

# M E Koepke

## List of Publications by Year in descending order

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61  
papers

806  
citations

430754

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526166

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61  
docs citations

61  
times ranked

613  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Characterisation of a Helicon Apparatus for Investigations of Parametric Instabilities in Magnetised Plasma. , 2022, , .		0
2	Ion-temperature determination with a baffled Langmuir probe. Review of Scientific Instruments, 2021, 92, 033541.	0.6	1
3	Bispectral analysis of broadband turbulence and geodesic acoustic modes in the T-10 tokamak. Journal of Plasma Physics, 2021, 87, .	0.7	6
4	Magnetically insulated baffled probe (MIBP) for low-temperature and fusion-boundary plasma studies. Plasma Physics and Controlled Fusion, 2021, 63, 093001.	0.9	1
5	Factors influencing the commercialization of inertial fusion energy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200020.	1.6	2
6	Prospects for high gain inertial fusion energy: an introduction to the first special edition. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20200006.	1.6	1
7	Evidence of effective local control of a plasma's nonlocal electron distribution function. Plasma Sources Science and Technology, 2020, 29, 077001.	1.3	4
8	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
9	Control of charged particle dynamics in capacitively coupled plasmas driven by tailored voltage waveforms in mixtures of Ar and CF <sub>4</sub> . Plasma Sources Science and Technology, 2019, 28, 095021.	1.3	18
10	Maser radiation from collisionless shocks: application to astrophysical jets. High Power Laser Science and Engineering, 2019, 7, .	2.0	1
11	Probe measurements of electron energy spectrum and plasma-wall interaction in Helium/air micro-plasma at atmospheric pressure. Journal of Physics: Conference Series, 2018, 982, 012013.	0.3	5
12	Radiation from an electron beam in magnetized plasma: excitation of a whistler mode wave packet by interacting, higher-frequency, electrostatic-wave eigenmodes. Plasma Physics and Controlled Fusion, 2017, 59, 124006.	0.9	2
13	Operation And Measurement Of Penning Discharges For Beam Plasma Experiments. , 2017, , .		0
14	Control of plasma properties in a short direct-current glow discharge with active boundaries. Physics of Plasmas, 2016, 23, .	0.7	13
15	Suprathermal electron energy spectrum and nonlocally affected plasma-wall interaction in helium/air micro-plasma at atmospheric pressure. Physics of Plasmas, 2016, 23, .	0.7	10
16	Electron power absorption dynamics in capacitive radio frequency discharges driven by tailored voltage waveforms in CF <sub>4</sub> . Plasma Sources Science and Technology, 2016, 25, 045015.	1.3	63
17	Measurements of low-energy electron reflection at a plasma boundary. Physics of Plasmas, 2015, 22, .	0.7	22
18	The temporal evolution of the kinetic drift-Alfven instability of plasma shear flow. Physics of Plasmas, 2014, 21, .	0.7	1

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19	Effects of Transverse, Localized, Dc Electric Fields on Current-Driven Ion-Cyclotron Waves. Geophysical Monograph Series, 2013, , 287-291.	0.1	1
20	Laboratory experiment to investigate the impact of background plasma on cyclotron emission. , 2012, , .		0
21	Scaled laboratory experiments to investigate the moderation of auroral cyclotron emissions by background plasma. , 2012, , .		0
22	Excitation mechanisms and spectral properties of the ion-cyclotron parallel-velocity shear driven instability. Journal of Geophysical Research, 2012, 117, .	3.3	4
23	Short DC Discharge with Wall Probe as a Gas Analytical Detector. Contributions To Plasma Physics, 2010, 50, 808-813.	0.5	13
24	Magnetically insulated baffled probe for real-time monitoring of equilibrium and fluctuating values of space potentials, electron and ion temperatures, and densities. Review of Scientific Instruments, 2010, 81, 10E129.	0.6	10
25	Numerical experiments on plasmoids entering a transverse magnetic field. Physics of Plasmas, 2009, 16, 112901.	0.7	10
26	SIMPLE MAGNETIZED TORUS AS A MODEL SYSTEM FOR BASIC INVESTIGATION OF EDGE-PLASMA TRANSPORT. , 2009, , .		0
27	Interrelated laboratory and space plasma experiments. Reviews of Geophysics, 2008, 46, .	9.0	46
28	The dispersive Alfvén wave in the time-stationary limit with a focus on collisional and warm-plasma effects. Physics of Plasmas, 2008, 15, .	0.7	7
29	Dynamics of Finite Dust Clouds in a Magnetized Anodic Plasma. AIP Conference Proceedings, 2008, , .	0.3	0
30	Radiation from an electron beam in a magnetized plasma: Whistler mode wave packets. Journal of Geophysical Research, 2006, 111, .	3.3	5
31	Baffled-Probe Cluster for Simultaneous, Single-Point Monitoring of Magnetized Plasma Fluctuations. Contributions To Plasma Physics, 2006, 46, 385-391.	0.5	3
32	Velocity-shear-driven drift waves with simultaneous azimuthal modes in a barium-ion Q-machine plasma. Physics of Plasmas, 2005, 12, 102106.	0.7	16
33	Utility of a baffled Langmuir probe for applications to edge plasma and turbulence characterization in stellarator plasma. Review of Scientific Instruments, 2004, 75, 3622-3624.	0.6	1
34	Utility of a Baffled Probe for Measurements of Oscillations in Magnetized Plasma. Contributions To Plasma Physics, 2004, 44, 689-694.	0.5	7
35	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
36	On the role of ion temperature anisotropy in the growth and propagation of shear-modified ion-acoustic waves. Journal of Geophysical Research, 2003, 108, .	3.3	7

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37	Baffled probe for real-time measurement of space potential in magnetized plasma. Review of Scientific Instruments, 2003, 74, 4558-4560.	0.6	14
38	Resonant-to-nonresonant transition in electrostatic ion-cyclotron wave phase velocity. Nonlinear Processes in Geophysics, 2003, 10, 131-138.	0.6	6
39	Inhomogeneous magnetic-field-aligned ion flow measured in a Q machine. Physics of Plasmas, 2002, 9, 3225-3235.	0.7	16
40	Contributions of Q-machine experiments to understanding auroral particle acceleration processes. Physics of Plasmas, 2002, 9, 2420-2427.	0.7	42
41	Evidence for thermal anisotropy effects on shear modified ion acoustic instabilities. Physics of Plasmas, 2002, 9, 4399-4401.	0.7	14
42	Spatiotemporal signatures of periodic pulling during ionization-wave-mode transitions. Physics of Plasmas, 2001, 8, 1432.	0.7	21
43	Spatiotemporal laser perturbation of competing ionization waves in a neon glow discharge. Physical Review E, 2000, 62, 2773-2781.	0.8	11
44	Velocity-shear origin of low-frequency electrostatic ion-gyroresonant waves. Geophysical Research Letters, 1998, 25, 3099-3102.	1.5	14
45	An effect of neutral collisions on the excitation threshold of electrostatic ion-cyclotron waves. Geophysical Research Letters, 1998, 25, 3095-3098.	1.5	9
46	Higher order nonlocal formalism for linear analysis of a magnetized multispecies plasma with inhomogeneous flows. Physics of Plasmas, 1998, 5, 10-21.	0.7	5
47	Excitation and propagation of electrostatic ion-cyclotron waves in plasma with structured transverse flow. Physics of Plasmas, 1998, 5, 1671-1680.	0.7	27
48	Velocity-shear origin of broadband electrostatic noise. , 1997, , .		0
49	Perpendicular ion heating by velocity-shear-driven waves. Geophysical Research Letters, 1997, 24, 1187-1190.	1.5	31
50	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
51	Frequency range and spectral width of waves associated with transverse-velocity shear. Geophysical Monograph Series, 1995, , 81-85.	0.1	3
52	van der Pol behavior of relaxation oscillations in a periodically driven thermionic discharge. Physical Review E, 1995, 52, 4316-4327.	0.8	52
53	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
54	Asymmetric spectral broadening of modulated electrostatic ion-cyclotron waves. Geophysical Research Letters, 1994, 21, 1011-1014.	1.5	21

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55	Observation of ion-cyclotron turbulence at small values of magnetic-field-aligned current. <i>Geophysical Research Letters</i> , 1994, 21, 1595-1598.	1.5	49
56	Self-cleaning Langmuir probe. <i>Review of Scientific Instruments</i> , 1993, 64, 1253-1256.	0.6	35
57	Experimental verification of periodic pulling in a nonlinear electronic oscillator. <i>Physical Review A</i> , 1991, 44, 6877-6887.	1.0	35
58	Theoretical modeling of drift cyclotron loss-cone instability mode structures. <i>Physics of Fluids B</i> , 1989, 1, 570-580.	1.7	1
59	Optimizing hot-ion production from a gas-injected washer gun. <i>Journal of Applied Physics</i> , 1987, 61, 1747-1752.	1.1	5
60	Perpendicular ion energy analyzer for hot-ion plasmas. <i>Review of Scientific Instruments</i> , 1985, 56, 1463-1464.	0.6	23
61	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