

Charles F Kennel

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

12,750
citations

36203

51
h-index

42291

92
g-index

98
all docs

98
docs citations

98
times ranked

4041
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Limit on stably trapped particle fluxes. <i>Journal of Geophysical Research</i> , 1966, 71, 1-28. | 3.3 | 2,533 |
| 2 | Velocity Space Diffusion from Weak Plasma Turbulence in a Magnetic Field. <i>Physics of Fluids</i> , 1966, 9, 2377. | 1.4 | 876 |
| 3 | Topside current instabilities. <i>Journal of Geophysical Research</i> , 1971, 76, 3055-3078. | 3.3 | 842 |
| 4 | Confinement of the Crab pulsar's wind by its supernova remnant. <i>Astrophysical Journal</i> , 1984, 283, 694. | 1.6 | 763 |
| 5 | Pitch-angle diffusion of radiation belt electrons within the plasmasphere. <i>Journal of Geophysical Research</i> , 1972, 77, 3455-3474. | 3.3 | 688 |
| 6 | Magnetohydrodynamic model of Crab nebula radiation. <i>Astrophysical Journal</i> , 1984, 283, 710. | 1.6 | 467 |
| 7 | Relativistic electron precipitation during magnetic storm main phase. <i>Journal of Geophysical Research</i> , 1971, 76, 4446-4453. | 3.3 | 397 |
| 8 | Consequences of a magnetospheric plasma. <i>Reviews of Geophysics</i> , 1969, 7, 379-419. | 9.0 | 392 |
| 9 | VLF electric field observations in the magnetosphere. <i>Journal of Geophysical Research</i> , 1970, 75, 6136-6152. | 3.3 | 317 |
| 10 | Electron precipitation pulsations. <i>Journal of Geophysical Research</i> , 1970, 75, 1279-1289. | 3.3 | 259 |
| 11 | Low-Frequency Whistler Mode. <i>Physics of Fluids</i> , 1966, 9, 2190. | 1.4 | 226 |
| 12 | Can the ionosphere regulate magnetospheric convection?. <i>Journal of Geophysical Research</i> , 1973, 78, 2837-2851. | 3.3 | 211 |
| 13 | Changes in magnetospheric configuration during the substorm growth phase. <i>Journal of Geophysical Research</i> , 1972, 77, 3361-3370. | 3.3 | 178 |
| 14 | 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 |
| 15 | Collisionless shock waves in high β^2 plasmas: 1. <i>Journal of Geophysical Research</i> , 1967, 72, 3303-3326. | 3.3 | 174 |
| 16 | Plasma Wave Observations at Comet Giacobini-Zinner. <i>Science</i> , 1986, 232, 377-381. | 6.0 | 154 |
| 17 | Evidence for a magnetosphere at Ganymede from plasma-wave observations by the Galileo spacecraft. <i>Nature</i> , 1996, 384, 535-537. | 13.7 | 152 |
| 18 | A parametric survey of the first critical Mach number for a fast MHD shock. <i>Journal of Plasma Physics</i> , 1984, 32, 429-441. | 0.7 | 148 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Nonlinear, dispersive, elliptically polarized Alfvén waves. <i>Physics of Fluids</i> , 1988, 31, 1949. | 1.4 | 146 |
| 20 | Galileo Plasma Wave Observations in the Io Plasma Torus and Near Io. <i>Science</i> , 1996, 274, 391-392. | 6.0 | 131 |
| 21 | Thermal anisotropies and electromagnetic instabilities in the solar wind. <i>Journal of Geophysical Research</i> , 1968, 73, 6149-6165. | 3.3 | 125 |
| 22 | Escape of heated ions upstream of quasi-parallel shocks. <i>Geophysical Research Letters</i> , 1982, 9, 531-534. | 1.5 | 120 |
| 23 | Polarization of the auroral electrojet. <i>Journal of Geophysical Research</i> , 1972, 77, 2835-2850. | 3.3 | 118 |
| 24 | Electron pitch-angle diffusion driven by oblique whistler-mode turbulence. <i>Journal of Plasma Physics</i> , 1971, 6, 589-606. | 0.7 | 115 |
| 25 | Quasi-trapped VLF propagation in the outer magnetosphere. <i>Journal of Geophysical Research</i> , 1967, 72, 857-870. | 3.3 | 113 |
| 26 | Relativistic nonlinear plasma waves in a magnetic field. <i>Journal of Plasma Physics</i> , 1976, 15, 335-355. | 0.7 | 111 |
| 27 | First measurements of plasma waves near Mars. <i>Nature</i> , 1989, 341, 607-609. | 13.7 | 109 |
| 28 | Linear theory of equatorial spread F . <i>Journal of Geophysical Research</i> , 1975, 80, 4581-4590. | 3.3 | 105 |
| 29 | Detection of Electric-Field Turbulence in the Earth's Bow Shock. <i>Physical Review Letters</i> , 1968, 21, 1761-1764. | 2.9 | 101 |
| 30 | Climate policy: Ditch the 2°C warming goal. <i>Nature</i> , 2014, 514, 30-31. | 13.7 | 99 |
| 31 | OGO 5 observations of electrostatic turbulence in bow shock magnetic structures. <i>Journal of Geophysical Research</i> , 1970, 75, 3751-3768. | 3.3 | 98 |
| 32 | Unstable growth of unducted whistlers propagating at an angle to the geomagnetic field. <i>Journal of Geophysical Research</i> , 1967, 72, 871-878. | 3.3 | 94 |
| 33 | Isotope Separation in Plasmas by Use of Ion Cyclotron Resonance. <i>Physical Review Letters</i> , 1976, 37, 1547-1550. | 2.9 | 93 |
| 34 | First Plasma Wave Observations at Neptune. <i>Science</i> , 1989, 246, 1494-1498. | 6.0 | 91 |
| 35 | Auroral micropulsation instability. <i>Journal of Geophysical Research</i> , 1970, 75, 1863-1878. | 3.3 | 89 |
| 36 | Small amplitude waves in high β^2 plasmas. <i>Journal of Plasma Physics</i> , 1969, 3, 55-74. | 0.7 | 80 |

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|----|--|-----|-----------|
| 37 | Global simulation of the time-dependent magnetosphere. <i>Geophysical Research Letters</i> , 1978, 5, 609-612. | 1.5 | 80 |
| 38 | ISEE-1 and -2 observations of magnetic field strength overshoots in quasi-perpendicular bow shocks. <i>Geophysical Research Letters</i> , 1982, 9, 1037-1040. | 1.5 | 75 |
| 39 | Plasma wave spectra near slow mode shocks in the distant magnetotail. <i>Geophysical Research Letters</i> , 1984, 11, 1050-1053. | 1.5 | 73 |
| 40 | 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 |
| 41 | Jupiter's Magnetosphere. <i>Annual Review of Astronomy and Astrophysics</i> , 1977, 15, 389-436. | 8.1 | 71 |
| 42 | Global simulations of the three-dimensional magnetosphere. <i>Geophysical Research Letters</i> , 1981, 8, 257-260. | 1.5 | 71 |
| 43 | Lightning and Plasma Wave Observations from the Galileo Flyby of Venus. <i>Science</i> , 1991, 253, 1522-1525. | 6.0 | 71 |
| 44 | Structure and evolution of small-amplitude intermediate shock waves. <i>Physics of Fluids B</i> , 1990, 2, 253-269. | 1.7 | 65 |
| 45 | Relativistic magnetohydrodynamic winds of finite temperature. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1983, 26, 147-222. | 0.4 | 64 |
| 46 | Detection of Jovian whistler mode chorus; Implications for the Io torus aurora. <i>Geophysical Research Letters</i> , 1980, 7, 45-48. | 1.5 | 63 |
| 47 | High-frequency Hall Current Instability. <i>Radio Science</i> , 1971, 6, 209-213. | 0.8 | 59 |
| 48 | Resonant particle instabilities in a uniform magnetic field. <i>Journal of Plasma Physics</i> , 1967, 1, 75-80. | 0.7 | 55 |
| 49 | Magnetospheres of the planets. <i>Space Science Reviews</i> , 1973, 14, 511-533. | 3.7 | 55 |
| 50 | MHD intermediate shock discontinuities. Part 1. Rankine-Hugoniot conditions. <i>Journal of Plasma Physics</i> , 1989, 42, 299-319. | 0.7 | 55 |
| 51 | Fast time resolved spectral analysis of VLF banded emissions. <i>Journal of Geophysical Research</i> , 1971, 76, 2366-2381. | 3.3 | 52 |
| 52 | Chaos in driven Alfvén systems. <i>Physics of Fluids B</i> , 1990, 2, 2581-2590. | 1.7 | 51 |
| 53 | Correlated whistler and electron plasma oscillation bursts detected on ISEE-3. <i>Geophysical Research Letters</i> , 1980, 7, 129-132. | 1.5 | 50 |
| 54 | Ultrarelativistic electromagnetic pulses in plasmas. <i>Physical Review A</i> , 1981, 23, 1906-1914. | 1.0 | 50 |

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|----|---|-----|-----------|
| 55 | Finite Larmor radius hydromagnetics. <i>Annals of Physics</i> , 1966, 38, 63-94. | 1.0 | 49 |
| 56 | ISEE wave measurements in the distant geomagnetic tail and boundary layer. <i>Geophysical Research Letters</i> , 1984, 11, 335-338. | 1.5 | 44 |
| 57 | Ultrarelativistic waves in overdense electron-positron plasmas. <i>Physical Review A</i> , 1982, 25, 1023-1039. | 1.0 | 43 |
| 58 | Collisionless Shock Waves. <i>Scientific American</i> , 1991, 264, 106-113. | 1.0 | 41 |
| 59 | Resonantly unstable off-angle hydromagnetic waves. <i>Journal of Plasma Physics</i> , 1967, 1, 81-104. | 0.7 | 39 |
| 60 | High time resolution plasma wave and magnetic field observations of the Jovian bow shock. <i>Geophysical Research Letters</i> , 1985, 12, 183-186. | 1.5 | 36 |
| 61 | Critical Mach numbers in classical magnetohydrodynamics. <i>Journal of Geophysical Research</i> , 1987, 92, 13427-13437. | 3.3 | 35 |
| 62 | Structure and evolution of time-dependent intermediate shocks. <i>Physical Review Letters</i> , 1992, 68, 56-59. | 2.9 | 34 |
| 63 | The role of intermediate shocks in magnetic reconnection. <i>Geophysical Research Letters</i> , 1992, 19, 229-232. | 1.5 | 34 |
| 64 | Communicating Climate Knowledge. <i>Current Anthropology</i> , 2012, 53, 226-244. | 0.8 | 34 |
| 65 | 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 |
| 66 | Cosmic-Ray Generation by Pulsars. <i>Physical Review Letters</i> , 1973, 31, 1364-1367. | 2.9 | 32 |
| 67 | Pulsar magnetospheres. <i>Space Science Reviews</i> , 1979, 24, 407. | 3.7 | 32 |
| 68 | Shock structure in classical magnetohydrodynamics. <i>Journal of Geophysical Research</i> , 1988, 93, 8545-8557. | 3.3 | 31 |
| 69 | The electromagnetic interchange mode in a partly-ionized collisional plasma. <i>Journal of Plasma Physics</i> , 1975, 14, 121-134. | 0.7 | 24 |
| 70 | Finite \hat{v}^2 drift Alfvén instability. <i>Journal of Geophysical Research</i> , 1973, 78, 7521-7530. | 3.3 | 18 |
| 71 | Making climate science more relevant. <i>Science</i> , 2016, 354, 421-422. | 6.0 | 18 |
| 72 | Planetary vital signs. <i>Nature Climate Change</i> , 2015, 5, 969-970. | 8.1 | 16 |

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|----|--|------|-----------|
| 73 | 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 |
| 74 | Possibility of Landau damping of gravitational waves. Physical Review D, 1979, 19, 1070-1083. | 1.6 | 14 |
| 75 | The collisional drift mode in a partly-ionized plasma. Journal of Plasma Physics, 1975, 14, 135-142. | 0.7 | 12 |
| 76 | Getting serious about the new realities of global climate change. Bulletin of the Atomic Scientists, 2013, 69, 49-57. | 0.2 | 12 |
| 77 | Refraction by the Electromagnetic Pump of Parametrically Generated Electrostatic Waves. Physical Review Letters, 1973, 30, 597-600. | 2.9 | 11 |
| 78 | Trail of the Crab progenitor star. Nature, 1983, 301, 586-587. | 13.7 | 11 |
| 79 | Effect of parallel refraction on magnetospheric upper hybrid waves. Geophysical Research Letters, 1984, 11, 865-868. | 1.5 | 9 |
| 80 | 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 |
| 81 | High Ion ² Pitch-Angle Instability. Physical Review Letters, 1966, 17, 245-246. | 2.9 | 7 |
| 82 | The gathering anthropocene crisis. Infrastructure Asset Management, 2021, 8, 83-95. | 1.2 | 7 |
| 83 | An Earth Systems Science Agency. Science, 2008, 321, 44-45. | 6.0 | 5 |
| 84 | Addressing our planetary crisis. Sustainability Science, 2022, 17, 5-7. | 2.5 | 5 |
| 85 | Fusion policy advisory committee: final report. Journal of Fusion Energy, 1991, 10, 127-156. | 0.5 | 4 |
| 86 | Plasma waves at collisionless shocks in space: The observations of Frederick L. Scarf. Advances in Space Research, 1991, 11, 3-14. | 1.2 | 3 |
| 87 | Knowledge action networks and regional climate change adaptation. Technovation, 2013, 33, 107. | 4.2 | 3 |
| 88 | The magnetohydrodynamic Rankine-Hugoniot relations. AIP Conference Proceedings, 1994, , . | 0.3 | 2 |
| 89 | Beyond 2020: converging crises demand integrated responses. Sustainability Science, 2021, 16, 691-693. | 2.5 | 2 |
| 90 | Coping with Uncertainty in Space Science Planning. Science, 2014, 343, 140-141. | 6.0 | 1 |

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|----|--|-----|-----------|
| 91 | Where We Are Now, Where We Are Going: Scripps Science in Two Centuries. <i>Oceanography</i> , 2003, 16, 8-10. | 0.5 | 1 |
| 92 | Angelopoulos, Schrag, and Tabazadeh receive 2001 James B. Macelwane Medal. <i>Eos</i> , 2002, 83, 138. | 0.1 | 0 |
| 93 | Louis J. Lanzerotti receives 2011 William Bowie Medal: Citation. <i>Eos</i> , 2012, 93, 6-6. | 0.1 | 0 |
| 94 | Afterword: Speaking Scientific Truth to Power. <i>The Cambridge Journal of Anthropology</i> , 2013, 31, . | 1.5 | 0 |
| 95 | Rosenbluth and Sagdeev in Trieste: The Birth of Modern Space Plasma Physics. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027859. | 0.8 | 0 |