

# Charles F Kennel

## List of Publications by Citations

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91  
papers

11,405  
citations

49  
h-index

98  
g-index

98  
ext. papers

11,861  
ext. citations

10.4  
avg, IF

5.74  
L-index

#	Paper	IF	Citations
91	Limit on stably trapped particle fluxes. <i>Journal of Geophysical Research</i> , <b>1966</b> , 71, 1-28		2234
90	Topside current instabilities. <i>Journal of Geophysical Research</i> , <b>1971</b> , 76, 3055-3078		759
89	Velocity Space Diffusion from Weak Plasma Turbulence in a Magnetic Field. <i>Physics of Fluids</i> , <b>1966</b> , 9, 2377		759
88	Confinement of the Crab pulsar's wind by its supernova remnant. <i>Astrophysical Journal</i> , <b>1984</b> , 283, 694	4.7	703
87	Pitch-angle diffusion of radiation belt electrons within the plasmasphere. <i>Journal of Geophysical Research</i> , <b>1972</b> , 77, 3455-3474		616
86	Magnetohydrodynamic model of Crab nebula radiation. <i>Astrophysical Journal</i> , <b>1984</b> , 283, 710	4.7	426
85	Consequences of a magnetospheric plasma. <i>Reviews of Geophysics</i> , <b>1969</b> , 7, 379	23.1	353
84	Relativistic electron precipitation during magnetic storm main phase. <i>Journal of Geophysical Research</i> , <b>1971</b> , 76, 4446-4453		340
83	VLF electric field observations in the magnetosphere. <i>Journal of Geophysical Research</i> , <b>1970</b> , 75, 6136-6152		283
82	Electron precipitation pulsations. <i>Journal of Geophysical Research</i> , <b>1970</b> , 75, 1279-1289		227
81	Can the ionosphere regulate magnetospheric convection?. <i>Journal of Geophysical Research</i> , <b>1973</b> , 78, 2837-2851		195
80	Low-Frequency Whistler Mode. <i>Physics of Fluids</i> , <b>1966</b> , 9, 2190		189
79	Changes in magnetospheric configuration during the substorm growth phase. <i>Journal of Geophysical Research</i> , <b>1972</b> , 77, 3361-3370		173
78	Characteristics of ion flow in the quiet state of the inner plasma sheet. <i>Geophysical Research Letters</i> , <b>1993</b> , 20, 1711-1714	4.9	153
77	Collisionless shock waves in high $\beta$ plasmas: 1. <i>Journal of Geophysical Research</i> , <b>1967</b> , 72, 3303-3326		147
76	Plasma wave observations at comet giacobini-zinner. <i>Science</i> , <b>1986</b> , 232, 377-81	33.3	141
75	Evidence for a magnetosphere at Ganymede from plasma-wave observations by the Galileo spacecraft. <i>Nature</i> , <b>1996</b> , 384, 535-537	50.4	137

74	Nonlinear, dispersive, elliptically polarized Alfvén waves. <i>Physics of Fluids</i> , <b>1988</b> , 31, 1949		136
73	A parametric survey of the first critical Mach number for a fast MHD shock. <i>Journal of Plasma Physics</i> , <b>1984</b> , 32, 429-441	2.7	135
72	Galileo Plasma Wave Observations in the Io Plasma Torus and Near Io. <i>Science</i> , <b>1996</b> , 274, 391-392	33.3	127
71	Quasi-trapped VLF propagation in the outer magnetosphere. <i>Journal of Geophysical Research</i> , <b>1967</b> , 72, 857-870		112
70	Escape of heated ions upstream of quasi-parallel shocks. <i>Geophysical Research Letters</i> , <b>1982</b> , 9, 531-534	4.9	111
69	Thermal anisotropies and electromagnetic instabilities in the solar wind. <i>Journal of Geophysical Research</i> , <b>1968</b> , 73, 6149-6165		111
68	Electron pitch-angle diffusion driven by oblique whistler-mode turbulence. <i>Journal of Plasma Physics</i> , <b>1971</b> , 6, 589-606	2.7	109
67	Polarization of the auroral electrojet. <i>Journal of Geophysical Research</i> , <b>1972</b> , 77, 2835-2850		108
66	First measurements of plasma waves near Mars. <i>Nature</i> , <b>1989</b> , 341, 607-609	50.4	104
65	Relativistic nonlinear plasma waves in a magnetic field. <i>Journal of Plasma Physics</i> , <b>1976</b> , 15, 335-355	2.7	101
64	Linear theory of equatorial spread F. <i>Journal of Geophysical Research</i> , <b>1975</b> , 80, 4581-4590		95
63	Detection of Electric-Field Turbulence in the Earth's Bow Shock. <i>Physical Review Letters</i> , <b>1968</b> , 21, 1761-1764		92
62	OGO 5 observations of electrostatic turbulence in bow shock magnetic structures. <i>Journal of Geophysical Research</i> , <b>1970</b> , 75, 3751-3768		92
61	Unstable growth of unducted whistlers propagating at an angle to the geomagnetic field. <i>Journal of Geophysical Research</i> , <b>1967</b> , 72, 871-878		87
60	Climate policy: Ditch the 2°C warming goal. <i>Nature</i> , <b>2014</b> , 514, 30-1	50.4	85
59	First plasma wave observations at Neptune. <i>Science</i> , <b>1989</b> , 246, 1494-8	33.3	83
58	Auroral micropulsation instability. <i>Journal of Geophysical Research</i> , <b>1970</b> , 75, 1863-1878		78
57	Isotope Separation in Plasmas by Use of Ion Cyclotron Resonance. <i>Physical Review Letters</i> , <b>1976</b> , 37, 1547-1550	7.6	

56	Small amplitude waves in high $\beta$ plasmas. <i>Journal of Plasma Physics</i> , <b>1969</b> , 3, 55-74	2.7	76
55	Global simulation of the time-dependent magnetosphere. <i>Geophysical Research Letters</i> , <b>1978</b> , 5, 609-612	4.9	74
54	ISEE-1 and -2 observations of magnetic field strength overshoots in quasi-perpendicular bow shocks. <i>Geophysical Research Letters</i> , <b>1982</b> , 9, 1037-1040	4.9	69
53	Plasma wave spectra near slow mode shocks in the distant magnetotail. <i>Geophysical Research Letters</i> , <b>1984</b> , 11, 1050-1053	4.9	68
52	Global simulations of the three-dimensional magnetosphere. <i>Geophysical Research Letters</i> , <b>1981</b> , 8, 257-260	4.9	68
51	Satellite studies of magnetospheric substorms on August 15, 1968: 8. Ogo 5 plasma wave observations. <i>Journal of Geophysical Research</i> , <b>1973</b> , 78, 3119-3130		66
50	Lightning and plasma wave observations from the galileo flyby of venus. <i>Science</i> , <b>1991</b> , 253, 1522-5	33.3	64
49	Structure and evolution of small-amplitude intermediate shock waves. <i>Physics of Fluids B</i> , <b>1990</b> , 2, 253-269		62
48	Relativistic magnetohydrodynamic winds of finite temperature. <i>Geophysical and Astrophysical Fluid Dynamics</i> , <b>1983</b> , 26, 147-222	1.4	61
47	Jupiter's Magnetosphere. <i>Annual Review of Astronomy and Astrophysics</i> , <b>1977</b> , 15, 389-436	31.7	59
46	Detection of Jovian whistler mode chorus; Implications for the Io torus aurora. <i>Geophysical Research Letters</i> , <b>1980</b> , 7, 45-48	4.9	57
45	High-Frequency Hall Current Instability. <i>Radio Science</i> , <b>1971</b> , 6, 209-213	1.4	54
44	Fast time resolved spectral analysis of VLF banded emissions. <i>Journal of Geophysical Research</i> , <b>1971</b> , 76, 2366-2381		51
43	Magnetospheres of the planets. <i>Space Science Reviews</i> , <b>1973</b> , 14, 511-533	7.5	50
42	Ultrarelativistic electromagnetic pulses in plasmas. <i>Physical Review A</i> , <b>1981</b> , 23, 1906-1914	2.6	49
41	MHD intermediate shock discontinuities. Part 1. Rankine-Hugoniot conditions. <i>Journal of Plasma Physics</i> , <b>1989</b> , 42, 299-319	2.7	46
40	Resonant particle instabilities in a uniform magnetic field. <i>Journal of Plasma Physics</i> , <b>1967</b> , 1, 75-80	2.7	46
39	Chaos in driven Alfvén systems. <i>Physics of Fluids B</i> , <b>1990</b> , 2, 2581-2590		45

38	Finite Larmor radius hydromagnetics. <i>Annals of Physics</i> , <b>1966</b> , 38, 63-94	2.5	43
37	Correlated whistler and electron plasma oscillation bursts detected on ISEE-3. <i>Geophysical Research Letters</i> , <b>1980</b> , 7, 129-132	4.9	42
36	ISEE-3 wave measurements in the distant geomagnetic tail and boundary layer. <i>Geophysical Research Letters</i> , <b>1984</b> , 11, 335-338	4.9	41
35	Ultrarelativistic waves in overdense electron-positron plasmas. <i>Physical Review A</i> , <b>1982</b> , 25, 1023-1039	2.6	40
34	Resonantly unstable off-angle hydromagnetic waves. <i>Journal of Plasma Physics</i> , <b>1967</b> , 1, 81-104	2.7	37
33	High time resolution plasma wave and magnetic field observations of the Jovian bow shock. <i>Geophysical Research Letters</i> , <b>1985</b> , 12, 183-186	4.9	34
32	Critical Mach numbers in classical magnetohydrodynamics. <i>Journal of Geophysical Research</i> , <b>1987</b> , 92, 13427		33
31	Structure and evolution of time-dependent intermediate shocks. <i>Physical Review Letters</i> , <b>1992</b> , 68, 56-59	7.4	32
30	Pulsar magnetospheres. <i>Space Science Reviews</i> , <b>1979</b> , 24, 407	7.5	32
29	Collisionless Shock Waves. <i>Scientific American</i> , <b>1991</b> , 264, 106-113	0.5	31
28	The role of intermediate shocks in magnetic reconnection. <i>Geophysical Research Letters</i> , <b>1992</b> , 19, 229-232	3.9	31
27	On the marginally stable saturation spectrum of unstable type I equatorial electrojet irregularities. <i>Journal of Geophysical Research</i> , <b>1974</b> , 79, 249-266		30
26	Communicating Climate Knowledge. <i>Current Anthropology</i> , <b>2012</b> , 53, 226-244	2.1	27
25	Cosmic-Ray Generation by Pulsars. <i>Physical Review Letters</i> , <b>1973</b> , 31, 1364-1367	7.4	26
24	Shock structure in classical magnetohydrodynamics. <i>Journal of Geophysical Research</i> , <b>1988</b> , 93, 8545		23
23	The electromagnetic interchange mode in a partly-ionized collisional plasma. <i>Journal of Plasma Physics</i> , <b>1975</b> , 14, 121-134	2.7	19
22	Finite $\Omega$ drift Alfvén instability. <i>Journal of Geophysical Research</i> , <b>1973</b> , 78, 7521-7530		16
21	Making climate science more relevant. <i>Science</i> , <b>2016</b> , 354, 421-422	33.3	15

20	Getting serious about the new realities of global climate change. <i>Bulletin of the Atomic Scientists</i> , <b>2013</b> , 69, 49-57	1.6	11
19	Trail of the Crab progenitor star. <i>Nature</i> , <b>1983</b> , 301, 586-587	50.4	11
18	The collisional drift mode in a partly-ionized plasma. <i>Journal of Plasma Physics</i> , <b>1975</b> , 14, 135-142	2.7	10
17	Possibility of Landau damping of gravitational waves. <i>Physical Review D</i> , <b>1979</b> , 19, 1070-1083	4.9	10
16	Refraction by the Electromagnetic Pump of Parametrically Generated Electrostatic Waves. <i>Physical Review Letters</i> , <b>1973</b> , 30, 597-600	7.4	10
15	The effects of density gradients on the convective amplification of upper hybrid waves in the magnetosphere. <i>Planetary and Space Science</i> , <b>1985</b> , 33, 1331-1357	2	9
14	Influence of Arctic sea-ice variability on Pacific trade winds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 2824-2834	11.5	8
13	Effect of parallel refraction on magnetospheric upper hybrid waves. <i>Geophysical Research Letters</i> , <b>1984</b> , 11, 865-868	4.9	8
12	High Ion Pitch-Angle Instability. <i>Physical Review Letters</i> , <b>1966</b> , 17, 245-246	7.4	7
11	Science and government. An Earth systems science agency. <i>Science</i> , <b>2008</b> , 321, 44-5	33.3	5
10	Knowledge action networks and regional climate change adaptation. <i>Technovation</i> , <b>2013</b> , 33, 107	7.9	3
9	The magnetohydrodynamic Rankine-Hugoniot relations. <i>AIP Conference Proceedings</i> , <b>1994</b> ,	0	2
8	Space science. Coping with uncertainty in space science planning. <i>Science</i> , <b>2014</b> , 343, 140-1	33.3	1
7	Plasma waves at collisionless shocks in space: The observations of Frederick L. Scarf. <i>Advances in Space Research</i> , <b>1991</b> , 11, 3-14	2.4	1
6	The gathering anthropocene crisis. <i>Infrastructure Asset Management</i> , <b>2021</b> , 8, 83-95	1.8	1
5	Beyond 2020: converging crises demand integrated responses: Statement by the RACC International Advisory Committee following the RACC-12 International Forum. <i>Sustainability Science</i> , <b>2020</b> , 16, 1-3	6.4	1
4	Addressing our planetary crisis: Consensus statement from the presenters and International Advisory Committee of the Regional Action on Climate Change (RACC) Symposium held in conjunction with the Kyoto-based Science and Technology in Society (STS) Forum, 1 October 2021. <i>Sustainability Science</i> , <b>2021</b> , 17, 1-3	6.4	0
3	Rosenbluth and Sagdeev in Trieste: The Birth of Modern Space Plasma Physics. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA027859	2.6	

- 2 Louis J. Lanzerotti receives 2011 William Bowie Medal: Citation. *Eos*, **2012**, 93, 6-6 1.5
- 1 Angelopoulos, Schrag, and Tabazadeh receive 2001 James B. Macelwane Medal. *Eos*, **2002**, 83, 138 1.5