

Charles F F Karney

List of Publications by Year in descending order

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48
papers

3,256
citations

236925

25
h-index

254184

43
g-index

56
all docs

56
docs citations

56
times ranked

1868
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-time correlations in the stochastic regime. <i>Physica D: Nonlinear Phenomena</i> , 1983, 8, 360-380.	2.8	330
2	Stochastic ion heating by a lower hybrid wave. <i>Physics of Fluids</i> , 1978, 21, 1584.	1.4	302
3	Algorithms for geodesics. <i>Journal of Geodesy</i> , 2013, 87, 43-55.	3.6	237
4	Numerical studies of current generation by radio-frequency traveling waves. <i>Physics of Fluids</i> , 1979, 22, 1817.	1.4	219
5	Stochastic ion heating by a lower hybrid wave: II. <i>Physics of Fluids</i> , 1979, 22, 2188.	1.4	202
6	Fokker-Planck and quasilinear codes. <i>Computer Physics Reports</i> , 1986, 4, 183-244.	2.2	177
7	Current generation with low-frequency waves. <i>Physics of Fluids</i> , 1981, 24, 27.	1.4	144
8	Efficiency of current drive by fast waves. <i>Physics of Fluids</i> , 1985, 28, 116-126.	1.4	143
9	Stochastic Ion Heating by a Perpendicularly Propagating Electrostatic Wave. <i>Physical Review Letters</i> , 1977, 39, 550-554.	7.8	140
10	Quaternions in molecular modeling. <i>Journal of Molecular Graphics and Modelling</i> , 2007, 25, 595-604.	2.4	129
11	Neutral Gas Transport Modeling with DEGAS 2. <i>Contributions To Plasma Physics</i> , 1994, 34, 392-397.	1.1	113
12	Approximate formula for radiofrequency current drive efficiency with magnetic trapping. <i>Nuclear Fusion</i> , 1991, 31, 1933-1938.	3.5	102
13	Current in wave-driven plasmas. <i>Physics of Fluids</i> , 1986, 29, 180.	1.4	83
14	Conductivity of a relativistic plasma. <i>Physics of Fluids B</i> , 1989, 1, 1355-1368.	1.7	75
15	Alfvén Resonance Effects on Magnetosonic Modes in Large Tokamaks. <i>Physical Review Letters</i> , 1979, 42, 1621-1624.	7.8	72
16	Angular distribution of the bremsstrahlung emission during lower hybrid current drive on PLT. <i>Nuclear Fusion</i> , 1985, 25, 1515-1528.	3.5	72
17	Effect of noise on the standard mapping. <i>Physica D: Nonlinear Phenomena</i> , 1982, 4, 425-438.	2.8	69
18	Conversion of wave energy to magnetic field energy in a plasma torus. <i>Physical Review Letters</i> , 1985, 54, 897-900.	7.8	68

#	ARTICLE	IF	CITATIONS
19	Currents driven by electron cyclotron waves. Nuclear Fusion, 1981, 21, 1549-1557.	3.5	67
20	Transverse Mercator with an accuracy of a few nanometers. Journal of Geodesy, 2011, 85, 475-485.	3.6	65
21	Modelling of the electron distribution based on bremsstrahlung emission during lower-hybrid current drive on PLT. Nuclear Fusion, 1985, 25, 1529-1541.	3.5	62
22	Comparison of the theory and the practice of lower-hybrid current drive. Physical Review A, 1985, 32, 2554-2556.	2.5	59
23	Nonlinear evolution of lower hybrid waves. Physics of Fluids, 1979, 22, 940.	1.4	53
24	Differential form of the collision integral for a relativistic plasma. Physical Review Letters, 1987, 59, 1817-1820.	7.8	43
25	Two-dimensional self-modulation of lower hybrid waves in inhomogeneous plasmas. Physics of Fluids, 1979, 22, 1545.	1.4	27
26	Study of particle pumping characteristics for different pumping geometries in JT-60U and DIII-D divertors. Nuclear Fusion, 2001, 41, 1777-1787.	3.5	24
27	Three-dimensional effects in the non-linear propagation of lower-hybrid waves. Nuclear Fusion, 1978, 18, 171-179.	3.5	21
28	F.W. Bessel (1825): The calculation of longitude and latitude from geodesic measurements. Astronomische Nachrichten, 2010, 331, 852-861.	1.2	19
29	Improved elastic collision modeling in DEGAS 2 for low-temperature plasmas. Physics of Plasmas, 2000, 7, 5064-5069.	1.9	18
30	Solution of the three-wave resonant equations with one wave heavily damped. Physics of Fluids, 1977, 20, 1728.	1.4	15
31	Asymptotic analysis of radio frequency heated collisional plasma. Physics of Fluids, 1985, 28, 3107.	1.4	14
32	Modeling of neutral plasma in a divertor in the fluid-kinetic transition. Contributions To Plasma Physics, 1998, 38, 319-324.	1.1	14
33	Method for computing protein binding affinity. Journal of Computational Chemistry, 2005, 26, 243-251.	3.3	14
34	Theory of current drive by parallel acceleration of electrons in a weakly relativistic plasma. Physics of Plasmas, 1995, 2, 450-458.	1.9	11
35	Coupled Monte Carlo neutral " fluid plasma simulation of Alcator C-Mod divertor plasma near detachment. Journal of Nuclear Materials, 1999, 266-269, 947-952.	2.7	9
36	Spectroscopic measurements of hydrogen ion temperature during divertor recombination. Review of Scientific Instruments, 1999, 70, 347-350.	1.3	8

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37	Symbolic computation of nonlinear wave interactions on MACSYMA. Computer Physics Communications, 1976, 12, 81-98.	7.5	7
38	Scrape-off layer modeling using coupled plasma and neutral transport codes. Journal of Nuclear Materials, 1992, 196-198, 894-898.	2.7	6
39	Temporal evolution of lower-hybrid waves in the presence of ponderomotive density fluctuations. Physics of Fluids, 1981, 24, 127.	1.4	5
40	Stochastic motion of particles in tandem mirror devices. Physica D: Nonlinear Phenomena, 1983, 6, 233-240.	2.8	4
41	Effect of resonance broadening on the evolution of the edge of a turbulent spectrum. Physics of Fluids, 1981, 24, 504.	1.4	3
42	Comment on "Resonant parametric excitations driven by lower-hybrid fields". Physics of Fluids, 1981, 24, 1590.	1.4	2
43	Compact ignition tokamak edge and divertor modeling. , 1990, , .		1
44	Comment on "Chaos, Periodic Chaos, and the Random-Walk Problem". Physical Review Letters, 1983, 50, 703-703.	7.8	0
45	Modern computational techniques in plasma physics. Physics of Plasmas, 1998, 5, 1632-1635.	1.9	0
46	Effect of reflection on H \pm emissions in Alcator C-MOD. Review of Scientific Instruments, 1999, 70, 344-346.	1.3	0
47	TEMPORAL EVOLUTION OF NONLINEAR LOWER HYBRID WAVES. , 1981, , 455-461.		0
48	Coupling of Parallelized DEGAS 2 and UEDGE Codes. Contributions To Plasma Physics, 2000, 40, 221-226.	1.1	0