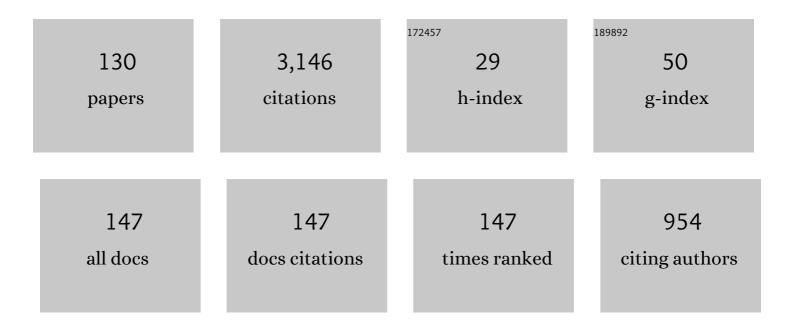
Reiner L Stenzel

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Sheaths and Double Layers with Instabilities. Journal of Technological and Space Plasmas, 2021, 2, 70-92.	0.2	4
2	Probes to measure kinetic and magnetic phenomena in plasmas. Review of Scientific Instruments, 2021, 92, 111101.	1.3	2
3	Whistler modes excited by magnetic antennas: A review. Physics of Plasmas, 2019, 26, .	1.9	13
4	Helicons in uniform fields. II. Poynting vector and angular momenta. Physics of Plasmas, 2018, 25, .	1.9	9
5	Helicons in uniform fields. I. Wave diagnostics with hodograms. Physics of Plasmas, 2018, 25, .	1.9	6
6	Whistler modes in highly nonuniform magnetic fields. II. Propagation in three dimensions. Physics of Plasmas, 2018, 25, 082109.	1.9	4
7	Whistler modes in highly nonuniform magnetic fields. I. Propagation in two-dimensions. Physics of Plasmas, 2018, 25, 082108.	1.9	4
8	Whistler modes in highly nonuniform magnetic fields. III. Propagation near mirror and cusp fields. Physics of Plasmas, 2018, 25, 082110.	1.9	4
9	New properties of whistler modes. Geophysical Research Letters, 2017, 44, 2113-2119.	4.0	4
10	Comparison of electric dipole and magnetic loop antennas for exciting whistler modes. Physics of Plasmas, 2016, 23, .	1.9	12
11	Trivelpiece-Gould modes in a uniform unbounded plasma. Physics of Plasmas, 2016, 23, .	1.9	12
12	Whistler waves with angular momentum in space and laboratory plasmas and their counterparts in free space. Advances in Physics: X, 2016, 1, 687-710.	4.1	25
13	Helicon waves in uniform plasmas. IV. Bessel beams, Gendrin beams, and helicons. Physics of Plasmas, 2016, 23, .	1.9	19
14	Magnetic antenna excitation of whistler modes. IV. Receiving antennas and reciprocity. Physics of Plasmas, 2015, 22, .	1.9	7
15	Helicon modes in uniform plasmas. I. Low <i>m</i> modes. Physics of Plasmas, 2015, 22, .	1.9	24
16	Helicon waves in uniform plasmas. II. High <i>m</i> numbers. Physics of Plasmas, 2015, 22, .	1.9	23
17	Helicons in Unbounded Plasmas. Physical Review Letters, 2015, 114, 205005.	7.8	34
18	Helicon modes in uniform plasmas. III. Angular momentum. Physics of Plasmas, 2015, 22, .	1.9	15

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19	Magnetic antenna excitation of whistler modes. I. Basic properties. Physics of Plasmas, 2014, 21, .	1.9	17
20	Magnetic antenna excitation of whistler modes. II. Antenna arrays. Physics of Plasmas, 2014, 21, .	1.9	15
21	Magnetic dipole discharges. I. Basic properties. Physics of Plasmas, 2013, 20, .	1.9	7
22	Magnetic dipole discharges. II. Cathode and anode spot discharges and probe diagnostics. Physics of Plasmas, 2013, 20, .	1.9	5
23	Oscillating plasma bubbles. IV. Grids, geometry, and gradients. Physics of Plasmas, 2012, 19, .	1.9	10
24	Oscillating plasma bubbles. II. Pulsed experiments. Physics of Plasmas, 2012, 19, .	1.9	9
25	Oscillating plasma bubbles. III. Internal electron sources and sinks. Physics of Plasmas, 2012, 19, .	1.9	9
26	Oscillating plasma bubbles. I. Basic properties and instabilities. Physics of Plasmas, 2012, 19, .	1.9	22
27	Pulsed, unstable and magnetized fireballs. Plasma Sources Science and Technology, 2012, 21, 015012.	3.1	30
28	Whistler Modes in Highly Nonuniform Magnetic Fields. IEEE Transactions on Plasma Science, 2011, 39, 2458-2459.	1.3	3
29	Neutral gas dynamics in fireballs. Journal of Applied Physics, 2011, 109, 113305.	2.5	15
30	Transit time instabilities in an inverted fireball. II. Mode jumping and nonlinearities. Physics of Plasmas, 2011, 18, 012105.	1.9	27
31	Transit time instabilities in an inverted fireball. I. Basic properties. Physics of Plasmas, 2011, 18, 012104.	1.9	32
32	Electron-rich sheath dynamics. I. Transient currents and sheath-plasma instabilities. Physics of Plasmas, 2011, 18, 062112.	1.9	16
33	Electron-rich sheath dynamics. II. Sheath ionization and relaxation instabilities. Physics of Plasmas, 2011, 18, .	1.9	15
34	Positively Biased Probes in Magnetized Plasmas. Contributions To Plasma Physics, 2011, 51, 560-566.	1.1	1
35	High-Frequency Instabilities in Sheaths and Fireballs. IEEE Transactions on Plasma Science, 2011, 39, 2448-2449.	1.3	0
36	High frequency instability of a magnetized spherical electron sheath. Physics of Plasmas, 2010, 17, 062109.	1.9	7

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37	Nonlinear electron magnetohydrodynamic physics. VII. Magnetic loop antenna in a field-free plasma. Physics of Plasmas, 2009, 16, .	1.9	8
38	Nonlinear electron magnetohydrodynamic physics. VI. Magnetic loop antenna across the ambient field. Physics of Plasmas, 2009, 16, 022102.	1.9	3
39	Plasma Fireballs. IEEE Transactions on Plasma Science, 2008, 36, 1000-1001.	1.3	11
40	Dynamics of fireballs. Plasma Sources Science and Technology, 2008, 17, 035006.	3.1	70
41	Whistler Spheromaks. IEEE Transactions on Plasma Science, 2008, 36, 1170-1171.	1.3	1
42	Whistler spheromaks, instabilities and triggered emission experiments. Plasma Physics and Controlled Fusion, 2008, 50, 074009.	2.1	6
43	Field-Reversed Configurations in an Unmagnetized Plasma. Physical Review Letters, 2008, 101, 135002.	7.8	8
44	Nonlinear electron magnetohydrodynamics physics. V. Triggered whistler emissions. Physics of Plasmas, 2008, 15, 062110.	1.9	3
45	Nonlinear electron magnetohydrodynamics physics. II. Wave propagation and wave-wave interactions. Physics of Plasmas, 2008, 15, .	1.9	9
46	Nonlinear electron magnetohydrodynamics physics. I. Whistler spheromaks, mirrors, and field reversed configurations. Physics of Plasmas, 2008, 15, .	1.9	13
47	Nonlinear electron magnetohydrodynamics physics. III. Electron energization. Physics of Plasmas, 2008, 15, 042309.	1.9	7
48	Nonlinear electron magnetohydrodynamics physics. IV. Whistler instabilities. Physics of Plasmas, 2008, 15, 062109.	1.9	12
49	Whistler Instability in an Electron-Magnetohydrodynamic Spheromak. Physical Review Letters, 2007, 99, 265005.	7.8	16
50	Electron heating by nonlinear whistler waves. Plasma Physics and Controlled Fusion, 2007, 49, A17-A27.	2.1	11
51	Whistler Modes with Wave Magnetic Fields Exceeding the Ambient Field. Physical Review Letters, 2006, 96, 095004.	7.8	23
52	Three-dimensional electron magnetohydrodynamic reconnection. III. Energy conversion and electron heating. Physics of Plasmas, 2003, 10, 2801-2809.	1.9	10
53	Three-dimensional electron magnetohydrodynamic reconnection. II. Tilt and precession of a field-reversed configuration. Physics of Plasmas, 2003, 10, 2794-2800.	1.9	7
54	Three-dimensional electron magnetohydrodynamic reconnection. I. Fields, currents, and flows. Physics of Plasmas, 2003, 10, 2780-2793.	1.9	15

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55	Three-dimensional electron magnetohydrodynamic reconnection. IV. Instabilities, fluctuations, and emissions. Physics of Plasmas, 2003, 10, 2810-2818.	1.9	16
56	Precession of an Electron-Magnetohydrodynamic Field-Reversed Configuration. Physical Review Letters, 2002, 88, 185004.	7.8	5
57	A new laboratory experiment on magnetic reconnection. Physics of Plasmas, 2002, 9, 1925-1930.	1.9	18
58	3D EMHD reconnection in a laboratory plasma. Earth, Planets and Space, 2001, 53, 553-560.	2.5	12
59	Magnetic helicity reversal of a whistler vortex transmitted through a three-dimensional magnetic null point. Physics of Plasmas, 2001, 8, 4810-4815.	1.9	9
60	Vortices and Flux Ropes in Electron MHD Plasmas I. Physica Scripta, 2000, T84, 112.	2.5	11
61	Electron magnetohydrodynamic turbulence in a high-beta plasma. III. Conditionally averaged multipoint fluctuation measurements. Physics of Plasmas, 2000, 7, 4466-4476.	1.9	11
62	Electron magnetohydrodynamic turbulence in a high-beta plasma. II. Single point fluctuation measurements. Physics of Plasmas, 2000, 7, 4457-4465.	1.9	8
63	Laboratory studies of magnetic vortices. III. Collisions of electron magnetohydrodynamic vortices. Physics of Plasmas, 2000, 7, 519-528.	1.9	29
64	Electron magnetohydrodynamic turbulence in a high-beta plasma. I. Plasma parameters and instability conditions. Physics of Plasmas, 2000, 7, 4450-4456.	1.9	27
65	Secondary-Electron-Emission Instability in a Plasma. Physical Review Letters, 1999, 82, 556-559.	7.8	37
66	Laboratory studies of magnetic vortices. II. Helicity reversal during reflection of a magnetic vortex at a conducting boundary. Physics of Plasmas, 1999, 6, 3217-3225.	1.9	1
67	Laboratory studies of magnetic vortices. II. Helicity reversal during reflection of a magnetic vortex at a conducting boundary. Physics of Plasmas, 1999, 6, 4458-4466.	1.9	9
68	Laboratory studies of magnetic vortices. I. Directional radiation of whistler waves based on helicity injection. Physics of Plasmas, 1999, 6, 4450-4457.	1.9	16
69	On Conservation of Helicity and Energy of Reflecting Electron Magnetohydrodynamic Vortices. Physical Review Letters, 1999, 82, 4006-4009.	7.8	10
70	Laboratory studies of magnetic vortices. I. Directional radiation of whistler waves based on helicity injection. Physics of Plasmas, 1999, 6, 2989-2996.	1.9	4
71	Whistler waves in space and laboratory plasmas. Journal of Geophysical Research, 1999, 104, 14379-14395.	3.3	117
72	Transient current collection and closure for a laboratory tether. Geophysical Research Letters, 1998, 25, 733-736.	4.0	8

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73	Generation of dc Magnetic Fields by Rectifying Nonlinear Whistlers. Physical Review Letters, 1998, 81, 2064-2067.	7.8	21
74	Pulsed currents carried by whistlers. VIII. Current disruptions and instabilities caused by plasma erosion. Physics of Plasmas, 1997, 4, 26-35.	1.9	21
75	Pulsed currents carried by whistlers. IX. In situ measurements of currents disrupted by plasma erosion. Physics of Plasmas, 1997, 4, 36-52.	1.9	20
76	Helicity and Transport in Electron MHD Heat Pulses. Physical Review Letters, 1996, 76, 1469-1472.	7.8	6
77	Pulsed currents carried by whistlers. VII. Helicity and transport in heat pulses. Physics of Plasmas, 1996, 3, 2599-2609.	1.9	14
78	Pulsed currents carried by whistlers. VI. Nonlinear effects. Physics of Plasmas, 1996, 3, 2589-2598.	1.9	25
79	Pulsed currents carried by whistlers. V. Detailed new results of magnetic antenna excitation. Physics of Plasmas, 1995, 2, 4083-4093.	1.9	48
80	Pulsed currents carried by whistlers. III. Magnetic fields and currents excited by an electrode. Physics of Plasmas, 1995, 2, 1100-1113.	1.9	33
81	Pulsed currents carried by whistlers. IV. Electric fields and radiation excited by an electrode. Physics of Plasmas, 1995, 2, 1114-1128.	1.9	30
82	Multidimensional fourier analysis of a whistler pulse excited by a loop antenna. Geophysical Monograph Series, 1994, , 121-124.	0.1	0
83	Magnetic dipole antennas in moving plasmas: A laboratory simulation. Geophysical Monograph Series, 1994, , 129-133.	0.1	3
84	Inductive and space charge electric fields in a whistler wave packet. Physical Review Letters, 1994, 72, 1658-1661.	7.8	14
85	Beam scattering and heating at the front of an electron beam injected into a plasma. Physics of Plasmas, 1994, 1, 2063-2071.	1.9	9
86	Three-dimensional currents of electrodynamic tethers obtained from laboratory models. Geophysical Research Letters, 1994, 21, 413-416.	4.0	14
87	Thermal magnetic fluctuations of whistlers in a Maxwellian plasma. Physics of Fluids B, 1993, 5, 3122-3126.	1.7	13
88	Cyclotron harmonic lines in the thermal magnetic fluctuation spectrum of spiraling electrons in plasmas. Physics of Fluids B, 1993, 5, 3789-3797.	1.7	18
89	Pulsed currents carried by whistlers. Part I: Excitation by magnetic antennas. Physics of Fluids B, 1993, 5, 325-338.	1.7	58
90	A new probe for measuring small electric fields in plasmas. Review of Scientific Instruments, 1991, 62, 130-139	1.3	30

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91	Particle dynamics and currentâ€free double layers in an expanding, collisionless, twoâ€electronâ€population plasma. Physics of Fluids B, 1991, 3, 899-914.	1.7	90
92	Lowerâ€hybrid turbulence in a nonuniform magnetoplasma. Physics of Fluids B, 1991, 3, 2568-2581.	1.7	25
93	Nonlinear penetration of whistler pulses into collisional plasmas via conductivity modifications. Physical Review Letters, 1991, 67, 1867-1870.	7.8	18
94	Modeling of induced currents from electrodynamic tethers in a laboratory plasma. Geophysical Research Letters, 1990, 17, 1589-1592.	4.0	18
95	Transport of Current by Whistler Waves. Physical Review Letters, 1989, 62, 272-275.	7.8	32
96	Highâ€frequency instability of the sheath–plasma resonance. Physics of Fluids B, 1989, 1, 2273-2282.	1.7	56
97	Whistler wings from moving electrodes in a magnetized laboratory plasma. Geophysical Research Letters, 1989, 16, 361-364.	4.0	22
98	Highâ€frequency noise on antennas in plasmas. Physics of Fluids B, 1989, 1, 1369-1380.	1.7	26
99	Massâ€sensitive ion energy analyzer for multispecies plasmas. Review of Scientific Instruments, 1987, 58, 2099-2102.	1.3	5
100	Laboratory Experiments on Current Sheet Disruptions, Double Layers Turbulence and Reconnection. Symposium - International Astronomical Union, 1985, 107, 47-60.	0.1	2
101	Electromagnetic radiation and nonlinear energy flow in an electron beam-plasma system. Physics of Fluids, 1985, 28, 958.	1.4	46
102	Magnetic field line reconnection experiments: 6. Magnetic turbulence. Journal of Geophysical Research, 1984, 89, 2715-2733.	3.3	62
103	Observations of oddâ€half cyclotron harmonic emissions in a shellâ€Maxwellian laboratory plasma. Journal of Geophysical Research, 1983, 88, 7086-7094.	3.3	5
104	Nonlinear Energy Flow in a Beam-Plasma System. Physical Review Letters, 1983, 50, 1133-1136.	7.8	18
105	Electron temperature measurements using a 12â€channel array probe. Review of Scientific Instruments, 1983, 54, 935-939.	1.3	8
106	Directional velocity analyzer for measuring electron distribution functions in plasmas. Review of Scientific Instruments, 1983, 54, 1302-1310.	1.3	74
107	Double layer formation during current sheet disruptions in a reconnection experiment. Geophysical Research Letters, 1982, 9, 680-683.	4.0	18
108	Magnetic field line reconnection experiments, 4. Resistivity, heating, and energy flow. Journal of Geophysical Research, 1982, 87, 111-117.	3.3	70

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109	Novel directional ion energy analyzer. Review of Scientific Instruments, 1982, 53, 1027-1031.	1.3	75
110	Magnetic field line reconnection experiments 1. Field topologies. Journal of Geophysical Research, 1981, 86, 649-658.	3.3	100
111	Sheath expansion of plane probe by ionâ€beam reflection. Journal of Applied Physics, 1981, 52, 1197-1201.	2.5	22
112	Potential double layers formed by ion beam reflection in magnetized plasmas. Physics of Fluids, 1981, 24, 708.	1.4	49
113	Experiments on Magnetic-Field-Line Reconnection. Physical Review Letters, 1979, 42, 1055-1057.	7.8	71
114	Direct density display with a resonance cone rf probe. Review of Scientific Instruments, 1977, 48, 485-487.	1.3	6
115	Nonlinear interactions of focused resonance cone fields with plasmas. Physics of Fluids, 1977, 20, 108.	1.4	42
116	Observation of beam-generated VLF hiss in a large laboratory plasma. Journal of Geophysical Research, 1977, 82, 4805-4814.	3.3	63
117	Filamentation of large amplitude whistler waves. Geophysical Research Letters, 1976, 3, 61-64.	4.0	32
118	Antenna radiation patterns in the whistler wave regime measured in a large laboratory plasma. Radio Science, 1976, 11, 1045-1056.	1.6	69
119	Microwave resonator probe for localized density measurements in weakly magnetized plasmas. Review of Scientific Instruments, 1976, 47, 603-607.	1.3	221
120	Filamentation instability of a large amplitude whistler wave. Physics of Fluids, 1976, 19, 865.	1.4	120
121	Whistler wave propagation in a large magnetoplasma. Physics of Fluids, 1976, 19, 857.	1.4	143
122	Large, quiescent, magnetized plasma for wave studies. Review of Scientific Instruments, 1975, 46, 1386-1393.	1.3	50
123	Electrostatic waves near the lower hybrid frequency. Physical Review A, 1975, 11, 2057-2060.	2.5	28
124	Electron plasma waves in an unbounded uniform magnetoplasma. Physics of Fluids, 1973, 16, 565.	1.4	9
125	Energetic Ion Beam Source and Freeâ€Stream Beam Diagnostic Techniques. Review of Scientific Instruments, 1973, 44, 617-621.	1.3	5
126	Upperâ€Hybrid Resonance Absorption, Emission, and Heating of an Afterglow Plasma Column. Journal of Applied Physics, 1971, 42, 4225-4235.	2.5	19

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127	Measurements of Helicity and Reconnection in Electron MHD Plasmas. Geophysical Monograph Series, 0, , 179-186.	0.1	1
128	Laboratory Experiments on Magnetic Field Line Reconnection. Geophysical Monograph Series, 0, , 398-407.	0.1	3
129	Potential Double Layers in Strongly Magnetized Plasmas. Geophysical Monograph Series, 0, , 226-233.	0.1	3
130	Ion Acceleration in Laboratory Plasmas. Geophysical Monograph Series, 0, , 211-223.	0.1	1