

M E Koepke

List of Publications by Year in descending order

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61
papers

806
citations

430754

18
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526166

27
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all docs

61
docs citations

61
times ranked

613
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron power absorption dynamics in capacitive radio frequency discharges driven by tailored voltage waveforms in CF ₄ . Plasma Sources Science and Technology, 2016, 25, 045015.	1.3	63
2	van der Pol behavior of relaxation oscillations in a periodically driven thermionic discharge. Physical Review E, 1995, 52, 4316-4327.	0.8	52
3	Observation of ion-cyclotron turbulence at small values of magnetic-field-aligned current. Geophysical Research Letters, 1994, 21, 1595-1598.	1.5	49
4	Interrelated laboratory and space plasma experiments. Reviews of Geophysics, 2008, 46, .	9.0	46
5	Contributions of Q-machine experiments to understanding auroral particle acceleration processes. Physics of Plasmas, 2002, 9, 2420-2427.	0.7	42
6	Experimental verification of periodic pulling in a nonlinear electronic oscillator. Physical Review A, 1991, 44, 6877-6887.	1.0	35
7	Self-cleaning Langmuir probe. Review of Scientific Instruments, 1993, 64, 1253-1256.	0.6	35
8	Perpendicular ion heating by velocity-shear-driven waves. Geophysical Research Letters, 1997, 24, 1187-1190.	1.5	31
9	Excitation and propagation of electrostatic ion-cyclotron waves in plasma with structured transverse flow. Physics of Plasmas, 1998, 5, 1671-1680.	0.7	27
10	A segmented disk electrode to produce and control parallel and transverse particle drifts in a cylindrical plasma. Review of Scientific Instruments, 1994, 65, 2991-2995.	0.6	26
11	Basic factors for acquiring, correcting, and interpreting probe current-voltage characteristic in moderate-collisional plasma for determining electron energy distribution. Physics of Plasmas, 2020, 27, .	0.7	24
12	Perpendicular ion energy analyzer for hot-ion plasmas. Review of Scientific Instruments, 1985, 56, 1463-1464.	0.6	23
13	Periodic nonlinear wave-wave interaction in a plasma discharge with no external oscillatory driving force. Physics of Plasmas, 1996, 3, 4421-4426.	0.7	23
14	Measurements of low-energy electron reflection at a plasma boundary. Physics of Plasmas, 2015, 22, .	0.7	22
15	Asymmetric spectral broadening of modulated electrostatic ion-cyclotron waves. Geophysical Research Letters, 1994, 21, 1011-1014.	1.5	21
16	Spatiotemporal signatures of periodic pulling during ionization-wave-mode transitions. Physics of Plasmas, 2001, 8, 1432.	0.7	21
17	Lower-hybrid cavity density depletions as a result of transverse ion acceleration localized on the gyroradius scale. Journal of Geophysical Research, 2004, 109, .	3.3	19
18	Control of charged particle dynamics in capacitively coupled plasmas driven by tailored voltage waveforms in mixtures of Ar and CF ₄ . Plasma Sources Science and Technology, 2019, 28, 095021.	1.3	18

#	ARTICLE	IF	CITATIONS
19	Inhomogeneous magnetic-field-aligned ion flow measured in a Q machine. <i>Physics of Plasmas</i> , 2002, 9, 3225-3235.	0.7	16
20	Velocity-shear-driven drift waves with simultaneous azimuthal modes in a barium-ion Q-machine plasma. <i>Physics of Plasmas</i> , 2005, 12, 102106.	0.7	16
21	Velocity-shear origin of low-frequency electrostatic ion-gyroresonant waves. <i>Geophysical Research Letters</i> , 1998, 25, 3099-3102.	1.5	14
22	Evidence for thermal anisotropy effects on shear modified ion acoustic instabilities. <i>Physics of Plasmas</i> , 2002, 9, 4399-4401.	0.7	14
23	Baffled probe for real-time measurement of space potential in magnetized plasma. <i>Review of Scientific Instruments</i> , 2003, 74, 4558-4560.	0.6	14
24	Short DC Discharge with Wall Probe as a Gas Analytical Detector. <i>Contributions To Plasma Physics</i> , 2010, 50, 808-813.	0.5	13
25	Control of plasma properties in a short direct-current glow discharge with active boundaries. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	13
26	Spatiotemporal laser perturbation of competing ionization waves in a neon glow discharge. <i>Physical Review E</i> , 2000, 62, 2773-2781.	0.8	11
27	Numerical experiments on plasmoids entering a transverse magnetic field. <i>Physics of Plasmas</i> , 2009, 16, 112901.	0.7	10
28	Magnetically insulated baffled probe for real-time monitoring of equilibrium and fluctuating values of space potentials, electron and ion temperatures, and densities. <i>Review of Scientific Instruments</i> , 2010, 81, 10E129.	0.6	10
29	Suprathermal electron energy spectrum and nonlocally affected plasma-wall interaction in helium/air micro-plasma at atmospheric pressure. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	10
30	An effect of neutral collisions on the excitation threshold of electrostatic ion-cyclotron waves. <i>Geophysical Research Letters</i> , 1998, 25, 3095-3098.	1.5	9
31	On the role of ion temperature anisotropy in the growth and propagation of shear-modified ion-acoustic waves. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	7
32	Utility of a Baffled Probe for Measurements of Oscillations in Magnetized Plasma. <i>Contributions To Plasma Physics</i> , 2004, 44, 689-694.	0.5	7
33	The dispersive Alfvén wave in the time-stationary limit with a focus on collisional and warm-plasma effects. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	7
34	Resonant-to-nonresonant transition in electrostatic ion-cyclotron wave phase velocity. <i>Nonlinear Processes in Geophysics</i> , 2003, 10, 131-138.	0.6	6
35	Bispectral analysis of broadband turbulence and geodesic acoustic modes in the T-10 tokamak. <i>Journal of Plasma Physics</i> , 2021, 87, .	0.7	6
36	Optimizing ion production from a gas-injected washer gun. <i>Journal of Applied Physics</i> , 1987, 61, 1747-1752.	1.1	5

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37	Higher order nonlocal formalism for linear analysis of a magnetized multispecies plasma with inhomogeneous flows. <i>Physics of Plasmas</i> , 1998, 5, 10-21.	0.7	5
38	Radiation from an electron beam in a magnetized plasma: Whistler mode wave packets. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	5
39	Probe measurements of electron energy spectrum and plasma-wall interaction in Helium/air micro-plasma at atmospheric pressure. <i>Journal of Physics: Conference Series</i> , 2018, 982, 012013.	0.3	5
40	Excitation mechanisms and spectral properties of the ion-cyclotron parallel-velocity shear driven instability. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	4
41	Evidence of effective local control of a plasma's nonlocal electron distribution function. <i>Plasma Sources Science and Technology</i> , 2020, 29, 077001.	1.3	4
42	Frequency range and spectral width of waves associated with transverse-velocity shear. <i>Geophysical Monograph Series</i> , 1995, , 81-85.	0.1	3
43	Baffled-Probe Cluster for Simultaneous, Single-Point Monitoring of Magnetized Plasma Fluctuations. <i>Contributions To Plasma Physics</i> , 2006, 46, 385-391.	0.5	3
44	Radiation from an electron beam in magnetized plasma: excitation of a whistler mode wave packet by interacting, higher-frequency, electrostatic-wave eigenmodes. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 124006.	0.9	2
45	Factors influencing the commercialization of inertial fusion energy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200020.	1.6	2
46	Theoretical modeling of drift cyclotron loss-cone instability mode structures. <i>Physics of Fluids B</i> , 1989, 1, 570-580.	1.7	1
47	Utility of a baffled Langmuir probe for applications to edge plasma and turbulence characterization in stellarator plasma. <i>Review of Scientific Instruments</i> , 2004, 75, 3622-3624.	0.6	1
48	Effects of Transverse, Localized, Dc Electric Fields on Current-Driven Ion-Cyclotron Waves. <i>Geophysical Monograph Series</i> , 2013, , 287-291.	0.1	1
49	The temporal evolution of the kinetic drift-Alfven instability of plasma shear flow. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	1
50	Maser radiation from collisionless shocks: application to astrophysical jets. <i>High Power Laser Science and Engineering</i> , 2019, 7, .	2.0	1
51	Prospects for high gain inertial fusion energy: an introduction to the first special edition. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20200006.	1.6	1
52	Ion-temperature determination with a baffled Langmuir probe. <i>Review of Scientific Instruments</i> , 2021, 92, 033541.	0.6	1
53	Magnetically insulated baffled probe (MIBP) for low-temperature and fusion-boundary plasma studies. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 093001.	0.9	1
54	A Preshaping Transition Coil for a Small Minimum-B Magnetic Mirror. <i>IEEE Transactions on Plasma Science</i> , 1983, 11, 299-300.	0.6	0

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55	Velocity-shear origin of broadband electrostatic noise. , 1997, , .		0
56	Dynamics of Finite Dust Clouds in a Magnetized Anodic Plasma. AIP Conference Proceedings, 2008, , .	0.3	0
57	SIMPLE MAGNETIZED TORUS AS A MODEL SYSTEM FOR BASIC INVESTIGATION OF EDGE-PLASMA TRANSPORT. , 2009, , .		0
58	Laboratory experiment to investigate the impact of background plasma on cyclotron emission. , 2012, , .		0
59	Scaled laboratory experiments to investigate the moderation of auroral cyclotron emissions by background plasma. , 2012, , .		0
60	Operation And Measurement Of Penning Discharges For Beam Plasma Experiments. , 2017, , .		0
61	Design and Characterisation of a Helicon Apparatus for Investigations of Parametric Instabilities in Magnetised Plasma. , 2022, , .		0