

J Manuel Urrutia

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69

papers

873

citations

16

h-index

24

g-index

75

ext. papers

942

ext. citations

2.6

avg, IF

4.21

L-index

#	Paper	IF	Citations
69	Directional velocity analyzer for measuring electron distribution functions in plasmas. <i>Review of Scientific Instruments</i> , 1983 , 54, 1302-1310	1.7	64
68	Pulsed currents carried by whistlers. Part I: Excitation by magnetic antennas. <i>Physics of Fluids B</i> , 1993 , 5, 325-338		53
67	Pulsed currents carried by whistlers. V. Detailed new results of magnetic antenna excitation. <i>Physics of Plasmas</i> , 1995 , 2, 4083-4093	2.1	42
66	Helicons in Unbounded Plasmas. <i>Physical Review Letters</i> , 2015 , 114, 205005	7.4	31
65	Pulsed currents carried by whistlers. III. Magnetic fields and currents excited by an electrode. <i>Physics of Plasmas</i> , 1995 , 2, 1100-1113	2.1	31
64	Laboratory studies of magnetic vortices. III. Collisions of electron magnetohydrodynamic vortices. <i>Physics of Plasmas</i> , 2000 , 7, 519-528	2.1	28
63	Pulsed currents carried by whistlers. IV. Electric fields and radiation excited by an electrode. <i>Physics of Plasmas</i> , 1995 , 2, 1114-1128	2.1	28
62	Transport of current by whistler waves. <i>Physical Review Letters</i> , 1989 , 62, 272-275	7.4	27
61	Electron magnetohydrodynamic turbulence in a high-beta plasma. I. Plasma parameters and instability conditions. <i>Physics of Plasmas</i> , 2000 , 7, 4450-4456	2.1	24
60	Pulsed currents carried by whistlers. VI. Nonlinear effects. <i>Physics of Plasmas</i> , 1996 , 3, 2589-2598	2.1	22
59	Whistler wings from moving electrodes in a magnetized laboratory plasma. <i>Geophysical Research Letters</i> , 1989 , 16, 361-364	4.9	22
58	Pulsed currents carried by whistlers. VIII. Current disruptions and instabilities caused by plasma erosion. <i>Physics of Plasmas</i> , 1997 , 4, 26-35	2.1	20
57	Pulsed currents carried by whistlers. IX. In situ measurements of currents disrupted by plasma erosion. <i>Physics of Plasmas</i> , 1997 , 4, 36-52	2.1	19
56	Oscillating plasma bubbles. I. Basic properties and instabilities. <i>Physics of Plasmas</i> , 2012 , 19, 082105	2.1	18
55	Whistler modes with wave magnetic fields exceeding the ambient field. <i>Physical Review Letters</i> , 2006 , 96, 095004	7.4	18
54	A new laboratory experiment on magnetic reconnection. <i>Physics of Plasmas</i> , 2002 , 9, 1925-1930	2.1	18
53	Magnetic antenna excitation of whistler modes. I. Basic properties. <i>Physics of Plasmas</i> , 2014 , 21, 122107	2.1	16

52	Three-dimensional electron magnetohydrodynamic reconnection. IV. Instabilities, fluctuations, and emissions. <i>Physics of Plasmas</i> , 2003 , 10, 2810-2818	2.1	16
51	Three-dimensional electron magnetohydrodynamic reconnection. I. Fields, currents, and flows. <i>Physics of Plasmas</i> , 2003 , 10, 2780-2793	2.1	15
50	Modeling of induced currents from electrodynamic tethers in a laboratory plasma. <i>Geophysical Research Letters</i> , 1990 , 17, 1589-1592	4.9	15
49	Whistler instability in an electron-magnetohydrodynamic spheromak. <i>Physical Review Letters</i> , 2007 , 99, 265005	7.4	14
48	Laboratory studies of magnetic vortices. I. Directional radiation of whistler waves based on helicity injection. <i>Physics of Plasmas</i> , 1999 , 6, 4450-4457	2.1	14
47	Inductive and space charge electric fields in a whistler wave packet. <i>Physical Review Letters</i> , 1994 , 72, 1658-1661	7.4	14
46	Helicon modes in uniform plasmas. I. Low m modes. <i>Physics of Plasmas</i> , 2015 , 22, 092111	2.1	13
45	Magnetic antenna excitation of whistler modes. II. Antenna arrays. <i>Physics of Plasmas</i> , 2014 , 21, 122108	2.1	13
44	Helicon waves in uniform plasmas. IV. Bessel beams, Gendrin beams, and helicons. <i>Physics of Plasmas</i> , 2016 , 23, 052112	2.1	13
43	Helicon waves in uniform plasmas. II. High m numbers. <i>Physics of Plasmas</i> , 2015 , 22, 092112	2.1	12
42	Nonlinear electron magnetohydrodynamics physics. I. Whistler spheromaks, mirrors, and field reversed configurations. <i>Physics of Plasmas</i> , 2008 , 15, 042307	2.1	12
41	Nonlinear electron magnetohydrodynamics physics. IV. Whistler instabilities. <i>Physics of Plasmas</i> , 2008 , 15, 062109	2.1	12
40	Pulsed currents carried by whistlers. VII. Helicity and transport in heat pulses. <i>Physics of Plasmas</i> , 1996 , 3, 2599-2609	2.1	12
39	Vortices and Flux Ropes in Electron MHD Plasmas I. <i>Physica Scripta</i> , 2000 , T84, 112	2.6	11
38	Three-dimensional electron magnetohydrodynamic reconnection. III. Energy conversion and electron heating. <i>Physics of Plasmas</i> , 2003 , 10, 2801-2809	2.1	10
37	Electron magnetohydrodynamic turbulence in a high-beta plasma. III. Conditionally averaged multipoint fluctuation measurements. <i>Physics of Plasmas</i> , 2000 , 7, 4466-4476	2.1	10
36	Three-dimensional currents of electrodynamic tethers obtained from laboratory models. <i>Geophysical Research Letters</i> , 1994 , 21, 413-416	4.9	10
35	Nonlinear electron magnetohydrodynamics physics. II. Wave propagation and wave-wave interactions. <i>Physics of Plasmas</i> , 2008 , 15, 042308	2.1	9

34	Helicon modes in uniform plasmas. III. Angular momentum. <i>Physics of Plasmas</i> , 2015 , 22, 092113	2.1	9
33	Comparison of electric dipole and magnetic loop antennas for exciting whistler modes. <i>Physics of Plasmas</i> , 2016 , 23, 082120	2.1	9
32	Trivelpiece-Gould modes in a uniform unbounded plasma. <i>Physics of Plasmas</i> , 2016 , 23, 092103	2.1	9
31	Nonlinear electron magnetohydrodynamic physics. VII. Magnetic loop antenna in a field-free plasma. <i>Physics of Plasmas</i> , 2009 , 16, 022103	2.1	8
30	Oscillating plasma bubbles. II. Pulsed experiments. <i>Physics of Plasmas</i> , 2012 , 19, 082106	2.1	8
29	Transient current collection and closure for a laboratory tether. <i>Geophysical Research Letters</i> , 1998 , 25, 733-736	4.9	8
28	Laboratory studies of magnetic vortices. II. Helicity reversal during reflection of a magnetic vortex at a conducting boundary. <i>Physics of Plasmas</i> , 1999 , 6, 4458-4466	2.1	8
27	Magnetic dipole discharges. I. Basic properties. <i>Physics of Plasmas</i> , 2013 , 20, 083503	2.1	7
26	Oscillating plasma bubbles. III. Internal electron sources and sinks. <i>Physics of Plasmas</i> , 2012 , 19, 082107	2.1	7
25	Nonlinear electron magnetohydrodynamics physics. III. Electron energization. <i>Physics of Plasmas</i> , 2008 , 15, 042309	2.1	7
24	Three-dimensional electron magnetohydrodynamic reconnection. II. Tilt and precession of a field-reversed configuration. <i>Physics of Plasmas</i> , 2003 , 10, 2794-2800	2.1	7
23	Vortices and Flux Ropes in Electron MHD Plasmas II. <i>Physica Scripta</i> , 2000 , T84, 117	2.6	7
22	Helicons in uniform fields. II. Poynting vector and angular momenta. <i>Physics of Plasmas</i> , 2018 , 25, 032112	2.1	6
21	Magnetic antenna excitation of whistler modes. IV. Receiving antennas and reciprocity. <i>Physics of Plasmas</i> , 2015 , 22, 072110	2.1	6
20	Electron magnetohydrodynamic turbulence in a high-beta plasma. II. Single point fluctuation measurements. <i>Physics of Plasmas</i> , 2000 , 7, 4457-4465	2.1	6
19	Helicons in uniform fields. I. Wave diagnostics with hodograms. <i>Physics of Plasmas</i> , 2018 , 25, 032111	2.1	5
18	Magnetic dipole discharges. II. Cathode and anode spot discharges and probe diagnostics. <i>Physics of Plasmas</i> , 2013 , 20, 083504	2.1	5
17	Whistler modes in highly nonuniform magnetic fields. II. Propagation in three dimensions. <i>Physics of Plasmas</i> , 2018 , 25, 082109	2.1	4

16	Whistler modes in highly nonuniform magnetic fields. I. Propagation in two-dimensions. <i>Physics of Plasmas</i> , 2018 , 25, 082108	2.1	4
15	Magnetic antenna excitation of whistler modes. III. Group and phase velocities of wave packets. <i>Physics of Plasmas</i> , 2015 , 22, 072109	2.1	4
14	Helicity and transport in electron MHD heat pulses. <i>Physical Review Letters</i> , 1996 , 76, 1469-1472	7.4	4
13	Observations of odd-half cyclotron harmonic emissions in a shell-Maxwellian laboratory plasma. <i>Journal of Geophysical Research</i> , 1983 , 88, 7086		4
12	New properties of whistler modes. <i>Geophysical Research Letters</i> , 2017 , 44, 2113-2119	4.9	3
11	Whistler modes in highly nonuniform magnetic fields. III. Propagation near mirror and cusp fields. <i>Physics of Plasmas</i> , 2018 , 25, 082110	2.1	3
10	Nonlinear electron magnetohydrodynamic physics. VI. Magnetic loop antenna across the ambient field. <i>Physics of Plasmas</i> , 2009 , 16, 022102	2.1	3
9	Nonlinear electron magnetohydrodynamic physics. V. Triggered whistler emissions. <i>Physics of Plasmas</i> , 2008 , 15, 062110	2.1	3
8	Laboratory studies of magnetic vortices. I. Directional radiation of whistler waves based on helicity injection. <i>Physics of Plasmas</i> , 1999 , 6, 2989-2996	2.1	3
7	Magnetic Dipole Antennas in Moving Plasmas: a Laboratory Simulation. <i>Geophysical Monograph Series</i> , 1994 , 129-133	1.1	3
6	Whistler Modes in Highly Nonuniform Magnetic Fields. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 2458-2459	1.3	2
5	Measurements of Helicity and Reconnection in Electron MHD Plasmas. <i>Geophysical Monograph Series</i> , 2013 , 179-186	1.1	1
4	Positively Biased Probes in Magnetized Plasmas. <i>Contributions To Plasma Physics</i> , 2011 , 51, 560-566	1.4	1
3	Whistler Spheromaks. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 1170-1171	1.3	1
2	Laboratory studies of magnetic vortices. II. Helicity reversal during reflection of a magnetic vortex at a conducting boundary. <i>Physics of Plasmas</i> , 1999 , 6, 3217-3225	2.1	1
1	Multidimensional Fourier Analysis of a Whistler Pulse Excited by a Loop Antenna. <i>Geophysical Monograph Series</i> , 1994 , 121-124	1.1	