

Luca Comisso

List of Publications by Year in descending order

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44
papers

1,101
citations

430874

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395702

33
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all docs

46
docs citations

46
times ranked

1180
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle Acceleration in Relativistic Plasma Turbulence. <i>Physical Review Letters</i> , 2018, 121, 255101.	7.8	118
2	General theory of the plasmoid instability. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	113
3	The Interplay of Magnetically Dominated Turbulence and Magnetic Reconnection in Producing Nonthermal Particles. <i>Astrophysical Journal</i> , 2019, 886, 122.	4.5	91
4	Plasmoid Instability in Evolving Current Sheets and Onset of Fast Reconnection. <i>Astrophysical Journal</i> , 2017, 849, 75.	4.5	66
5	Plasmoid Instability in Forming Current Sheets. <i>Astrophysical Journal</i> , 2017, 850, 142.	4.5	58
6	Role of the Plasmoid Instability in Magnetohydrodynamic Turbulence. <i>Physical Review Letters</i> , 2018, 121, 165101.	7.8	58
7	On the value of the reconnection rate. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	55
8	Thermal-Inertial Effects on Magnetic Reconnection in Relativistic Pair Plasmas. <i>Physical Review Letters</i> , 2014, 113, 045001.	7.8	44
9	Magnetohydrodynamic Turbulence in the Plasmoid-mediated Regime. <i>Astrophysical Journal</i> , 2018, 854, 103.	4.5	39
10	Gyro-induced acceleration of magnetic reconnection. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	36
11	Extended theory of the Taylor problem in the plasmoid-unstable regime. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	35
12	Generalized Magnetofluid Connections in Relativistic Magnetohydrodynamics. <i>Physical Review Letters</i> , 2015, 114, 115003.	7.8	30
13	Visco-resistive plasmoid instability. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	30
14	Interpreting Crab Nebula's synchrotron spectrum: two acceleration mechanisms. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 2403-2416.	4.4	27
15	Magnetic reconnection as a mechanism for energy extraction from rotating black holes. <i>Physical Review D</i> , 2021, 103, .	4.7	25
16	Nonlinear response of magnetic islands to localized electron cyclotron current injection. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	23
17	Numerical investigation of a compressible gyrofluid model for collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	20
18	Hard Synchrotron Spectra from Magnetically Dominated Plasma Turbulence. <i>Astrophysical Journal Letters</i> , 2020, 895, L40.	8.3	20

#	ARTICLE	IF	CITATIONS
19	Two-dimensional effects in the problem of tearing modes control by electron cyclotron current drive. Nuclear Fusion, 2010, 50, 125002.	3.5	18
20	Pitch-Angle Anisotropy Controls Particle Acceleration and Cooling in Radiative Relativistic Plasma Turbulence. Physical Review Letters, 2021, 127, 255102.	7.8	17
21	Nonlinear response of a neoclassical four-field magnetic reconnection model to localized current drive. Physics of Plasmas, 2010, 17, 052509.	1.9	15
22	Generalized magnetofluid connections in pair plasmas. Physics of Plasmas, 2015, 22, .	1.9	13
23	Relativistic Magnetic Reconnection in Kerr Spacetime. Physical Review Letters, 2017, 118, 055101.	7.8	13
24	Scalings pertaining to current sheet disruption mediated by the plasmoid instability. Physics of Plasmas, 2019, 26, 092112.	1.9	10
25	Phase diagrams of forced magnetic reconnection in Taylor's model. Journal of Plasma Physics, 2015, 81, .	2.1	9
26	Nonlinear resistivity for magnetohydrodynamical models. Physics of Plasmas, 2017, 24, 042120.	1.9	9
27	A maximum entropy principle for inferring the distribution of 3D plasmoids. Physics of Plasmas, 2018, 25, .	1.9	9
28	Turbulent Model of Crab Nebula Radiation. Astrophysical Journal, 2020, 896, 147.	4.5	9
29	Magnetic reconnection controlled by external current drive. Plasma Physics and Controlled Fusion, 2011, 53, 054012.	2.1	8
30	Formation of plasmoid chains in fusion relevant plasmas. Journal of Physics: Conference Series, 2014, 561, 012004.	0.4	8
31	Fluid moments of the nonlinear Landau collision operator. Physics of Plasmas, 2016, 23, .	1.9	8
32	Open problems of magnetic island control by electron cyclotron current drive. Journal of Plasma Physics, 2016, 82, .	2.1	8
33	Generalized magnetofluid connections in a curved spacetime. Physical Review D, 2020, 102, .	4.7	8
34	Gravitational electromotive force in magnetic reconnection around Schwarzschild black holes. Physical Review D, 2019, 99, .	4.7	7
35	Magnetic connections in curved spacetime. Physical Review D, 2017, 96, .	4.7	6
36	Magnetic island suppression by electron cyclotron current drive as converse of a forced reconnection problem. Journal of Plasma Physics, 2018, 84, .	2.1	6

#	ARTICLE	IF	CITATIONS
37	Numerical comparison between a gyrofluid and gyrokinetic model investigating collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	5
38	Physics conditions for robust control of tearing modes in a rotating tokamak plasma. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 014044.	2.1	5
39	Coexistence of Plasmoid and Kelvin-Helmholtz Instabilities in Collisionless Plasma Turbulence. <i>Astrophysical Journal</i> , 2022, 929, 62.	4.5	5
40	Nonlinear 2-D effects in the control of magnetic Islands by ECCD. <i>AIP Conference Proceedings</i> , 2014, , .	0.4	3
41	Linear stability analysis of collisionless reconnection in the presence of an equilibrium flow aligned with the guide field. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	3
42	Nonlinear and Diamagnetic Effects in a Neoclassical Model of Magnetic Reconnection. , 2011, , .		2
43	Fast gyrofluid reconnection in high temperature plasmas. <i>Journal of Physics: Conference Series</i> , 2012, 401, 012005.	0.4	2
44	Magnetic island evolution under the action of electron cyclotron current drive. <i>Journal of Physics: Conference Series</i> , 2012, 401, 012002.	0.4	0