

Philippe Ben-Abdallah

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

4,889
citations

87888

38
h-index

91884

69
g-index

78
all docs

78
docs citations

78
times ranked

1590
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-based enhancement of near-field radiative-heat-transfer rectification. Applied Physics Letters, 2022, 120, .	3.3	9
2	Radiative cooling induced by time-symmetry breaking in periodically driven systems. Physical Review B, 2021, 103, .	3.2	6
3	Near-field radiative heat transfer in many-body systems. Reviews of Modern Physics, 2021, 93, .	45.6	143
4	Radiative thermal rectification in many-body systems. Physical Review B, 2021, 104, .	3.2	23
5	Smart thermal management with near-field thermal radiation [invited]. Optics Express, 2021, 29, 24816.	3.4	18
6	Strong slowing down of the thermalization of solids interacting in the extreme near field. Physical Review B, 2021, 104, .	3.2	7
7	Graphene-based autonomous pyroelectric system for near-field energy conversion. Scientific Reports, 2021, 11, 19489.	3.3	7
8	Mechanical relations between conductive and radiative heat transfer. Physical Review B, 2020, 102, .	3.2	2
9	Conduction-Radiation Coupling between Two Closely Separated Solids. Physical Review Letters, 2020, 125, 224302.	7.8	9
10	Anomalous photon thermal Hall effect. Physical Review B, 2020, 101, .	3.2	33
11	Saturation of radiative heat transfer due to many-body thermalization. Scientific Reports, 2020, 10, 8938.	3.3	6
12	Scalable radiative thermal logic gates based on nanoparticle networks. Scientific Reports, 2020, 10, 3596.	3.3	23
13	Many-body near-field radiative heat pumping. Physical Review B, 2020, 101, .	3.2	14
14	Thermomechanical bistability of phase-transition oscillators driven by near-field heat exchange. Physical Review B, 2020, 101, .	3.2	3
15	Harvesting the Electromagnetic Energy Confined Close to a Hot Body. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2019, 74, 689-696.	1.5	7
16	Dynamical Response of a Radiative Thermal Transistor Based on Suspended Insulator-Metal-Transition Membranes. Physical Review Applied, 2019, 11, .	3.8	26
17	Thermal photon drag in many-body systems. Physical Review B, 2019, 99, .	3.2	15
18	Radiative thermal diode driven by nonreciprocal surface waves. Applied Physics Letters, 2019, 114, .	3.3	76

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19	Multitip Near-Field Scanning Thermal Microscopy. <i>Physical Review Letters</i> , 2019, 123, 264301.	7.8	29
20	Magnetothermoplasmonics: from theory to applications. <i>Journal of Photonics for Energy</i> , 2019, 9, 1.	1.3	36
21	Ballistic near-field heat transport in dense many-body systems. <i>Physical Review B</i> , 2018, 97, .	3.2	29
22	Anisotropic Thermal Magnetoresistance for an Active Control of Radiative Heat Transfer. <i>ACS Photonics</i> , 2018, 5, 705-710.	6.6	80
23	Surface-mode-assisted amplification of radiative heat transfer between nanoparticles. <i>Physical Review B</i> , 2018, 97, .	3.2	54
24	Limitations of kinetic theory to describe near-field heat exchanges in many-body systems. <i>Physical Review B</i> , 2018, 98, .	3.2	22
25	Fluctuations of radiative heat exchange between two bodies. <i>Physical Review B</i> , 2018, 97, .	3.2	6
26	A Thermal Diode Based on Nanoscale Thermal Radiation. <i>ACS Nano</i> , 2018, 12, 5774-5779.	14.6	167
27	Radiative Heat Shuttling. <i>Physical Review Letters</i> , 2018, 121, 023903.	7.8	25
28	Circular heat and momentum flux radiated by magneto-optical nanoparticles. <i>Physical Review B</i> , 2018, 97, .	3.2	41
29	Energy harvesting from lukewarm photons. <i>Nature Nanotechnology</i> , 2018, 13, 772-773.	31.5	2
30	Near-Field Heat Transfer between Multilayer Hyperbolic Metamaterials. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2017, 72, 115-127.	1.5	38
31	Thermal memristor and neuromorphic networks for manipulating heat flow. <i>AIP Advances</i> , 2017, 7, .	1.3	18
32	Thermotronics: Towards Nanocircuits to Manage Radiative Heat Flux. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2017, 72, 151-162.	1.5	22
33	Radiative heat transfer and nonequilibrium Casimir-Lifshitz force in many-body systems with planar geometry. <i>Physical Review B</i> , 2017, 95, .	3.2	59
34	Graphene-based amplification and tuning of near-field radiative heat transfer between dissimilar polar materials. <i>Physical Review B</i> , 2017, 96, .	3.2	44
35	Giant Thermal Magnetoresistance in Plasmonic Structures. <i>Physical Review Letters</i> , 2017, 118, 173902.	7.8	86
36	Towards Boolean operations with thermal photons. <i>Physical Review B</i> , 2016, 94, .	3.2	49

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37	Hyperbolic waveguide for long-distance transport of near-field heat flux. <i>Physical Review B</i> , 2016, 94, .	3.2	55
38	Revisiting super-Planckian thermal emission in the far-field regime. <i>Physical Review B</i> , 2016, 93, .	3.2	33
39	Photon Thermal Hall Effect. <i>Physical Review Letters</i> , 2016, 116, 084301.	7.8	122
40	Heat Engine Driven by Photon Tunneling in Many-Body Systems. <i>Physical Review Applied</i> , 2015, 4, .	3.8	34
41	Fundamental limits for light absorption and scattering induced by cooperative electromagnetic interactions. <i>Physical Review B</i> , 2015, 91, .	3.2	30
42	Blackbody Theory for Hyperbolic Materials. <i>Physical Review Letters</i> , 2015, 115, 174301.	7.8	21
43	Contactless heat flux control with photonic devices. <i>AIP Advances</i> , 2015, 5, .	1.3	63
44	Radiative heat flux predictions in hyperbolic metamaterials. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 158, 17-26.	2.3	25
45	Modulation and amplification of radiative far field heat transfer: Towards a simple radiative thermal transistor. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	66
46	Heat flux splitter for near-field thermal radiation. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	45
47	Microsecond switchable thermal antenna. <i>Journal of Applied Physics</i> , 2014, 116, 034306.	2.5	14
48	Near-Field Thermal Transistor. <i>Physical Review Letters</i> , 2014, 112, 044301.	7.8	406
49	Strong tip-sample coupling in thermal radiation scanning tunneling microscopy. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 136, 1-15.	2.3	46
50	High temperature layered absorber for thermo-solar systems. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 149, 8-15.	2.3	12
51	Radiative Bistability and Thermal Memory. <i>Physical Review Letters</i> , 2014, 113, 074301.	7.8	156
52	Cooperative electromagnetic interactions between nanoparticles for solar energy harvesting. <i>Optics Express</i> , 2014, 22, A577.	3.4	22
53	Graphene-based photovoltaic cells for near-field thermal energy conversion. <i>Scientific Reports</i> , 2013, 3, 1383.	3.3	215
54	Super-Planckian near-field thermal emission with phonon-polaritonic hyperbolic metamaterials. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	156

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55	Heat Superdiffusion in Plasmonic Nanostructure Networks. <i>Physical Review Letters</i> , 2013, 111, 174301.	7.8	73
56	Tuning the electromagnetic local density of states in graphene-covered systems via strong coupling with graphene plasmons. <i>Physical Review B</i> , 2013, 87, .	3.2	56
57	Fluctuation-electrodynamics theory and dynamics of heat transfer in systems of multiple dipoles. <i>Physical Review B</i> , 2013, 88, .	3.2	119
58	On the limits of the effective description of hyperbolic materials in the presence of surface waves. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 105101.	2.2	50
59	Phase-change radiative thermal diode. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	203
60	Three-Body Amplification of Photon Heat Tunneling. <i>Physical Review Letters</i> , 2012, 109, 244302.	7.8	109
61	Hyperbolic Metamaterials as an Analog of a Blackbody in the Near Field. <i>Physical Review Letters</i> , 2012, 109, 104301.	7.8	349
62	Radiative cooling of nanoparticles close to a surface. <i>European Physical Journal B</i> , 2012, 85, 1.	1.5	36
63	Coherent thermal conductance of 1-D photonic crystals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 3462-3465.	2.1	13
64	Many-Body Radiative Heat Transfer Theory. <i>Physical Review Letters</i> , 2011, 107, 114301.	7.8	194
65	Modulation of near-field heat transfer between two gratings. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	146
66	Phonon polaritons enhance near-field thermal transfer across the phase transition of VO_2 . <i>Physical Review B</i> , 2011, 84, .	3.2	123
67	Nanoscale heat flux between nanoporous materials. <i>Optics Express</i> , 2011, 19, A1088.	3.4	169
68	Fundamental limits for noncontact transfers between two bodies. <i>Physical Review B</i> , 2010, 82, .	3.2	101
69	Surface Bloch waves mediated heat transfer between two photonic crystals. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	47
70	Noncontact heat transfer between two metamaterials. <i>Physical Review B</i> , 2010, 81, .	3.2	72
71	Tailoring the local density of states of nonradiative field at the surface of nanolayered materials. <i>Applied Physics Letters</i> , 2009, 94, 153117.	3.3	27
72	Near-field heat transfer mediated by surface wave hybridization between two films. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	85

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73	Heat transport through plasmonic interactions in closely spaced metallic nanoparticle chains. Physical Review B, 2008, 77, .	3.2	62
74	Ab initio design of coherent thermal sources. Journal of Applied Physics, 2007, 102, 114305.	2.5	47
75	Heat transfer through near-field interactions in nanofluids. Applied Physics Letters, 2006, 89, 113117.	3.3	49
76	Nanoscale Radiative Heat Transfer and Its Applications. , 0, , .		3