

# Mauro Antezza

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84

papers

2,453

citations

26

h-index

47

g-index

91

ext. papers

3,077

ext. citations

3.6

avg, IF

5.61

L-index

#	Paper	IF	Citations
84	Measurement of the temperature dependence of the Casimir-Polder force. <i>Physical Review Letters</i> , <b>2007</b> , 98, 063201	7.4	301
83	New asymptotic behavior of the surface-atom force out of thermal equilibrium. <i>Physical Review Letters</i> , <b>2005</b> , 95, 113202	7.4	128
82	Effect of the Casimir-Polder force on the collective oscillations of a trapped Bose-Einstein condensate. <i>Physical Review A</i> , <b>2004</b> , 70,	2.6	126
81	Scattering-matrix approach to Casimir-Lifshitz force and heat transfer out of thermal equilibrium between arbitrary bodies. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	114
80	Casimir-Lifshitz force out of thermal equilibrium. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	111
79	Reconciliation of quantum local master equations with thermodynamics. <i>New Journal of Physics</i> , <b>2018</b> , 20, 113024	2.9	105
78	Near-field heat transfer between graphene/hBN multilayers. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	95
77	Three-body amplification of photon heat tunneling. <i>Physical Review Letters</i> , <b>2012</b> , 109, 244302	7.4	88
76	Casimir-Lifshitz force out of thermal equilibrium and heat transfer between arbitrary bodies. <i>Europhysics Letters</i> , <b>2011</b> , 95, 61002	1.6	72
75	Three-body radiative heat transfer and Casimir-Lifshitz force out of thermal equilibrium for arbitrary bodies. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	66
74	Dark solitons in a superfluid Fermi gas. <i>Physical Review A</i> , <b>2007</b> , 76,	2.6	64
73	Casimir-lifshitz force out of thermal equilibrium and asymptotic nonadditivity. <i>Physical Review Letters</i> , <b>2006</b> , 97, 223203	7.4	54
72	Magnetoplasmonic manipulation of nanoscale thermal radiation using twisted graphene gratings. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 150, 119305	4.9	43
71	Radiative heat transfer and nonequilibrium Casimir-Lifshitz force in many-body systems with planar geometry. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	42
70	Quantum thermal machines with single nonequilibrium environments. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	41
69	Hyperbolic waveguide for long-distance transport of near-field heat flux. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	40
68	Creation and protection of entanglement in systems out of thermal equilibrium. <i>New Journal of Physics</i> , <b>2013</b> , 15, 113052	2.9	35

67	Optical properties of atomic Mott insulators: From slow light to dynamical Casimir effects. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	34
66	Fano-Hopfield model and photonic band gaps for an arbitrary atomic lattice. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	33
65	Graphene-based amplification and tuning of near-field radiative heat transfer between dissimilar polar materials. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	32
64	Radiation induced force between two planar waveguides. <i>European Physical Journal D</i> , <b>2008</b> , 46, 157-164.	4.3	32
63	Radiative heat transfer between metallic gratings using Fourier modal method with adaptive spatial resolution. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	30
62	Many-body heat radiation and heat transfer in the presence of a nonabsorbing background medium. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	30
61	Fluctuation-induced forces on an atom near a photonic topological material. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	29
60	Active control of near-field radiative heat transfer by a graphene-gratings coating-twisting method. <i>Optics Letters</i> , <b>2020</b> , 45, 2914-2917	3	29
59	Optomechanical Rydberg-atom excitation via dynamic Casimir-Polder coupling. <i>Physical Review Letters</i> , <b>2014</b> , 113, 023601	7.4	26
58	Steady entanglement out of thermal equilibrium. <i>Europhysics Letters</i> , <b>2013</b> , 104, 10006	1.6	26
57	Quantum thermal machine acting on a many-body quantum system: Role of correlations in thermodynamic tasks. <i>Physical Review E</i> , <b>2016</b> , 93, 022134	2.4	25
56	Spectrum of light in a quantum fluctuating periodic structure. <i>Physical Review Letters</i> , <b>2009</b> , 103, 123903.	7.4	25
55	Surface-atom force out of thermal equilibrium and its effect on ultra-cold atoms. <i>Journal of Physics A</i> , <b>2006</b> , 39, 6117-6126		24
54	Graphene-based thermal repeater. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 263101	3.4	24
53	Otto engine beyond its standard quantum limit. <i>Physical Review E</i> , <b>2016</b> , 93, 022122	2.4	23
52	Unidirectional and diffractionless surface plasmon polaritons on three-dimensional nonreciprocal plasmonic platforms. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	22
51	Photonic band gap in an imperfect atomic diamond lattice: Penetration depth and effects of finite size and vacancies. <i>Physical Review A</i> , <b>2013</b> , 88,	2.6	22
50	Robust entanglement with three-dimensional nonreciprocal photonic topological insulators. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	21

49	Metasurface-mediated anisotropic radiative heat transfer between nanoparticles. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	19
48	Quantum systems in a stationary environment out of thermal equilibrium. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	19
47	A self-contained quantum harmonic engine. <i>Europhysics Letters</i> , <b>2017</b> , 120, 60006	1.6	18
46	Casimir interaction between a sphere and a grating. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	18
45	Non-Reciprocal, Robust Surface Plasmon Polaritons on Gyrotropic Interfaces. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 3718-3729	4.9	16
44	Casimir-Lifshitz force out of thermal equilibrium between dielectric gratings. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	16
43	Spontaneous lateral atomic recoil force close to a photonic topological material. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	16
42	Thermally activated nonlocal amplification in quantum energy transport. <i>Europhysics Letters</i> , <b>2015</b> , 110, 40002	1.6	15
41	Strong Thermal and Electrostatic Manipulation of the Casimir Force in Graphene Multilayers. <i>Physical Review Letters</i> , <b>2017</b> , 118, 126101	7.4	14
40	Nonequilibrium dissipation-driven steady many-body entanglement. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	14
39	Giant resonant radiative heat transfer between nanoparticles. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	14
38	Dynamics of an elementary quantum system in environments out of thermal equilibrium. <i>Europhysics Letters</i> , <b>2012</b> , 100, 20006	1.6	14
37	Fluctuation-Induced Forces Between Atoms and Surfaces: The Casimir-Bolder Interaction. <i>Lecture Notes in Physics</i> , <b>2011</b> , 345-391	0.8	14
36	Giant Interatomic Energy-Transport Amplification with Nonreciprocal Photonic Topological Insulators. <i>Physical Review Letters</i> , <b>2017</b> , 119, 173901	7.4	13
35	Radiative heat transfer between metallic nanoparticle clusters in both near field and far field. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	13
34	Quantitative study of two- and three-dimensional strong localization of matter waves by atomic scatterers. <i>Physical Review A</i> , <b>2010</b> , 82,	2.6	13
33	Casimir-Lifshitz force for nonreciprocal media and applications to photonic topological insulators. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	12
32	Quantum machines powered by correlated baths. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	12

31	Quantum metamaterials: a brave new world. <i>SPIE Newsroom</i> ,		11
30	Continuously variable emission for mechanical deformation induced radiative cooling. <i>Communications Materials</i> , <b>2020</b> , 1,	6	11
29	Giant Casimir Torque between Rotated Gratings and the $\mu_0$ Anomaly. <i>Physical Review Letters</i> , <b>2020</b> , 124, 013903	7.4	10
28	Breathing modes of a fast rotating Fermi gas. <i>Physical Review A</i> , <b>2007</b> , 75,	2.6	10
27	Radiative heat transfer and radiative thermal energy for two-dimensional nanoparticle ensembles. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	9
26	Optical torque on a two-level system near a strongly nonreciprocal medium. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	9
25	Giant thermal magnetoresistance driven by graphene magnetoplasmon. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 113104	3.4	8
24	Excitation injector in an atomic chain: Long-range transport and efficiency amplification. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	7
23	Light-induced optomechanical forces in graphene waveguides. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	7
22	Near-field radiative heat transfer between twisted nanoparticle gratings. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 053901	3.4	7
21	Polariton topological transition effects on radiative heat transfer. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	7
20	Radiative thermal switch driven by anisotropic black phosphorus plasmons. <i>Optics Express</i> , <b>2020</b> , 28, 26933-26934	3.3	7
19	Dual-band nonreciprocal thermal radiation by coupling optical Tamm states in magnetophotonic multilayers. <i>International Journal of Thermal Sciences</i> , <b>2022</b> , 175, 107457	4.1	6
18	Strong geometry dependence of the Casimir force between interpenetrated rectangular gratings. <i>Nature Communications</i> , <b>2021</b> , 12, 600	17.4	6
17	Casimir-Polder force and torque for anisotropic molecules close to conducting planes and their effect on CO <sub>2</sub> . <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	5
16	Disorder-induced phase transition in Dirac systems beyond the linear approximation. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	5
15	Many-body effective thermal conductivity in phase-change nanoparticle chains due to near-field radiative heat transfer. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 166, 120793	4.9	5
14	Ultrahigh-rectification near-field radiative thermal diode using infrared-transparent film backsided phase-transition metasurface. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 123101	3.4	5

13	Magnetoplasmon-surface phonon polaritons coupling effects in radiative heat transfer. <i>Optics Letters</i> , <b>2020</b> , 45, 5148-5151	3	4
12	Hybrid thermal Yagi-Uda nanoantennas for directional and narrow band long-wavelength IR radiation sources. <i>Optics Express</i> , <b>2020</b> , 28, 19334-19348	3.3	4
11	Inducing and controlling rotation on small objects using photonic topological materials. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	4
10	Distributed thermal tasks on many-body systems through a single quantum machine. <i>Europhysics Letters</i> , <b>2015</b> , 112, 40004	1.6	3
9	Matter waves in two-dimensional arbitrary atomic crystals. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	3
8	Matter waves in atomic artificial graphene. <i>Europhysics Letters</i> , <b>2014</b> , 107, 30006	1.6	3
7	Dynamical polarizability of graphene with spatial dispersion. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	3
6	Magnetic field-induced emissivity tuning of InSb-based metamaterials in the terahertz frequency regime. <i>Optical Materials Express</i> , <b>2021</b> , 11, 3141	2.6	3
5	Non-Markovian transient Casimir-Polder force and population dynamics on excited- and ground-state atoms: Weak- and strong-coupling regimes in generally nonreciprocal environments. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	2
4	Dissipative Topological Phase Transition with Strong System-Environment Coupling.. <i>Physical Review Letters</i> , <b>2021</b> , 127, 250402	7.4	2
3	Coupling between subwavelength nano-slit lattice modes and metal-insulator-graphene cavity modes: a semi-analytical model. <i>OSA Continuum</i> , <b>2019</b> , 2, 1296	1.4	2
2	Hybridization of topological surface states with a flat band. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 165501	1.8	0
1	Inverse design of a 1D dielectric metasurface by topology optimization: fluctuations-trend analysis assisted by a diamond-square algorithm. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2020</b> , 37, 3721	1.7	