

Andrea Tomadin

List of Publications by Year in descending order

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47
papers

3,604
citations

201674

27
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233421

45
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48
all docs

48
docs citations

48
times ranked

4448
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrically Tunable Nonequilibrium Optical Response of Graphene. ACS Nano, 2022, 16, 3613-3624.	14.6	13
2	Microscopic theory of plasmon-enabled resonant terahertz detection in bilayer graphene. Physical Review B, 2021, 103, .	3.2	1
3	Tunable broadband light emission from graphene. 2D Materials, 2021, 8, 035026.	4.4	5
4	Nonlinear Hall effect as a local probe of plasmonic magnetic hot spots. Physical Review B, 2021, 104, .	3.2	0
5	Theory of the effective Seebeck coefficient for photoexcited two-dimensional materials: Graphene. Physical Review B, 2021, 104, .	3.2	5
6	Graphene Plasmonic Fractal Metamaterials for Broadband Photodetectors. Scientific Reports, 2020, 10, 6882.	3.3	22
7	Electrical plasmon injection in double-layer graphene heterostructures. Physical Review B, 2019, 100, .	3.2	8
8	Hot Electrons Modulation of Third-Harmonic Generation in Graphene. ACS Photonics, 2019, 6, 2841-2849.	6.6	29
9	Hot Electrons Modulation of Third Harmonic Generation in Graphene. , 2019, , .		0
10	Waveguide-Integrated, Plasmonic Enhanced Graphene Photodetectors. Nano Letters, 2019, 19, 7632-7644.	9.1	113
11	Nonlocal Spin Transport as a Probe of Viscous Magnon Fluids. Physical Review Letters, 2019, 123, 117203.	7.8	14
12	Plasmons in realistic graphene/hexagonal boron nitride moiré patterns. Physical Review B, 2019, 99, .	3.2	6
13	Multiband Plasmonic Sierpinski Carpet Fractal Antennas. ACS Photonics, 2018, 5, 2418-2425.	6.6	34
14	Nonlinear Light Mixing by Graphene Plasmons. Nano Letters, 2018, 18, 282-287.	9.1	32
15	Broadband, electrically tunable third-harmonic generation in graphene. Nature Nanotechnology, 2018, 13, 583-588.	31.5	211
16	High-yield production of 2D crystals by wet-jet milling. Materials Horizons, 2018, 5, 890-904.	12.2	139
17	The ultrafast dynamics and conductivity of photoexcited graphene at different Fermi energies. Science Advances, 2018, 4, eaar5313.	10.3	95
18	Optical conductivity of a quantum electron gas in a Sierpinski carpet. Physical Review B, 2017, 96, .	3.2	29

#	ARTICLE	IF	CITATIONS
19	Gate-Tunable Spatial Modulation of Localized Plasmon Resonances. Nano Letters, 2016, 16, 5688-5693.	9.1	23
20	Quantum transport in Sierpinski carpets. Physical Review B, 2016, 93, .	3.2	68
21	Resonant tunneling and the quasiparticle lifetime in graphene/boron nitride/graphene heterostructures. Physical Review B, 2016, 93, .	3.2	17
22	Negative local resistance caused by viscous electron backflow in graphene. Science, 2016, 351, 1055-1058.	12.6	516
23	Current-induced birefringent absorption and non-reciprocal plasmons in graphene. 2D Materials, 2016, 3, 015011.	4.4	46
24	Nonlocal transport and the hydrodynamic shear viscosity in graphene. Physical Review B, 2015, 92, .	3.2	198
25	Accessing Phonon Polaritons in Hyperbolic Crystals by Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2015, 115, 087401.	7.8	24
26	Electrical plasmon detection in graphene waveguides. Physical Review B, 2015, 91, .	3.2	16
27	Corbino Disk Viscometer for 2D Quantum Electron Liquids. Physical Review Letters, 2014, 113, 235901.	7.8	78
28	Generation and morphing of plasmons in graphene superlattices. Physical Review B, 2014, 90, .	3.2	24
29	Nonequilibrium dynamics of photoexcited electrons in graphene: Collinear scattering, Auger processes, and the impact of screening. Physical Review B, 2013, 88, .	3.2	164
30	Photocurrent-based detection of terahertz radiation in graphene. Applied Physics Letters, 2013, 103, .	3.3	29
31	Ultrafast collinear scattering and carrier multiplication in graphene. Nature Communications, 2013, 4, 1987.	12.8	446
32	Theory of the plasma-wave photoresponse of a gated graphene sheet. Physical Review B, 2013, 88, .	3.2	85
33	Photon condensation in circuit quantum electrodynamics by engineered dissipation. New Journal of Physics, 2012, 14, 055005.	2.9	45
34	Reservoir engineering and dynamical phase transitions in optomechanical arrays. Physical Review A, 2012, 86, .	2.5	81
35	Electron-hole puddles in the absence of charged impurities. Physical Review B, 2012, 85, .	3.2	103
36	Nonequilibrium phase diagram of a driven and dissipative many-body system. Physical Review A, 2011, 83, .	2.5	80

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37	Electron density distribution and screening in rippled graphene sheets. <i>Physical Review B</i> , 2010, 81, .	3.2	88
38	Signatures of the superfluid-insulator phase transition in laser-driven dissipative nonlinear cavity arrays. <i>Physical Review A</i> , 2010, 81, .	2.5	111
39	Dynamical Phase Transitions and Instabilities in Open Atomic Many-Body Systems. <i>Physical Review Letters</i> , 2010, 105, 015702.	7.8	260
40	Many-body phenomena in QED-cavity arrays [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, A130.	2.1	112
41	Density functional theory of graphene sheets. <i>Physical Review B</i> , 2008, 78, .	3.2	105
42	Resonant tunneling of Bose-Einstein condensates in optical lattices. <i>New Journal of Physics</i> , 2008, 10, 053038.	2.9	38
43	Many-body Landau-Zener tunneling in the Bose-Hubbard model. <i>Physical Review A</i> , 2008, 77, .	2.5	26
44	Nonequilibrium pairing instability in ultracold Fermi gases with population imbalance. <i>Physical Review A</i> , 2008, 77, .	2.5	15
45	Many-Body Interband Tunneling as a Witness of Complex Dynamics in the Bose-Hubbard Model. <i>Physical Review Letters</i> , 2007, 98, 130402.	7.8	35
46	Multifractal fluctuations in the survival probability of an open quantum system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 376, 266-274.	2.6	9
47	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