

Cristina Manuel

List of Publications by Year in descending order

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74
papers

2,442
citations

218677

26
h-index

197818

49
g-index

75
all docs

75
docs citations

75
times ranked

2339
citing authors

#	ARTICLE	IF	CITATIONS
1	Heavy-ion collisions at the LHC—Last call for predictions. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 054001.	3.6	255
2	Magnetic Color-Flavor Locking Phase in High-Density QCD. Physical Review Letters, 2005, 95, 152002.	7.8	142
3	Classical transport theory and hard thermal loops in the quark-gluon plasma. Physical Review D, 1994, 50, 4209-4218.	4.7	133
4	Color-superconducting gap in the presence of a magnetic field. Nuclear Physics B, 2006, 747, 88-112.	2.5	112
5	Chiral transport equation from the quantum Dirac Hamiltonian and the on-shell effective field theory. Physical Review D, 2014, 90, .	4.7	109
6	Semi-classical transport theory for non-Abelian plasmas. Physics Reports, 2002, 364, 451-539.	25.6	105
7	Deriving the hard thermal loops of QCD from classical transport theory. Physical Review Letters, 1994, 72, 3461-3463.	7.8	102
8	Kinetic theory of chiral relativistic plasmas and energy density of their gauge collective excitations. Physical Review D, 2014, 89, .	4.7	80
9	Hard dense loops in a cold non-Abelian plasma. Physical Review D, 1996, 53, 5866-5873.	4.7	73
10	Mean Field Dynamics in Non-Abelian Plasmas from Classical Transport Theory. Physical Review Letters, 1999, 82, 4981-4984.	7.8	73
11	Dynamical evolution of the chiral magnetic effect: Applications to the quark-gluon plasma. Physical Review D, 2015, 92, .	4.7	72
12	Masses of the Goldstone modes in the CFL phase of QCD at finite density. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 479, 190-200.	4.1	71
13	Perturbative renormalization in quantum mechanics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 328, 113-118.	4.1	66
14	Shear viscosity in a CFL quark star. Journal of High Energy Physics, 2005, 2005, 076-076.	4.7	66
15	Effective transport equations for non-Abelian plasmas. Nuclear Physics B, 1999, 562, 237-274.	2.5	59
16	Contact interactions of anyons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 268, 222-226.	4.1	58
17	Consistent relativistic chiral kinetic theory: A derivation from on-shell effective field theory. Physical Review D, 2018, 98, .	4.7	44
18	Consequences of supergravity with gauged $U(1)_R$ symmetry. Nuclear Physics B, 1996, 461, 50-70.	2.5	43

#	ARTICLE	IF	CITATIONS
19	Dispersion relations in ultradegenerate relativistic plasmas. <i>Physical Review D</i> , 2000, 62, .	4.7	43
20	Damping rate of quasiparticles in degenerate ultrarelativistic plasmas. <i>Physical Review D</i> , 1997, 55, 3215-3218.	4.7	39
21	Bulk viscosity in a cold CFL superfluid. <i>Journal of Cosmology and Astroparticle Physics</i> , 2007, 2007, 001-001.	5.4	37
22	Photon self-energy in a color superconductor. <i>Physical Review D</i> , 2001, 64, .	4.7	35
23	Systematic Differential Renormalization to All Orders. <i>Annals of Physics</i> , 1994, 231, 149-173.	2.8	32
24	Chromohydrodynamic approach to the unstable quark-gluon plasma. <i>Physical Review D</i> , 2006, 74, .	4.7	32
25	Bulk viscosities for cold Fermi superfluids close to the unitary limit. <i>Physical Review A</i> , 2009, 79, .	2.5	31
26	Mutual Friction in a Cold Color-Flavor-Locked Superfluid and r -Mode Instabilities in Compact Stars. <i>Physical Review Letters</i> , 2008, 101, 241101.	7.8	27
27	Lifetime effects in color superconductivity at weak coupling. <i>Physical Review D</i> , 2000, 62, .	4.7	26
28	Colour superconductivity in a strong magnetic field. <i>Journal of Physics A</i> , 2006, 39, 6349-6355.	1.6	22
29	Chromohydrodynamical instabilities induced by relativistic jets. <i>Physical Review D</i> , 2007, 76, .	4.7	22
30	Chiral kinetic theory from the on-shell effective field theory: Derivation of collision terms. <i>Physical Review D</i> , 2020, 102, .	4.7	22
31	Bulk viscosities of a cold relativistic superfluid: Color-flavor locked quark matter. <i>Physical Review D</i> , 2010, 81, .	4.7	21
32	On-shell effective field theory: A systematic tool to compute power corrections to the hard thermal loops. <i>Physical Review D</i> , 2016, 94, .	4.7	21
33	Power corrections to the HTL effective Lagrangian of QED. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 780, 308-312.	4.1	21
34	Local equilibrium of the quark-gluon plasma. <i>Physical Review D</i> , 2003, 68, .	4.7	19
35	Whitening of the quark-gluon plasma. <i>Physical Review D</i> , 2004, 70, .	4.7	19
36	Transport theory for cold relativistic superfluids from an analogue model of gravity. <i>Physical Review D</i> , 2008, 77, .	4.7	18

#	ARTICLE	IF	CITATIONS
37	Shear viscosity due to phonons in superfluid neutron stars. Physical Review D, 2011, 84, .	4.7	18
38	Fluctuations from dissipation in a hot non-Abelian plasma. Physical Review D, 2000, 61, .	4.7	17
39	Sum rules in the CFL phase of QCD at finite density. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 501, 200-208.	4.1	17
40	Contact interactions and Dirac anyons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 301, 72-76.	4.1	15
41	Jet-induced gauge field instabilities in the quark-gluon plasma: A kinetic theory approach. Physical Review D, 2008, 77, .	4.7	15
42	Effective field theory and dispersion law of the phonons of a nonrelativistic superfluid. Physical Review A, 2010, 82, .	2.5	15
43	Phonon contribution to the shear viscosity of a superfluid Fermi gas in the unitarity limit. Annals of Physics, 2013, 336, 12-35.	2.8	13
44	Chiral kinetic theory with small mass corrections and quantum coherent states. Physical Review D, 2021, 103, .	4.7	12
45	DIFFERENTIAL RENORMALIZATION OF A YUKAWA MODEL WITH $\hat{5}$. International Journal of Modern Physics A, 1993, 08, 3223-3234.	1.5	10
46	Remark on non-Abelian classical kinetic theory. Physical Review D, 2002, 65, .	4.7	10
47	Shear viscosity and the r -mode instability window in superfluid neutron stars. Physical Review D, 2013, 88, .	4.7	10
48	Thermal conductivity due to phonons in the core of superfluid neutron stars. Physical Review C, 2014, 90, .	2.9	10
49	Illuminating Dense Quark Matter. Physical Review Letters, 2002, 88, 042003.	7.8	9
50	Measuring chiral imbalance with collisional energy loss. Physical Review D, 2021, 103, .	4.7	9
51	Hard thermal loops and chiral Lagrangians. Physical Review D, 1998, 57, 2871-2878.	4.7	8
52	Transport Theory for a Two-Flavor Color Superconductor. Physical Review Letters, 2001, 87, 052002.	7.8	8
53	Strongly and weakly unstable anisotropic quark-gluon plasma. Physical Review D, 2005, 72, .	4.7	8
54	Bulk viscosity coefficients due to phonons and kaons in superfluid color-flavor locked quark matter. Physical Review D, 2011, 84, .	4.7	8

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55	Bulk viscosity coefficients due to phonons in superfluid neutron stars. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 003-003.	5.4	8
56	Damping rate of a fermion in ultradegenerate chiral matter. Physical Review D, 2019, 99, .	4.7	8
57	Power corrections and gradient expansion in QED transport theory. Physical Review D, 2021, 104, .	4.7	6
58	QCD effective actions from the solutions of the transport equations. Physical Review D, 2003, 67, .	4.7	5
59	r-Mode Oscillations and Rocket Effect in Rotating Superfluid Neutron Stars. I. Formalism. Astrophysics, 2013, 56, 88-103.	0.5	5
60	Thermal gauge boson masses of the electroweak theory in the broken phase. Physical Review D, 1998, 58, .	4.7	4
61	Electromagnetic mass difference of pions at low temperature. Physical Review D, 1999, 59, .	4.7	4
62	Color superconductivity in a strong external magnetic field. Nuclear Physics A, 2007, 785, 114-117.	1.5	4
63	Jet energy loss in the quark-gluon plasma by stream instabilities. Physical Review D, 2010, 81, .	4.7	4
64	OSEFT or how to go beyond hard thermal loops. EPJ Web of Conferences, 2017, 137, 07014.	0.3	4
65	Transport Properties of Superfluid Phonons in Neutron Stars. Universe, 2021, 7, 59.	2.5	4
66	Magnetic Screening at Finite Temperature. Annals of Physics, 1998, 263, 238-254.	2.8	3
67	Transport coefficients in superfluid neutron stars. AIP Conference Proceedings, 2016, , .	0.4	3
68	r-Mode Oscillations and Rocket Effect in Rotating Superfluid Neutron Stars. II. Numerical Results. Astrophysics, 2013, 56, 104-120.	0.5	2
69	Mass corrections to the hard thermal or dense loops. Physical Review D, 2021, 104, .	4.7	2
70	Jet-Induced Gauge Field Instabilities in the Quark-Gluon Plasma. Progress of Theoretical Physics Supplement, 2008, 174, 122-128.	0.1	1
71	Dissipative processes in superfluid quark matter. , 2010, , .		1
72	Dissipative processes in superfluid neutron stars. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
73	QCD EFFECTIVE ACTIONS AT HIGH TEMPERATURE AND THE QUASIPARTICLE PICTURE. , 2003, , .		0
74	TRANSPORT COEFFICIENTS IN COLOR SUPERCONDUCTING QUARK MATTER. , 2005, , .		0