

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	Algorithms for geodesics. <i>Journal of Geodesy</i> , 2013, 87, 43-55.	3.6	237
2	Transverse Mercator with an accuracy of a few nanometers. <i>Journal of Geodesy</i> , 2011, 85, 475-485.	3.6	65
3	F.W. Bessel (1825): The calculation of longitude and latitude from geodesic measurements. <i>Astronomische Nachrichten</i> , 2010, 331, 852-861.	1.2	19
4	Quaternions in molecular modeling. <i>Journal of Molecular Graphics and Modelling</i> , 2007, 25, 595-604.	2.4	129
5	Method for computing protein binding affinity. <i>Journal of Computational Chemistry</i> , 2005, 26, 243-251.	3.3	14
6	Study of particle pumping characteristics for different pumping geometries in JT-60U and DIII-D divertors. <i>Nuclear Fusion</i> , 2001, 41, 1777-1787.	3.5	24
7	Improved elastic collision modeling in DEGAS 2 for low-temperature plasmas. <i>Physics of Plasmas</i> , 2000, 7, 5064-5069.	1.9	18
8	Coupling of Parallelized DEGAS 2 and UEDGE Codes. <i>Contributions To Plasma Physics</i> , 2000, 40, 221-226.	1.1	0
9	Effect of reflection on H \pm emissions in Alcator C-MOD. <i>Review of Scientific Instruments</i> , 1999, 70, 344-346.	1.3	0
10	Coupled Monte Carlo neutral " fluid plasma simulation of Alcator C-Mod divertor plasma near detachment. <i>Journal of Nuclear Materials</i> , 1999, 266-269, 947-952.	2.7	9
11	Spectroscopic measurements of hydrogen ion temperature during divertor recombination. <i>Review of Scientific Instruments</i> , 1999, 70, 347-350.	1.3	8
12	Modeling of neutral plasma in a divertor in the fluid-kinetic transition. <i>Contributions To Plasma Physics</i> , 1998, 38, 319-324.	1.1	14
13	Modern computational techniques in plasma physics. <i>Physics of Plasmas</i> , 1998, 5, 1632-1635.	1.9	0
14	Theory of current drive by parallel acceleration of electrons in a weakly relativistic plasma. <i>Physics of Plasmas</i> , 1995, 2, 450-458.	1.9	11
15	Neutral Gas Transport Modeling with DEGAS 2. <i>Contributions To Plasma Physics</i> , 1994, 34, 392-397.	1.1	113
16	Scrape-off layer modeling using coupled plasma and neutral transport codes. <i>Journal of Nuclear Materials</i> , 1992, 196-198, 894-898.	2.7	6
17	Approximate formula for radiofrequency current drive efficiency with magnetic trapping. <i>Nuclear Fusion</i> , 1991, 31, 1933-1938.	3.5	102
18	Compact ignition tokamak edge and divertor modeling. , 1990, , .		1

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19	Conductivity of a relativistic plasma. <i>Physics of Fluids B</i> , 1989, 1, 1355-1368.	1.7	75
20	Differential form of the collision integral for a relativistic plasma. <i>Physical Review Letters</i> , 1987, 59, 1817-1820.	7.8	43
21	Fokker-Planck and quasilinear codes. <i>Computer Physics Reports</i> , 1986, 4, 183-244.	2.2	177
22	Current in wave-driven plasmas. <i>Physics of Fluids</i> , 1986, 29, 180.	1.4	83
23	Angular distribution of the bremsstrahlung emission during lower hybrid current drive on PLT. <i>Nuclear Fusion</i> , 1985, 25, 1515-1528.	3.5	72
24	Conversion of wave energy to magnetic field energy in a plasma torus. <i>Physical Review Letters</i> , 1985, 54, 897-900.	7.8	68
25	Comparison of the theory and the practice of lower-hybrid current drive. <i>Physical Review A</i> , 1985, 32, 2554-2556.	2.5	59
26	Asymptotic analysis of radio frequency heated collisional plasma. <i>Physics of Fluids</i> , 1985, 28, 3107.	1.4	14
27	Efficiency of current drive by fast waves. <i>Physics of Fluids</i> , 1985, 28, 116-126.	1.4	143
28	Modelling of the electron distribution based on bremsstrahlung emission during lower-hybrid current drive on PLT. <i>Nuclear Fusion</i> , 1985, 25, 1529-1541.	3.5	62
29	Stochastic motion of particles in tandem mirror devices. <i>Physica D: Nonlinear Phenomena</i> , 1983, 6, 233-240.	2.8	4
30	Long-time correlations in the stochastic regime. <i>Physica D: Nonlinear Phenomena</i> , 1983, 8, 360-380.	2.8	330
31	Comment on "Chaos, Periodic Chaos, and the Random-Walk Problem". <i>Physical Review Letters</i> , 1983, 50, 703-703.	7.8	0
32	Effect of noise on the standard mapping. <i>Physica D: Nonlinear Phenomena</i> , 1982, 4, 425-438.	2.8	69
33	Current generation with low-frequency waves. <i>Physics of Fluids</i> , 1981, 24, 27.	1.4	144
34	Comment on "Resonant parametric excitations driven by lower-hybrid fields". <i>Physics of Fluids</i> , 1981, 24, 1590.	1.4	2
35	Effect of resonance broadening on the evolution of the edge of a turbulent spectrum. <i>Physics of Fluids</i> , 1981, 24, 504.	1.4	3
36	Temporal evolution of lower-hybrid waves in the presence of ponderomotive density fluctuations. <i>Physics of Fluids</i> , 1981, 24, 127.	1.4	5

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37	Currents driven by electron cyclotron waves. Nuclear Fusion, 1981, 21, 1549-1557.	3.5	67
38	TEMPORAL EVOLUTION OF NONLINEAR LOWER HYBRID WAVES. , 1981, , 455-461.		0
39	Numerical studies of current generation by radio-frequency traveling waves. Physics of Fluids, 1979, 22, 1817.	1.4	219
40	Stochastic ion heating by a lower hybrid wave: II. Physics of Fluids, 1979, 22, 2188.	1.4	202
41	Alfvén Resonance Effects on Magnetosonic Modes in Large Tokamaks. Physical Review Letters, 1979, 42, 1621-1624.	7.8	72
42	Nonlinear evolution of lower hybrid waves. Physics of Fluids, 1979, 22, 940.	1.4	53
43	Two-dimensional self-modulation of lower hybrid waves in inhomogeneous plasmas. Physics of Fluids, 1979, 22, 1545.	1.4	27
44	Three-dimensional effects in the non-linear propagation of lower-hybrid waves. Nuclear Fusion, 1978, 18, 171-179.	3.5	21
45	Stochastic ion heating by a lower hybrid wave. Physics of Fluids, 1978, 21, 1584.	1.4	302
46	Stochastic Ion Heating by a Perpendicularly Propagating Electrostatic Wave. Physical Review Letters, 1977, 39, 550-554.	7.8	140
47	Solution of the three-wave resonant equations with one wave heavily damped. Physics of Fluids, 1977, 20, 1728.	1.4	15
48	Symbolic computation of nonlinear wave interactions on MACSYMA. Computer Physics Communications, 1976, 12, 81-98.	7.5	7