

Luiz F Ziebell

List of Publications by Year in descending order

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130
papers

1,533
citations

331670

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131
all docs

131
docs citations

131
times ranked

511
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron Acceleration by Quasilinear Processes in the Presence of a Ring-beam Electron Population. Brazilian Journal of Physics, 2022, 52, 1.	1.4	0
2	Oblique Alfvén waves in a stellar wind environment with dust particles charged by inelastic collisions and by photoionization. Monthly Notices of the Royal Astronomical Society, 2022, 512, 1795-1804.	4.4	2
3	Weakly turbulent plasma processes leading to plasma emission in the presence of a ring-beam electron population. Astrophysics and Space Science, 2021, 366, 1.	1.4	2
4	Multiple harmonics of electron waves studied using weak turbulence theory in a two-dimensional formulation. Physics of Plasmas, 2021, 28, 102302.	1.9	0
5	Electrostatic weak turbulence theory for warm magnetized plasmas. Physics of Plasmas, 2021, 28, 122302.	1.9	0
6	Bremsstrahlung emission and collisional damping rate for Langmuir waves. Plasma Physics and Controlled Fusion, 2019, 61, 125008.	2.1	1
7	Particle-in-cell and Weak Turbulence Simulations of Plasma Emission. Astrophysical Journal, 2019, 871, 74.	4.5	25
8	On the Influence of the Shape of Kappa Distributions of Ions and Electrons on the Ion Firehose Instability. Brazilian Journal of Physics, 2019, 49, 526-538.	1.4	2
9	On the effect of electron cyclotron waves on the evolution of neoclassical tearing modes in tokamak plasmas. Plasma Physics and Controlled Fusion, 2019, 61, 065021.	2.1	2
10	The oblique firehose instability in a bi-kappa magnetized plasma. Physics of Plasmas, 2018, 25, .	1.9	3
11	Electromagnetic ion-cyclotron instability in a dusty plasma with product-bi-kappa distributions for the plasma particles. Astrophysics and Space Science, 2017, 362, 1.	1.4	5
12	On the influence of the shape of kappa distributions of ions and electrons on the ion-cyclotron instability. Physics of Plasmas, 2017, 24, .	1.9	7
13	Dispersion relation for electrostatic waves in plasmas with isotropic and anisotropic Kappa distributions for electrons and ions. Journal of Plasma Physics, 2017, 83, .	2.1	11
14	Generation of Suprathermal Electrons by Collective Processes in Collisional Plasma. Astrophysical Journal Letters, 2017, 849, L30.	8.3	3
15	Weakly turbulent plasma processes in the presence of inverse power-law velocity tail population. Physics of Plasmas, 2017, 24, 112902.	1.9	2
16	PLASMA EMISSION BY COUNTER-STREAMING ELECTRON BEAMS. Astrophysical Journal, 2016, 818, 61.	4.5	12
17	Ion firehose instability in a dusty plasma considering product-bi-kappa distributions for the plasma particles. Physics of Plasmas, 2016, 23, .	1.9	8
18	Two dimensional kinetic analysis of electrostatic harmonic plasma waves. Physics of Plasmas, 2016, 23, 062310.	1.9	2

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19	Collisional damping rates for plasma waves. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	12
20	Two-dimensional time evolution of beam-plasma instability in the presence of binary collisions. <i>Astronomy and Astrophysics</i> , 2016, 586, A19.	5.1	38
21	Weak turbulence theory for collisional plasmas. <i>Physical Review E</i> , 2016, 93, 033203.	2.1	24
22	The general dielectric tensor for bi-kappa magnetized plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	15
23	Obliquely propagating electromagnetic waves in magnetized kappa plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	21
24	Ion-cyclotron instability in plasmas described by product-bi-kappa distributions. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	14
25	Weak turbulence in dusty plasmas with collisional dust charging: Quasilinear wave-particle interaction. <i>Physical Review E</i> , 2015, 92, 023102.	2.1	6
26	On the dimensionally correct kinetic theory of turbulence for parallel propagation. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	16
27	PLASMA EMISSION BY NONLINEAR ELECTROMAGNETIC PROCESSES. <i>Astrophysical Journal</i> , 2015, 806, 237.	4.5	58
28	PLASMA EMISSION BY WEAK TURBULENCE PROCESSES. <i>Astrophysical Journal Letters</i> , 2014, 795, L32.	8.3	38
29	Spontaneous emission of electromagnetic radiation in turbulent plasmas. <i>Physics of Plasmas</i> , 2014, 21, 010701.	1.9	35
30	Transition from thermal to turbulent equilibrium with a resulting electromagnetic spectrum. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	12
31	Ion firehose instability in plasmas with plasma particles described by product bi-kappa distributions. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	14
32	The dispersion relations of dispersive Alfvén waves in superthermal plasmas. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9334-9356.	2.4	21
33	Particle-in-cell simulations on spontaneous thermal magnetic field fluctuations. <i>Physics of Plasmas</i> , 2013, 20, 100702.	1.9	3
34	Solar Wind Electron Acceleration via Langmuir Turbulence. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2013, 24, 175.	0.6	6
35	SOLAR WIND STRAHL BROADENING BY SELF-GENERATED PLASMA WAVES. <i>Astrophysical Journal Letters</i> , 2013, 769, L30.	8.3	26
36	Perfectly conducting loop of wire moving through a uniform and stationary magnetic field. <i>Revista Brasileira De Ensino De Fisica</i> , 2013, 35, 01-07.	0.2	0

#	ARTICLE	IF	CITATIONS
37	Electromagnetic weak turbulence theory revisited. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	50
38	Alfvén waves in dusty plasmas with plasma particles described by anisotropic kappa distributions. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	5
39	Langmuir Turbulence and Suprathermal Electrons. <i>Space Science Reviews</i> , 2012, 173, 459-489.	8.1	55
40	Kinetic theory of magnetized dusty plasmas with dust particles charged by collisional processes and by photoionization. <i>Physics of Plasmas</i> , 2012, 19, 093702.	1.9	4
41	Langmuir condensation by spontaneous scattering off electrons in two dimensions. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 055012.	2.1	14
42	Langmuir Turbulence and Suprathermal Electrons. <i>Space Sciences Series of ISSI</i> , 2012, , 459-489.	0.0	1
43	Ion-acoustic enhancements generated by beam-plasma instability in an auroral cavity. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	6
44	Two-dimensional quasilinear beam-plasma instability in inhomogeneous media. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 085004.	2.1	12
45	The Dielectric Tensor for Magnetized Dusty Plasmas with Superthermal Plasma Populations and Dust Particles of Different Sizes. <i>Brazilian Journal of Physics</i> , 2011, 41, 258-274.	1.4	10
46	Reply to comment on "The role of the RF induced electric field in the current drive by EC waves in the presence of magnetic islands". <i>Nuclear Fusion</i> , 2011, 51, 068002.	3.5	0
47	NONLINEAR EVOLUTION OF BEAM-PLASMA INSTABILITY IN INHOMOGENEOUS MEDIUM. <i>Astrophysical Journal</i> , 2011, 727, 16.	4.5	27
48	Effect of superthermal electrons on Alfvén wave propagation in the dusty plasmas of solar and stellar winds. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	18
49	The role of the RF induced electric field in the current drive by EC waves in the presence of magnetic islands. <i>Nuclear Fusion</i> , 2010, 50, 115009.	3.5	4
50	Generation of quasi-isotropic electron population during nonlinear beam-plasma interaction. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	7
51	Ionospheric ion-acoustic enhancements by turbulent counterstreaming electron beam-plasma interaction. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	11
52	Effects of dust charge variation on electrostatic waves in dusty plasmas with temperature anisotropy. <i>Brazilian Journal of Physics</i> , 2009, 39, 112-133.	1.4	2
53	Simulation of asymmetric solar wind electron distributions. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	6
54	Obliquely propagating Alfvén waves in a Maxwellian dusty plasma. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 015011.	2.1	10

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55	Radio-frequency current drive efficiency in the presence of ITBs and a dc electric field. Nuclear Fusion, 2009, 49, 055005.	3.5	0
56	Decay of beam-driven Langmuir wave into ion-acoustic turbulence in two dimensions. Plasma Physics and Controlled Fusion, 2009, 51, 095011.	2.1	11
57	Two-dimensional nonlinear dynamics of bidirectional beam-plasma instability. Journal of Geophysical Research, 2009, 114, .	3.3	11
58	Asymmetric Solar Wind Electron Superthermal Distributions. Astrophysical Journal, 2008, 677, 676-682.	4.5	37
59	Effect of perpendicular gradients on the amplification of Auroral Kilometric Radiation in auroral cavities with density depletions. Journal of Geophysical Research, 2008, 113, .	3.3	0
60	Current drive by EC waves in the presence of magnetic islands and transport. Plasma Physics and Controlled Fusion, 2008, 50, 095002.	2.1	8
61	Two-dimensional nonlinear dynamics of beam-plasma instability. Plasma Physics and Controlled Fusion, 2008, 50, 085011.	2.1	59
62	Dynamics of Langmuir wave decay in two dimensions. Physics of Plasmas, 2008, 15, .	1.9	29
63	A new formulation for the dielectric tensor for magnetized dusty plasmas with variable charge on the dust particles. Brazilian Journal of Physics, 2008, 38, .	1.4	8
64	Effect of charged dust particles on the ion cyclotron and firehose instabilities. Journal of Geophysical Research, 2007, 112, .	3.3	11
65	Mode-coupling of low-frequency electromagnetic waves in dusty plasmas with temperature anisotropy. Physics of Plasmas, 2007, 14, 022104.	1.9	10
66	Further study of flickering auroral roar emission: 2. Theory and numerical calculations. Journal of Geophysical Research, 2006, 111, .	3.3	3
67	Electrostatic waves in a Maxwellian dusty plasma with variable charge on dust particles. Brazilian Journal of Physics, 2006, 36, 759-771.	1.4	12
68	Efficiency of LH+EC current drive in tokamaks featuring an internal transport barrier. Brazilian Journal of Physics, 2005, 35, 670-679.	1.4	1
69	Damping and mode-coupling for low-frequency electromagnetic waves in a dusty plasma with dust charge fluctuation. AIP Conference Proceedings, 2005, , .	0.4	0
70	Efficiency of LH current drive in tokamaks featuring an internal transport barrier. Plasma Physics and Controlled Fusion, 2005, 47, 249-267.	2.1	1
71	Mode coupling of low frequency electromagnetic waves in magnetized dusty plasmas. Physics of Plasmas, 2005, 12, 082102.	1.9	13
72	Effects of dust-charge fluctuation on the damping of Alfvén waves in dusty plasmas. Physics of Plasmas, 2005, 12, 052109.	1.9	23

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73	The dispersion relation for electrostatic fluctuations in weakly inhomogeneous plasmas. Brazilian Journal of Physics, 2004, 34, 1638-1644.	1.4	1
74	The effective dielectric tensor for electromagnetic waves in inhomogeneous magnetized plasmas and the proper formulation in the electrostatic limit. Brazilian Journal of Physics, 2004, 34, 1211-1223.	1.4	5
75	The effective longitudinal dielectric constant for plasmas in inhomogeneous magnetic fields. Brazilian Journal of Physics, 2004, 34, 1224-1240.	1.4	1
76	Effect of radial transport on the LH current drive efficiency in tokamaks featuring an internal transport barrier. Brazilian Journal of Physics, 2004, 34, .	1.4	0
77	On the Onsager symmetry of the effective dielectric tensor for plasmas in inhomogeneous magnetic field. Brazilian Journal of Physics, 2004, 34, 1645-1650.	1.4	0
78	Tribute to Dr. Darcy Dillenburg. Brazilian Journal of Physics, 2004, 34, 1828-1829.	1.4	0
79	Stochastic diffusion of energetic ions due to incoherent lower hybrid waves. Brazilian Journal of Physics, 2003, 33, 806-812.	1.4	0
80	Stochastic diffusion of ions due to a finite set of lower hybrid waves. Physical Review E, 2002, 66, 056409.	2.1	1
81	Unified formulation for inhomogeneity-driven instabilities in the lower-hybrid range. Physical Review E, 2002, 65, 036407.	2.1	13
82	Generation of harmonic Langmuir mode by beam-plasma instability. Physics of Plasmas, 2002, 9, 96-110.	1.9	17
83	EC \tilde{A} LH current drive efficiency in the presence of an internal transport barrier. Plasma Physics and Controlled Fusion, 2002, 44, 2065-2090.	2.1	6
84	A non-local synergism between electron cyclotron waves and lower hybrid waves induced by transport. Plasma Physics and Controlled Fusion, 2001, 43, 1485-1502.	2.1	1
85	Nonlinear development of weak beam-plasma instability. Physics of Plasmas, 2001, 8, 3982-3995.	1.9	72
86	Interaction between lower hybrid waves and energetic ions in a tokamak system. Plasma Physics and Controlled Fusion, 2000, 42, 359-375.	2.1	3
87	Excitation of Langmuir waves in interplanetary space. Journal of Geophysical Research, 2000, 105, 27369-27375.	3.3	2
88	Maser-beam instability of Bernstein waves. Physics of Plasmas, 2000, 7, 4720-4728.	1.9	7
89	Effects of radial particle diffusion on the electron cyclotron absorption coefficient in tokamak plasmas in the presence of lower hybrid waves. Plasma Physics and Controlled Fusion, 1999, 41, 525-540.	2.1	6
90	Dielectric tensor for inhomogeneous plasmas in inhomogeneous magnetic field. Physics of Plasmas, 1999, 6, 4533-4541.	1.9	2

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91	Stochastic diffusion of energetic ions due to lower hybrid waves. Brazilian Journal of Physics, 1998, 28, .	1.4	2
92	The threshold condition for stochastic diffusion of energetic ions due to lower hybrid waves. Brazilian Journal of Physics, 1998, 28, .	1.4	2
93	Quasilinear evolution of the weakly relativistic electron cyclotron maser instability. Physics of Plasmas, 1997, 4, 2697-2706.	1.9	1
94	Dispersion function for plasmas with loss-cone distributions in an inhomogeneous magnetic field. Physical Review E, 1997, 55, 5859-5873.	2.1	10
95	Comment on "Onsager symmetry for inhomogeneous magnetized plasmas" [Phys. Plasmas 3, 4325 (1996)]. Physics of Plasmas, 1997, 4, 3091-3093.	1.9	3
96	Two-dimensional Hall-MHD simulation of current sheet dynamics during substorm growth phase. Journal of Geophysical Research, 1997, 102, 26979-26991.	3.3	11
97	Emission and propagation of auroral kilometric radiation in the density depletions of the auroral region. Journal of Geophysical Research, 1996, 101, 24557-24564.	3.3	2
98	Quasi-linear effects on the absorption of electron cyclotron waves by lower hybrid produced electron tails in tokamak plasmas. Plasma Physics and Controlled Fusion, 1996, 38, 375-388.	2.1	6
99	An Emission Mechanism for Extragalactic Radio Jets. Astrophysical Journal, 1996, 459, 529.	4.5	4
100	Dispersion relation and the dielectric tensor for magnetized plasmas with inhomogeneous magnetic field. Physical Review E, 1995, 51, 2407-2424.	2.1	6
101	Quasilinear evolution of cyclotron maser instability. Physical Review E, 1995, 51, 4908-4916.	2.1	10
102	Quasilinear analysis of loss-cone driven weakly relativistic electron cyclotron maser instability. Physics of Plasmas, 1995, 2, 1285-1295.	1.9	8
103	Ray tracing studies on auroral kilometric radiation in finite width auroral cavities. Journal of Geophysical Research, 1994, 99, 8905.	3.3	13
104	Electron-cyclotron absorption by inhomogeneous current-carrying plasmas. Journal of Plasma Physics, 1994, 52, 195-214.	2.1	4
105	Quasi-linear evolution of electron cyclotron absorption by an RF-generated extended tail in tokamak plasmas. Plasma Physics and Controlled Fusion, 1993, 35, 511-529.	2.1	11
106	Quasilinear studies on lower hybrid current generation in tokamak plasmas. Plasma Physics and Controlled Fusion, 1992, 34, 533-548.	2.1	4
107	A purely growing electromagnetic mode operative in the geomagnetic tail. Journal of Geophysical Research, 1992, 97, 141-151.	3.3	17
108	Propagation and amplification of auroral kilometric radiation in finite width auroral cavities. Journal of Geophysical Research, 1992, 97, 19299-19310.	3.3	7

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109	Kilometric radio waves generated along auroral field lines observed by ground facilities: A theoretical model. <i>Journal of Geophysical Research</i> , 1991, 96, 1495-1501.	3.3	11
110	Self-consistent pitch angle diffusion of newborn ions. <i>Journal of Geophysical Research</i> , 1991, 96, 5469-5478.	3.3	11
111	Quasilinear diffusion rates of cometary ions. <i>Physics of Fluids B</i> , 1991, 3, 2124-2132.	1.7	3
112	Transition from reactive to kinetic electromagnetic instabilities generated by ring-beam ions. <i>Physics of Fluids B</i> , 1991, 3, 2455-2462.	1.7	1
113	Inhomogeneity effects on the absorption of electromagnetic high-frequency waves by magnetized Maxwellian plasmas. <i>Journal of Plasma Physics</i> , 1990, 43, 335-356.	2.1	9
114	Pitch angle diffusion of newborn ions due to intrinsic turbulence in the solar wind. <i>Journal of Geophysical Research</i> , 1990, 95, 17075-17083.	3.3	12
115	Development of pitch angle anisotropy and velocity diffusion of pickup ion shell distribution by solar wind turbulence. <i>Journal of Geophysical Research</i> , 1990, 95, 17085-17094.	3.3	6
116	Pitch angle and velocity diffusions of newborn ions by turbulence in the solar wind. <i>Journal of Geophysical Research</i> , 1990, 95, 21203-21211.	3.3	10
117	The dispersion relation and the dielectric tensor of inhomogeneous magnetized plasmas. <i>Journal of Plasma Physics</i> , 1989, 42, 165-175.	2.1	10
118	Electron cyclotron absorption for oblique propagation in loss-cone plasmas. <i>Journal of Plasma Physics</i> , 1988, 39, 431-446.	2.1	11
119	Power dependence of electron cyclotron wave damping in tokamak plasmas. <i>Physics of Fluids</i> , 1987, 30, 438.	1.4	20
120	Cross-effect on electron cyclotron and lower hybrid current drive in tokamak plasmas. <i>Nuclear Fusion</i> , 1987, 27, 579-587.	3.5	44
121	Electron cyclotron wave damping for oblique propagation in hot plasmas. <i>Nuclear Fusion</i> , 1986, 26, 1537-1542.	3.5	9
122	Angular and momentum distribution dependence of electron cyclotron absorption and amplification in mirror-confined plasmas. <i>Physics of Fluids</i> , 1986, 29, 3730.	1.4	5
123	Electron-cyclotron heating of a tokamak reactor with the extraordinary mode. <i>Physics of Fluids</i> , 1986, 29, 803.	1.4	18
124	Electron cyclotron wave absorption by the fast tail generated by the DC electric field in Tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 1985, 27, 1151-1161.	2.1	4
125	Effect of electron thermal anisotropy on the kinetic cross-field streaming instability. <i>Journal of Plasma Physics</i> , 1984, 32, 159-178.	2.1	22
126	Excitation of whistler waves by reflected auroral electrons. <i>Planetary and Space Science</i> , 1983, 31, 499-507.	1.7	29

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127	Induced electron-cyclotron emission from inhomogeneous, anisotropic plasmas with electron population inversion. <i>Physics of Fluids</i> , 1983, 26, 80.	1.4	5
128	Electromagnetic cyclotron-loss-cone instability associated with weakly relativistic electrons. <i>Journal of Plasma Physics</i> , 1982, 28, 503-525.	2.1	67
129	Electron cyclotron emission from tokamak plasmas with mildly superthermal electrons. <i>Physics of Fluids</i> , 1980, 23, 1336.	1.4	41
130	Excitation of low frequency waves by streaming ions via anomalous cyclotron resonance. <i>Physics of Fluids</i> , 1978, 21, 1318.	1.4	2