

Andrea Tomadin

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

3,604
citations

230014

27
h-index

263392

45
g-index

48
all docs

48
docs citations

48
times ranked

5119
citing authors

#	ARTICLE	IF	CITATIONS
1	Negative local resistance caused by viscous electron backflow in graphene. <i>Science</i> , 2016, 351, 1055-1058.	6.0	516
2	Ultrafast collinear scattering and carrier multiplication in graphene. <i>Nature Communications</i> , 2013, 4, 1987.	5.8	446
3	Dynamical Phase Transitions and Instabilities in Open Atomic Many-Body Systems. <i>Physical Review Letters</i> , 2010, 105, 015702.	2.9	260
4	Broadband, electrically tunable third-harmonic generation in graphene. <i>Nature Nanotechnology</i> , 2018, 13, 583-588.	15.6	211
5	Nonlocal transport and the hydrodynamic shear viscosity in graphene. <i>Physical Review B</i> , 2015, 92, .	1.1	198
6	Nonequilibrium dynamics of photoexcited electrons in graphene: Collinear scattering, Auger processes, and the impact of screening. <i>Physical Review B</i> , 2013, 88, .	1.1	164
7	High-yield production of 2D crystals by wet-jet milling. <i>Materials Horizons</i> , 2018, 5, 890-904.	6.4	139
8	Waveguide-Integrated, Plasmonic Enhanced Graphene Photodetectors. <i>Nano Letters</i> , 2019, 19, 7632-7644.	4.5	113
9	Many-body phenomena in QED-cavity arrays [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, A130.	0.9	112
10	Signatures of the superfluid-insulator phase transition in laser-driven dissipative nonlinear cavity arrays. <i>Physical Review A</i> , 2010, 81, .	1.0	111
11	Density functional theory of graphene sheets. <i>Physical Review B</i> , 2008, 78, .	1.1	105
12	Electron-hole puddles in the absence of charged impurities. <i>Physical Review B</i> , 2012, 85, .	1.1	103
13	The ultrafast dynamics and conductivity of photoexcited graphene at different Fermi energies. <i>Science Advances</i> , 2018, 4, eaar5313.	4.7	95
14	Electron density distribution and screening in rippled graphene sheets. <i>Physical Review B</i> , 2010, 81, .	1.1	88
15	Theory of the plasma-wave photoresponse of a gated graphene sheet. <i>Physical Review B</i> , 2013, 88, .	1.1	85
16	Reservoir engineering and dynamical phase transitions in optomechanical arrays. <i>Physical Review A</i> , 2012, 86, .	1.0	81
17	Nonequilibrium phase diagram of a driven and dissipative many-body system. <i>Physical Review A</i> , 2011, 83, .	1.0	80
18	Corbino Disk Viscometer for 2D Quantum Electron Liquids. <i>Physical Review Letters</i> , 2014, 113, 235901.	2.9	78

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19	Quantum transport in Sierpinski carpets. <i>Physical Review B</i> , 2016, 93, .	1.1	68
20	Current-induced birefringent absorption and non-reciprocal plasmons in graphene. <i>2D Materials</i> , 2016, 3, 015011.	2.0	46
21	Photon condensation in circuit quantum electrodynamics by engineered dissipation. <i>New Journal of Physics</i> , 2012, 14, 055005.	1.2	45
22	Resonant tunneling of Bose-Einstein condensates in optical lattices. <i>New Journal of Physics</i> , 2008, 10, 053038.	1.2	38
23	Many-Body Interband Tunneling as a Witness of Complex Dynamics in the Bose-Hubbard Model. <i>Physical Review Letters</i> , 2007, 98, 130402.	2.9	35
24	Multiband Plasmonic Sierpinski Carpet Fractal Antennas. <i>ACS Photonics</i> , 2018, 5, 2418-2425.	3.2	34
25	Nonlinear Light Mixing by Graphene Plasmons. <i>Nano Letters</i> , 2018, 18, 282-287.	4.5	32
26	Photocurrent-based detection of terahertz radiation in graphene. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	29
27	Optical conductivity of a quantum electron gas in a Sierpinski carpet. <i>Physical Review B</i> , 2017, 96, .	1.1	29
28	Hot Electrons Modulation of Third-Harmonic Generation in Graphene. <i>ACS Photonics</i> , 2019, 6, 2841-2849.	3.2	29
29	Many-body Landau-Zener tunneling in the Bose-Hubbard model. <i>Physical Review A</i> , 2008, 77, .	1.0	26
30	Generation and morphing of plasmons in graphene superlattices. <i>Physical Review B</i> , 2014, 90, .	1.1	24
31	Accessing Phonon Polaritons in Hyperbolic Crystals by Angle-Resolved Photoemission Spectroscopy. <i>Physical Review Letters</i> , 2015, 115, 087401.	2.9	24
32	Gate-Tunable Spatial Modulation of Localized Plasmon Resonances. <i>Nano Letters</i> , 2016, 16, 5688-5693.	4.5	23
33	Graphene Plasmonic Fractal Metamaterials for Broadband Photodetectors. <i>Scientific Reports</i> , 2020, 10, 6882.	1.6	22
34	Resonant tunneling and the quasiparticle lifetime in graphene/boron nitride/graphene heterostructures. <i>Physical Review B</i> , 2016, 93, .	1.1	17
35	Electrical plasmon detection in graphene waveguides. <i>Physical Review B</i> , 2015, 91, .	1.1	16
36	Nonequilibrium pairing instability in ultracold Fermi gases with population imbalance. <i>Physical Review A</i> , 2008, 77, .	1.0	15

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37	Nonlocal Spin Transport as a Probe of Viscous Magnon Fluids. <i>Physical Review Letters</i> , 2019, 123, 117203.	2.9	14
38	Electrically Tunable Nonequilibrium Optical Response of Graphene. <i>ACS Nano</i> , 2022, 16, 3613-3624.	7.3	13
39	Multifractal fluctuations in the survival probability of an open quantum system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 376, 266-274.	1.2	9
40	Electrical plasmon injection in double-layer graphene heterostructures. <i>Physical Review B</i> , 2019, 100, .	1.1	8
41	Can quantum fractal fluctuations be observed in an atom-optics kicked rotor experiment?. <i>Journal of Physics A</i> , 2006, 39, 2477-2491.	1.6	6
42	Plasmons in realistic graphene/hexagonal boron nitride moiré patterns. <i>Physical Review B</i> , 2019, 99, .	1.1	6
43	Tunable broadband light emission from graphene. <i>2D Materials</i> , 2021, 8, 035026.	2.0	5
44	Theory of the effective Seebeck coefficient for photoexcited two-dimensional materials: Graphene. <i>Physical Review B</i> , 2021, 104, .	1.1	5
45	Microscopic theory of plasmon-enabled resonant terahertz detection in bilayer graphene. <i>Physical Review B</i> , 2021, 103, .	1.1	1
46	Hot Electrons Modulation of Third Harmonic Generation in Graphene. , 2019, , .		0
47	Nonlinear Hall effect as a local probe of plasmonic magnetic hot spots. <i>Physical Review B</i> , 2021, 104, .	1.1	0