List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Progress of microscopic thermoelectric effects studied by micro- and nano-thermometric techniques. Frontiers of Physics, 2022, 17, 1.	5.0	5
2	Stacking monolayers at will: A scalable device optimization strategy for two-dimensional semiconductors. Nano Research, 2022, 15, 6620-6627.	10.4	4
3	Non-Planckian infrared emission from GaAs devices with electrons and lattice out-of-thermal-equilibrium. Optics Express, 2021, 29, 1244.	3.4	2
4	Quasiadiabatic electron transport in room temperature nanoelectronic devices induced by hot-phonon bottleneck. Nature Communications, 2021, 12, 4752.	12.8	11
5	Controlling fluctuations in small structures: Hidden information in the noise. Physical Review B, 2021, 104, .	3.2	2
6	Anisotropic Hot-Electron Kinetics Revealed by Terahertz Fluctuation. ACS Photonics, 2021, 8, 2674-2682.	6.6	3
7	Dual-color charge-sensitive infrared phototransistors with dynamic optical gate. Applied Physics Letters, 2021, 119, 103505.	3.3	1
8	Thermal near-field energy density and local density of states in topological one-dimensional Su-Schrieffer-Heeger chains and two-dimensional Su-Schrieffer-Heeger lattices of plasmonic nanoparticles. Physical Review B, 2021, 104, .	3.2	10
9	Hybrid perfect metamaterial absorber for microwave spin rectification applications. Scientific Reports, 2020, 10, 19240.	3.3	8
10	Strong In-Plane Magnetic Field-Induced Reemergent Superconductivity in the van der Waals Heterointerface of NbSe ₂ and CrCl ₃ . ACS Applied Materials & Interfaces, 2020, 12, 49252-49257.	8.0	13
11	Silicon nanomembrane phototransistor flipped with multifunctional sensors toward smart digital dust. Science Advances, 2020, 6, eaaz6511.	10.3	24
12	Ag-Modified 3D Reduced Graphene Oxide Aerogel-Based Sensor with an Embedded Microheater for a Fast Response and High-Sensitive Detection of NO ₂ . ACS Applied Materials & Interfaces, 2020, 12, 25243-25252.	8.0	56
13	Manipulation of the zero-damping conditions and unidirectional invisibility in cavity magnonics. Applied Physics Letters, 2020, 116, .	3.3	14
14	Graphene Wrinkles: Enhanced Peltier Effect in Wrinkled Graphene Constriction by Nanoâ€Bubble Engineering (Small 14/2020). Small, 2020, 16, 2070079.	10.0	1
15	Linear array of charge sensitive infrared phototransistors for long wavelength infrared detection. Applied Physics Letters, 2020, 116, 233501.	3.3	3
16	Enhanced Peltier Effect in Wrinkled Graphene Constriction by Nanoâ€Bubble Engineering. Small, 2020, 16, e1907170.	10.0	19
17	Evidence for ferromagnetic order in the CoSb layer ofLaCoSb2. Physical Review B, 2020, 101, .	3.2	3
18	Ultrathin and Electrically Tunable Metamaterial with Nearly Perfect Absorption in Mid-Infrared. Applied Sciences (Switzerland), 2019, 9, 3358.	2.5	12

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19	Ultrathin Silicon Nanomembrane in a Tubular Geometry for Enhanced Photodetection. Advanced Optical Materials, 2019, 7, 1900823.	7.3	11
20	Simulation of temperature profile for the electron and the lattice systems in laterally structured layered conductors. Europhysics Letters, 2019, 128, 17001.	2.0	4
21	Förster Resonant Energy Transfer Mediated by the Evanescent Fields of Nanophotonic Particles. Journal of Physical Chemistry C, 2019, 123, 29900-29907.	3.1	4
22	A versatile loop-mediated isothermal amplification microchip platform for Streptococcus pneumoniae and Mycoplasma pneumoniae testing at the point of care. Biosensors and Bioelectronics, 2019, 126, 373-380.	10.1	48
23	Developments on Thermometric Techniques in Probing Micro- and Nano-heat. ES Energy & Environments, 2019, , .	1.1	6
24	Imaging of nonlocal hot-electron energy dissipation via shot noise. Science, 2018, 360, 775-778.	12.6	85
25	Scalable Production of Graphene/Semiconducting Single-Wall Carbon Nanotube Film Schottky Broadband Photodiode Array with Enhanced Photoresponse. Applied Sciences (Switzerland), 2018, 8, 2369.	2.5	3
26	Nanothermometry of electrons and phonons. , 2018, , .		0
27	Scanning THz Noise Microscopy of Operating Nano-devices. , 2018, , .		0
28	Discrete Superconducting Phases in FeSe-Derived Superconductors. Physical Review Letters, 2018, 121, 207003.	7.8	49
29	Revisiting the Dipole Model for a Thermal Infrared Near-Field Spectroscope. Physical Review Applied, 2018, 10, .	3.8	13
30	Double-layer heterostructure of graphene/carbon nanotube films for highly efficient broadband photodetector. Applied Physics Letters, 2018, 113, .	3.3	21
31	Deterministic Selfâ€Rolling of Ultrathin Nanocrystalline Diamond Nanomembranes for 3D Tubular/Helical Architecture. Advanced Materials, 2017, 29, 1604572.	21.0	57
32	Diamond Nanomembranes: Deterministic Selfâ€Rolling of Ultrathin Nanocrystalline Diamond Nanomembranes for 3D Tubular/Helical Architecture (Adv. Mater. 13/2017). Advanced Materials, 2017, 29,	21.0	1
33	Plasmonic diabolo cavity enhanced spin pumping. Applied Physics Letters, 2017, 111, .	3.3	5
34	Dramatically Enhanced Spin Dynamo with Plasmonic Diabolo Cavity. Scientific Reports, 2017, 7, 5332.	3.3	5
35	Corrugated plasmonic cavity for enhanced intersubband photodetection. Applied Physics Letters, 2017, 110, 261103.	3.3	0
36	Real-space nano-imaging of hot electron dynamics. , 2017, , .		0

Real-space nano-imaging of hot electron dynamics. , 2017, , . 36

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37	Design of triple-band metamaterial absorbers with refractive index sensitivity at infrared frequencies. Optics Express, 2016, 24, 25742.	3.4	76
38	Highly photoresponsive charge-sensitive infrared phototransistors with a dynamically controlled optical gate. Applied Physics Letters, 2016, 109, .	3.3	6
39	Observation of quasi-two-dimensional Dirac fermions in ZrTe5. NPG Asia Materials, 2016, 8, e325-e325.	7.9	51
40	Widely Tunable Terahertz Phase Modulation with Gate-Controlled Graphene Metasurfaces. Physical Review X, 2015, 5, .	8.9	173
41	Quantum dot single-photon switches of resonant tunneling current for discriminating-photon-number detection. Scientific Reports, 2015, 5, 9389.	3.3	23
42	Hierarchical nanoporous microtubes for high-speed catalytic microengines. NPG Asia Materials, 2014, 6, e94-e94.	7.9	44
43	Electronic-state-controlled reset operation in quantum dot resonant-tunneling single-photon detectors. Applied Physics Letters, 2014, 104, 051113.	3.3	10
44	Plasmon-Matter Interactions in Optoelectronic Metamaterials with Negative Refractive Index. Plasmonics, 2013, 8, 1309-1315.	3.4	5
45	Plasmonic light harvesting for multicolor infrared thermal detection. Optics Express, 2013, 21, 295.	3.4	25
46	Optimization of Optoelectronic Plasmonic Structures. Plasmonics, 2011, 6, 319-325.	3.4	10
47	Metal Hole Arrays as Resonant Photo-Coupler for Charge Sensitive Infrared Phototransistors. IEEE Journal of Quantum Electronics, 2010, 46, 384-390.	1.9	36
48	Selective enhancement of photon emission in a quantum dot coupling with micropillar cavity. , 2010, , .		0
49	Optical metamaterial for polarization control. Physical Review A, 2009, 80, .	2.5	141
50	Manipulate light polarizations by metamaterials: From microwave to optics. , 2008, , .		1
51	Metastable excited states of a closed quantum dot with high sensitivity to infrared photons. Physical Review B, 2007, 75, .	3.2	34
52	Reset Operation of Quantum-Well Infrared Phototransistors. IEEE Transactions on Electron Devices, 2007, 54, 1776-1780.	3.0	38
53	A sensitive double quantum well infrared phototransistor. Journal of Applied Physics, 2006, 100, 044509.	2.5	29
54	Infrared phototransistor using capacitively coupled two-dimensional electron gas layers. Applied Physics Letters, 2005, 86, 172106.	3.3	54

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55	Design of Dual-Frequency Plasmonic Photo-Coupler for Infrared Phototransistors. Plasmonics, O, , 1.	3.4	1