

# Luca Comisso

## List of Publications by Year in descending order

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44  
papers

1,101  
citations

430874

18  
h-index

395702

33  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1180  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coexistence of Plasmoid and Kelvin-Helmholtz Instabilities in Collisionless Plasma Turbulence. <i>Astrophysical Journal</i> , 2022, 929, 62.	4.5	5
2	Magnetic reconnection as a mechanism for energy extraction from rotating black holes. <i>Physical Review D</i> , 2021, 103, .	4.7	25
3	Pitch-Angle Anisotropy Controls Particle Acceleration and Cooling in Radiative Relativistic Plasma Turbulence. <i>Physical Review Letters</i> , 2021, 127, 255102.	7.8	17
4	Generalized magnetofluid connections in a curved spacetime. <i>Physical Review D</i> , 2020, 102, .	4.7	8
5	Hard Synchrotron Spectra from Magnetically Dominated Plasma Turbulence. <i>Astrophysical Journal Letters</i> , 2020, 895, L40.	8.3	20
6	Turbulent Model of Crab Nebula Radiation. <i>Astrophysical Journal</i> , 2020, 896, 147.	4.5	9
7	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
8	Scalings pertaining to current sheet disruption mediated by the plasmoid instability. <i>Physics of Plasmas</i> , 2019, 26, 092112.	1.9	10
9	Gravitational electromotive force in magnetic reconnection around Schwarzschild black holes. <i>Physical Review D</i> , 2019, 99, .	4.7	7
10	The Interplay of Magnetically Dominated Turbulence and Magnetic Reconnection in Producing Nonthermal Particles. <i>Astrophysical Journal</i> , 2019, 886, 122.	4.5	91
11	Magnetohydrodynamic Turbulence in the Plasmoid-mediated Regime. <i>Astrophysical Journal</i> , 2018, 854, 103.	4.5	39
12	A maximum entropy principle for inferring the distribution of 3D plasmoids. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	9
13	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
14	Particle Acceleration in Relativistic Plasma Turbulence. <i>Physical Review Letters</i> , 2018, 121, 255101.	7.8	118
15	Role of the Plasmoid Instability in Magnetohydrodynamic Turbulence. <i>Physical Review Letters</i> , 2018, 121, 165101.	7.8	58
16	Magnetic island suppression by electron-cyclotron current drive as converse of a forced reconnection problem. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	6
17	Nonlinear resistivity for magnetohydrodynamical models. <i>Physics of Plasmas</i> , 2017, 24, 042120.	1.9	9
18	Relativistic Magnetic Reconnection in Kerr Spacetime. <i>Physical Review Letters</i> , 2017, 118, 055101.	7.8	13

#	ARTICLE	IF	CITATIONS
19	Plasmoid Instability in Forming Current Sheets. <i>Astrophysical Journal</i> , 2017, 850, 142.	4.5	58
20	Plasmoid Instability in Evolving Current Sheets and Onset of Fast Reconnection. <i>Astrophysical Journal</i> , 2017, 849, 75.	4.5	66
21	Magnetic connections in curved spacetime. <i>Physical Review D</i> , 2017, 96, .	4.7	6
22	Fluid moments of the nonlinear Landau collision operator. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	8
23	General theory of the plasmoid instability. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	113
24	Open problems of magnetic island control by electron cyclotron current drive. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	8
25	Visco-resistive plasmoid instability. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	30
26	On the value of the reconnection rate. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	55
27	Phase diagrams of forced magnetic reconnection in Taylor's model. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	9
28	Generalized magnetofluid connections in pair plasmas. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	13
29	Generalized Magnetofluid Connections in Relativistic Magnetohydrodynamics. <i>Physical Review Letters</i> , 2015, 114, 115003.	7.8	30
30	Extended theory of the Taylor problem in the plasmoid-unstable regime. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	35
31	Nonlinear 2-D effects in the control of magnetic Islands by ECCD. <i>AIP Conference Proceedings</i> , 2014, , .	0.4	3
32	Thermal-Inertial Effects on Magnetic Reconnection in Relativistic Pair Plasmas. <i>Physical Review Letters</i> , 2014, 113, 045001.	7.8	44
33	Numerical comparison between a gyrofluid and gyrokinetic model investigating collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	5
34	Nonlinear response of magnetic islands to localized electron cyclotron current injection. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	23
35	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
36	Formation of plasmoid chains in fusion relevant plasmas. <i>Journal of Physics: Conference Series</i> , 2014, 561, 012004.	0.4	8

#	ARTICLE	IF	CITATIONS
37	Gyro-induced acceleration of magnetic reconnection. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	36
38	Fast gyrofluid reconnection in high temperature plasmas. <i>Journal of Physics: Conference Series</i> , 2012, 401, 012005.	0.4	2
39	Magnetic island evolution under the action of electron cyclotron current drive. <i>Journal of Physics: Conference Series</i> , 2012, 401, 012002.	0.4	0
40	Numerical investigation of a compressible gyrofluid model for collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	20
41	Magnetic reconnection controlled by external current drive. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 054012.	2.1	8
42	Nonlinear and Diamagnetic Effects in a Neoclassical Model of Magnetic Reconnection. , 2011, , .		2
43	Two-dimensional effects in the problem of tearing modes control by electron cyclotron current drive. <i>Nuclear Fusion</i> , 2010, 50, 125002.	3.5	18
44	Nonlinear response of a neoclassical four-field magnetic reconnection model to localized current drive. <i>Physics of Plasmas</i> , 2010, 17, 052509.	1.9	15