1995 for northward interplanetary magnetic field and comparison of the lobe field with Geotail observations. Geophysical Research Letters, 2001, 28, 3835-3838.	4.0	1
131	Demonstration of Sub-Millimeter Radiation Generation from Static Field by a Superluminous Ionization front in Semiconductor Capacitor Array. , 2002, , 27-32.		1
132	HF-driven currents in the polar ionosphere. , 2011, , .		1
133	Ionspheric modifcations using mobile, high power HF transmitters based on TPM technology. , 2015, , .		1
134	Single Domain Nanoparticle Transmitters. , 2019, , .		1
135	Global MHD Simulation of Actual Magnetospheric Substorm Events. Astrophysics and Space Science Library, 1998, , 645-650.	2.7	1
136	Effects of Northward Turnings on the Initiation of Substorms in Global MHD Simulations. Astrophysics and Space Science Library, 1998, , 287-290.	2.7	1
137	Coupling between Local and Global Activity during the Substorm Expansion Phase: Results from MHD Simulations and Comparison to Observations. Astrophysics and Space Science Library, 1998, , 169-174.	2.7	1
138	Nonlinear Waves. Eos, 1984, 65, 735.	0.1	0
139	Breakdown of magnetic insulation in semiconductor plasmas. IEEE Transactions on Plasma Science, 1996, 24, 1095-1100.	1.3	Ο
140	Generation of tunable bandwidth-controllable terahertz radiation. , 1999, 3795, 477.		0
141	EMHD response of a maguetoplasma to an external current source. , 0, , .		Ο
142	Reply to comment on "The magnetic response of the ionosphere to pulsed HF heating―by M. T. Rietveld and P. Stubbe. Geophysical Research Letters, 2006, 33, .	4.0	0
143	Particle-In-cell simulation of resonant-cavity-enhanced extraordinary transmission through sub-wavelength plasmonic structure. , 2007, , .		0
144	Helicon waves in the magnetotail. Journal of Geophysical Research, 2009, 114, .	3.3	0

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145	First demonstration of HF-driven ionospheric currents. , 2011, , .		Ο
146	Modeling pitch angle scattering of radiation belt particles by the injection of low frequency waves with F-region HF-driven ionospheric currents. , 2011, , .		0
147	10.1063/1.3562118.1., 2011,,.		0