

# Charles F Kennel

## List of Publications by Year in descending order

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95  
papers

12,750  
citations

36271

51  
h-index

42364

92  
g-index

98  
all docs

98  
docs citations

98  
times ranked

4041  
citing authors

#	ARTICLE	IF	CITATIONS
1	Addressing our planetary crisis. Sustainability Science, 2022, 17, 5-7.	2.5	5
2	The gathering anthropocene crisis. Infrastructure Asset Management, 2021, 8, 83-95.	1.2	7
3	Beyond 2020: converging crises demand integrated responses. Sustainability Science, 2021, 16, 691-693.	2.5	2
4	Influence of Arctic sea-ice variability on Pacific trade winds. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2824-2834.	3.3	15
5	Rosenbluth and Sagdeev in Trieste: The Birth of Modern Space Plasma Physics. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027859.	0.8	0
6	Making climate science more relevant. Science, 2016, 354, 421-422.	6.0	18
7	Planetary vital signs. Nature Climate Change, 2015, 5, 969-970.	8.1	16
8	Coping with Uncertainty in Space Science Planning. Science, 2014, 343, 140-141.	6.0	1
9	Climate policy: Ditch the 2°C warming goal. Nature, 2014, 514, 30-31.	13.7	99
10	Knowledge action networks and regional climate change adaptation. Technovation, 2013, 33, 107.	4.2	3
11	Afterword: Speaking Scientific Truth to Power. The Cambridge Journal of Anthropology, 2013, 31, .	1.5	0
12	Getting serious about the new realities of global climate change. Bulletin of the Atomic Scientists, 2013, 69, 49-57.	0.2	12
13	Communicating Climate Knowledge. Current Anthropology, 2012, 53, 226-244.	0.8	34
14	Louis J. Lanzerotti receives 2011 William Bowie Medal: Citation. Eos, 2012, 93, 6-6.	0.1	0
15	An Earth Systems Science Agency. Science, 2008, 321, 44-45.	6.0	5
16	Where We Are Now, Where We Are Going: Scripps Science in Two Centuries. Oceanography, 2003, 16, 8-10.	0.5	1
17	Angelopoulos, Schrag, and Tabazadeh receive 2001 James B. Macelwane Medal. Eos, 2002, 83, 138.	0.1	0
18	Galileo Plasma Wave Observations in the Io Plasma Torus and Near Io. Science, 1996, 274, 391-392.	6.0	131

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19	Evidence for a magnetosphere at Ganymede from plasma-wave observations by the Galileo spacecraft. <i>Nature</i> , 1996, 384, 535-537.	13.7	152
20	The magnetohydrodynamic Rankine-Hugoniot relations. <i>AIP Conference Proceedings</i> , 1994, , .	0.3	2
21	Characteristics of ion flow in the quiet state of the inner plasma sheet. <i>Geophysical Research Letters</i> , 1993, 20, 1711-1714.	1.5	177
22	Structure and evolution of time-dependent intermediate shocks. <i>Physical Review Letters</i> , 1992, 68, 56-59.	2.9	34
23	The role of intermediate shocks in magnetic reconnection. <i>Geophysical Research Letters</i> , 1992, 19, 229-232.	1.5	34
24	Lightning and Plasma Wave Observations from the Galileo Flyby of Venus. <i>Science</i> , 1991, 253, 1522-1525.	6.0	71
25	Plasma waves at collisionless shocks in space: The observations of Frederick L. Scarf. <i>Advances in Space Research</i> , 1991, 11, 3-14.	1.2	3
26	Collisionless Shock Waves. <i>Scientific American</i> , 1991, 264, 106-113.	1.0	41
27	Fusion policy advisory committee: final report. <i>Journal of Fusion Energy</i> , 1991, 10, 127-156.	0.5	4
28	Structure and evolution of small-amplitude intermediate shock waves. <i>Physics of Fluids B</i> , 1990, 2, 253-269.	1.7	65
29	Chaos in driven Alfvén systems. <i>Physics of Fluids B</i> , 1990, 2, 2581-2590.	1.7	51
30	First measurements of plasma waves near Mars. <i>Nature</i> , 1989, 341, 607-609.	13.7	109
31	First Plasma Wave Observations at Neptune. <i>Science</i> , 1989, 246, 1494-1498.	6.0	91
32	MHD intermediate shock discontinuities. Part 1. Rankine-Hugoniot conditions. <i>Journal of Plasma Physics</i> , 1989, 42, 299-319.	0.7	55
33	Shock structure in classical magnetohydrodynamics. <i>Journal of Geophysical Research</i> , 1988, 93, 8545-8557.	3.3	31
34	Nonlinear, dispersive, elliptically polarized Alfvén waves. <i>Physics of Fluids</i> , 1988, 31, 1949.	1.4	146
35	Critical Mach numbers in classical magnetohydrodynamics. <i>Journal of Geophysical Research</i> , 1987, 92, 13427-13437.	3.3	35
36	Plasma Wave Observations at Comet Giacobini-Zinner. <i>Science</i> , 1986, 232, 377-381.	6.0	154

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37	The effects of density gradients on the convective amplification of upper hybrid waves in the magnetosphere. Planetary and Space Science, 1985, 33, 1331-1357.	0.9	9
38	High time resolution plasma wave and magnetic field observations of the Jovian bow shock. Geophysical Research Letters, 1985, 12, 183-186.	1.5	36
39	ISEEâ€³ wave measurements in the distant geomagnetic tail and boundary layer. Geophysical Research Letters, 1984, 11, 335-338.	1.5	44
40	Effect of parallel refraction on magnetospheric upper hybrid waves. Geophysical Research Letters, 1984, 11, 865-868.	1.5	9
41	Plasma wave spectra near slow mode shocks in the distant magnetotail. Geophysical Research Letters, 1984, 11, 1050-1053.	1.5	73
42	A parametric survey of the first critical Mach number for a fast MHD shock. Journal of Plasma Physics, 1984, 32, 429-441.	0.7	148
43	Confinement of the Crab pulsar's wind by its supernova remnant. Astrophysical Journal, 1984, 283, 694.	1.6	763
44	Magnetohydrodynamic model of Crab nebula radiation. Astrophysical Journal, 1984, 283, 710.	1.6	467
45	Trail of the Crab progenitor star. Nature, 1983, 301, 586-587.	13.7	11
46	Relativistic magnetohydrodynamic winds of finite temperature. Geophysical and Astrophysical Fluid Dynamics, 1983, 26, 147-222.	0.4	64
47	Ultrarelativistic waves in overdense electron-positron plasmas. Physical Review A, 1982, 25, 1023-1039.	1.0	43
48	Escape of heated ions upstream of quasiâ€perpendicular shocks. Geophysical Research Letters, 1982, 9, 531-534.	1.5	120
49	ISEEâ€¹ and â€² observations of magnetic field strength overshoots in quasiâ€perpendicular bow shocks. Geophysical Research Letters, 1982, 9, 1037-1040.	1.5	75
50	Global simulations of the threeâ€dimensional magnetosphere. Geophysical Research Letters, 1981, 8, 257-260.	1.5	71
51	Ultrarelativistic electromagnetic pulses in plasmas. Physical Review A, 1981, 23, 1906-1914.	1.0	50
52	Detection of Jovian whistler mode chorus; Implications for the Io torus aurora. Geophysical Research Letters, 1980, 7, 45-48.	1.5	63
53	Correlated whistler and electron plasma oscillation bursts detected on ISEEâ€³. Geophysical Research Letters, 1980, 7, 129-132.	1.5	50
54	Possibility of Landau damping of gravitational waves. Physical Review D, 1979, 19, 1070-1083.	1.6	14

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55	Pulsar magnetospheres. <i>Space Science Reviews</i> , 1979, 24, 407.	3.7	32
56	Global simulation of the time-dependent magnetosphere. <i>Geophysical Research Letters</i> , 1978, 5, 609-612.	1.5	80
57	Jupiter's Magnetosphere. <i>Annual Review of Astronomy and Astrophysics</i> , 1977, 15, 389-436.	8.1	71
58	Isotope Separation in Plasmas by Use of Ion Cyclotron Resonance. <i>Physical Review Letters</i> , 1976, 37, 1547-1550.	2.9	93
59	Relativistic nonlinear plasma waves in a magnetic field. <i>Journal of Plasma Physics</i> , 1976, 15, 335-355.	0.7	111
60	The collisional drift mode in a partly-ionized plasma. <i>Journal of Plasma Physics</i> , 1975, 14, 135-142.	0.7	12
61	The electromagnetic interchange mode in a partly-ionized collisional plasma. <i>Journal of Plasma Physics</i> , 1975, 14, 121-134.	0.7	24
62	Linear theory of equatorial spread $F$ . <i>Journal of Geophysical Research</i> , 1975, 80, 4581-4590.	3.3	105
63	On the marginally stable saturation spectrum of unstable type I equatorial electrojet irregularities. <i>Journal of Geophysical Research</i> , 1974, 79, 249-266.	3.3	33
64	Magnetospheres of the planets. <i>Space Science Reviews</i> , 1973, 14, 511-533.	3.7	55
65	Can the ionosphere regulate magnetospheric convection?. <i>Journal of Geophysical Research</i> , 1973, 78, 2837-2851.	3.3	211
66	Satellite studies of magnetospheric substorms on August 15, 1968: 8. Ogo 5 plasma wave observations. <i>Journal of Geophysical Research</i> , 1973, 78, 3119-3130.	3.3	71
67	Finite $\hat{v}^2$ drift Alfvén instability. <i>Journal of Geophysical Research</i> , 1973, 78, 7521-7530.	3.3	18
68	Cosmic-Ray Generation by Pulsars. <i>Physical Review Letters</i> , 1973, 31, 1364-1367.	2.9	32
69	Refraction by the Electromagnetic Pump of Parametrically Generated Electrostatic Waves. <i>Physical Review Letters</i> , 1973, 30, 597-600.	2.9	11
70	Polarization of the auroral electrojet. <i>Journal of Geophysical Research</i> , 1972, 77, 2835-2850.	3.3	118
71	Changes in magnetospheric configuration during the substorm growth phase. <i>Journal of Geophysical Research</i> , 1972, 77, 3361-3370.	3.3	178
72	Pitch-angle diffusion of radiation belt electrons within the plasmasphere. <i>Journal of Geophysical Research</i> , 1972, 77, 3455-3474.	3.3	688

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73	Fast time resolved spectral analysis of VLF banded emissions. Journal of Geophysical Research, 1971, 76, 2366-2381.	3.3	52
74	Topside current instabilities. Journal of Geophysical Research, 1971, 76, 3055-3078.	3.3	842
75	Relativistic electron precipitation during magnetic storm main phase. Journal of Geophysical Research, 1971, 76, 4446-4453.	3.3	397
76	High-frequency Hall Current Instability. Radio Science, 1971, 6, 209-213.	0.8	59
77	Electron pitch-angle diffusion driven by oblique whistler-mode turbulence. Journal of Plasma Physics, 1971, 6, 589-606.	0.7	115
78	Electron precipitation pulsations. Journal of Geophysical Research, 1970, 75, 1279-1289.	3.3	259
79	Auroral micropulsation instability. Journal of Geophysical Research, 1970, 75, 1863-1878.	3.3	89
80	OGO 5 observations of electrostatic turbulence in bow shock magnetic structures. Journal of Geophysical Research, 1970, 75, 3751-3768.	3.3	98
81	VLF electric field observations in the magnetosphere. Journal of Geophysical Research, 1970, 75, 6136-6152.	3.3	317
82	Consequences of a magnetospheric plasma. Reviews of Geophysics, 1969, 7, 379-419.	9.0	392
83	Small amplitude waves in high $\beta^2$ plasmas. Journal of Plasma Physics, 1969, 3, 55-74.	0.7	80
84	Thermal anisotropies and electromagnetic instabilities in the solar wind. Journal of Geophysical Research, 1968, 73, 6149-6165.	3.3	125
85	Detection of Electric-Field Turbulence in the Earth's Bow Shock. Physical Review Letters, 1968, 21, 1761-1764.	2.9	101
86	Resonant particle instabilities in a uniform magnetic field. Journal of Plasma Physics, 1967, 1, 75-80.	0.7	55
87	Resonantly unstable off-angle hydromagnetic waves. Journal of Plasma Physics, 1967, 1, 81-104.	0.7	39
88	Quasi-trapped VLF propagation in the outer magnetosphere. Journal of Geophysical Research, 1967, 72, 857-870.	3.3	113
89	Unstable growth of unducted whistlers propagating at an angle to the geomagnetic field. Journal of Geophysical Research, 1967, 72, 871-878.	3.3	94
90	Collisionless shock waves in high $\beta^2$ plasmas: 1. Journal of Geophysical Research, 1967, 72, 3303-3326.	3.3	174

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91	Velocity Space Diffusion from Weak Plasma Turbulence in a Magnetic Field. Physics of Fluids, 1966, 9, 2377.	1.4	876
92	Low-Frequency Whistler Mode. Physics of Fluids, 1966, 9, 2190.	1.4	226
93	Finite Larmor radius hydromagnetics. Annals of Physics, 1966, 38, 63-94.	1.0	49
94	Limit on stably trapped particle fluxes. Journal of Geophysical Research, 1966, 71, 1-28.	3.3	2,533
95	High Ion <sup>+</sup> Pitch-Angle Instability. Physical Review Letters, 1966, 17, 245-246.	2.9	7