

Yu Guo

List of Publications by Year in Descending Order

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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.

270
papers

23,981
citations

72
h-index

152
g-index

313
ext. papers

30,523
ext. citations

9.9
avg, IF

7.69
L-index

#	Paper	IF	Citations
270	Protecting ice from melting under sunlight via radiative cooling.. <i>Science Advances</i> , 2022 , 8, eabj9756	14.3	9
269	Scaling Challenges in High Power Photonic Crystal Surface-Emitting Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2022 , 1-1	2	1
268	Tunable Frequency Filter Based on Twisted Bilayer Photonic Crystal Slabs. <i>ACS Photonics</i> , 2022 , 9, 800-805	15.3	3
267	Flashing light with nanophotonics.. <i>Science</i> , 2022 , 375, 822-823	33.3	
266	Observation of Weyl exceptional rings in thermal diffusion.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2110018119	11.5	1
265	Nonreciprocal infrared absorption via resonant magneto-optical coupling to InAs.. <i>Science Advances</i> , 2022 , 8, eabm4308	14.3	9
264	Subambient daytime radiative cooling textile based on nanoprocessed silk. <i>Nature Nanotechnology</i> , 2021 ,	28.7	28
263	Topological complex-energy braiding of non-Hermitian bands. <i>Nature</i> , 2021 , 598, 59-64	50.4	11
262	Integrated cooling (i-Cool) textile of heat conduction and sweat transportation for personal perspiration management. <i>Nature Communications</i> , 2021 , 12, 6122	17.4	17
261	Transforming heat transfer with thermal metamaterials and devices. <i>Nature Reviews Materials</i> , 2021 , 6, 488-507	73.3	68
260	Generating arbitrary topological windings of a non-Hermitian band. <i>Science</i> , 2021 , 371, 1240-1245	33.3	35
259	Wide wavelength-tunable narrow-band thermal radiation from moiré patterns. <i>Applied Physics Letters</i> , 2021 , 118, 131111	3.4	5
258	Theory for Twisted Bilayer Photonic Crystal Slabs. <i>Physical Review Letters</i> , 2021 , 126, 136101	7.4	17
257	Arbitrary linear transformations for photons in the frequency synthetic dimension. <i>Nature Communications</i> , 2021 , 12, 2401	17.4	7
256	Control of non-equilibrium Casimir force. <i>Applied Physics Letters</i> , 2021 , 118, 144001	3.4	0
255	Effect of Coulomb interaction on the transient optical response of electrons in field-coupled quantum dots. <i>Physical Review A</i> , 2021 , 103,	2.6	2
254	Single Gyrotropic Particle as a Heat Engine. <i>ACS Photonics</i> , 2021 , 8, 1623-1629	6.3	1

253	Photonic Modal Circulator Using Temporal Refractive-Index Modulation with Spatial Inversion Symmetry. <i>Physical Review Letters</i> , 2021 , 126, 193901	7.4	3
252	Deep-Subwavelength Thermal Switch via Resonant Coupling in Monolayer Hexagonal Boron Nitride. <i>Physical Review Applied</i> , 2021 , 15,	4.3	6
251	Quantum Entanglement and Modulation Enhancement of Free-Electron-Bound-Electron Interaction. <i>Physical Review Letters</i> , 2021 , 126, 233402	7.4	17
250	Controllable finite ultra-narrow quality-factor peak in a perturbed Dirac-cone band structure of a photonic-crystal slab. <i>Applied Physics Letters</i> , 2021 , 119, 031105	3.4	4
249	Perfect RGB-IR Color Routers for Sub-Wavelength Size CMOS Image Sensor Pixels. <i>Advanced Photonics Research</i> , 2021 , 2, 2000048	1.9	5
248	Scalable and hierarchically designed polymer film as a selective thermal emitter for high-performance all-day radiative cooling. <i>Nature Nanotechnology</i> , 2021 , 16, 153-158	28.7	132
247	Nighttime Radiative Cooling for Water Harvesting from Solar Panels. <i>ACS Photonics</i> , 2021 , 8, 269-275	6.3	14
246	Self-Focused Thermal Emission and Holography Realized by Mesoscopic Thermal Emitters. <i>ACS Photonics</i> , 2021 , 8, 497-504	6.3	6
245	Dynamic band structure measurement in the synthetic space. <i>Science Advances</i> , 2021 , 7,	14.3	9
244	Three-Dimensional Printable Nanoporous Polymer Matrix Composites for Daytime Radiative Cooling. <i>Nano Letters</i> , 2021 , 21, 1493-1499	11.5	34
243	Topological optical differentiator. <i>Nature Communications</i> , 2021 , 12, 680	17.4	36
242	Doubly-Resonant Photonic Crystal Cavities for Efficient Second-Harmonic Generation in III-V Semiconductors. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
241	Inverse Design of Plasma Metamaterial Devices for Optical Computing. <i>Physical Review Applied</i> , 2021 , 16,	4.3	4
240	Synthetic frequency dimensions in dynamically modulated ring resonators. <i>APL Photonics</i> , 2021 , 6, 071102	9.2	5
239	Inverse Design of Metasurfaces Based on Coupled-Mode Theory and Adjoint Optimization. <i>ACS Photonics</i> , 2021 , 8, 2265-2273	6.3	12
238	Violating Kirchhoff's Law of Thermal Radiation in Semitransparent Structures. <i>ACS Photonics</i> , 2021 , 8, 2417-2424	6.3	8
237	Generation of guided space-time wave packets using multilevel indirect photonic transitions in integrated photonics. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
236	Configurable Phase Transitions in a Topological Thermal Material. <i>Physical Review Letters</i> , 2021 , 127, 105901	7.4	7

235	Structured 3D linear space-time light bullets by nonlocal nanophotonics. <i>Light: Science and Applications</i> , 2021 , 10, 160	16.7	6
234	High-performance photonic transformers for DC voltage conversion. <i>Nature Communications</i> , 2021 , 12, 4684	17.4	1
233	Thermodynamics of Light Management in Near-Field Thermophotovoltaics. <i>Physical Review Applied</i> , 2021 , 16,	4.3	3
232	Universal Behavior of the Scattering Matrix Near Thresholds in Photonics.. <i>Physical Review Letters</i> , 2021 , 127, 277401	7.4	
231	Reaching the Ultimate Efficiency of Solar Energy Harvesting with a Nonreciprocal Multijunction Solar Cell.. <i>Nano Letters</i> , 2021 ,	11.5	8
230	Efficient and robust wireless power transfer based on parity-time symmetry 2020 ,		1
229	Homotopy characterization of non-Hermitian Hamiltonians. <i>Physical Review B</i> , 2020 , 101,	3.3	26
228	Parallel Programming of an Arbitrary Feedforward Photonic Network. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020 , 26, 1-13	3.8	17
227	Inverse Design of Photonic Crystals through Automatic Differentiation. <i>ACS Photonics</i> , 2020 , 7, 1729-1741	4.3	36
226	Meron Spin Textures in Momentum Space. <i>Physical Review Letters</i> , 2020 , 124, 106103	7.4	22
225	Experimental demonstration of acoustic semimetal with topologically charged nodal surface. <i>Science Advances</i> , 2020 , 6, eaav2360	14.3	24
224	Nonreciprocal Metamaterial Obeying Time-Reversal Symmetry. <i>Physical Review Letters</i> , 2020 , 124, 257403	4.4	4
223	Fundamental Limits of the Dew-Harvesting Technology. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2020 , 24, 43-52	3.7	12
222	Photonic Refrigeration from Time-Modulated Thermal Emission. <i>Physical Review Letters</i> , 2020 , 124, 077402	4.2	9
221	Axion-Field-Enabled Nonreciprocal Thermal Radiation in Weyl Semimetals. <i>Nano Letters</i> , 2020 , 20, 1923-1927	12.7	51
220	Nonreciprocal radiative heat transfer between two planar bodies. <i>Physical Review B</i> , 2020 , 101,	3.3	9
219	Broadening Near-Field Emission for Performance Enhancement in Thermophotovoltaics. <i>Nano Letters</i> , 2020 , 20, 1654-1661	11.5	21
218	Compact Incoherent Image Differentiation with Nanophotonic Structures. <i>ACS Photonics</i> , 2020 , 7, 338-343	4.3	21

217	Absence of unidirectionally propagating surface plasmon-polaritons at nonreciprocal metal-dielectric interfaces. <i>Nature Communications</i> , 2020 , 11, 674	17.4	29
216	Thermodynamic limits for simultaneous energy harvesting from the hot sun and cold outer space. <i>Light: Science and Applications</i> , 2020 , 9, 68	16.7	33
215	Retarded Charge Carrier Recombination in Photoelectrochemical Cells from Plasmon-Induced Resonance Energy Transfer. <i>Advanced Energy Materials</i> , 2020 , 10, 2000570	21.8	22
214	Universal programmable photonic architecture for quantum information processing. <i>Physical Review A</i> , 2020 , 101,	2.6	6
213	Operating modes of dual-grating dielectric laser accelerators. <i>Physical Review Accelerators and Beams</i> , 2020 , 23,	1.8	2
212	Nonreciprocity in Bianisotropic Systems with Uniform Time Modulation. <i>Physical Review Letters</i> , 2020 , 125, 266102	7.4	16
211	Alice strings in non-Hermitian systems. <i>Physical Review Research</i> , 2020 , 2,	3.9	4
210	Integrated near-field thermo-photovoltaics for heat recycling. <i>Nature Communications</i> , 2020 , 11, 2545	17.4	42
209	A single photonic cavity with two independent physical synthetic dimensions. <i>Science</i> , 2020 , 367, 59-64	33.3	87
208	Ultrafast pyroelectric photodetection with on-chip spectral filters. <i>Nature Materials</i> , 2020 , 19, 158-162	27	53
207	Radiative Thermal Router Based on Tunable Magnetic Weyl Semimetals. <i>ACS Photonics</i> , 2020 , 7, 3257-3263	26.3	15
206	Higher-order topological insulators in synthetic dimensions. <i>Light: Science and Applications</i> , 2020 , 9, 131	16.7	27
205	Single-Photon Transport in a Topological Waveguide from a Dynamically Modulated Photonic System. <i>Physical Review Applied</i> , 2020 , 14,	4.3	1
204	PT-Symmetric Topological Edge-Gain Effect. <i>Physical Review Letters</i> , 2020 , 125, 033603	7.4	14
203	Two-level quantum system as a macroscopic scatterer for ultraconfined two-dimensional photonic modes. <i>Physical Review A</i> , 2020 , 102,	2.6	3
202	Terrestrial radiative cooling: Using the cold universe as a renewable and sustainable energy source. <i>Science</i> , 2020 , 370, 786-791	33.3	110
201	Theoretical constraints on reciprocal and non-reciprocal many-body radiative heat transfer. <i>Physical Review B</i> , 2020 , 102,	3.3	5
200	Inverse Design of Lightweight Broadband Reflector for Relativistic Lightsail Propulsion. <i>ACS Photonics</i> , 2020 , 7, 2350-2355	6.3	19

199	Tutorial on Electromagnetic Nonreciprocity and its Origins. <i>Proceedings of the IEEE</i> , 2020 , 108, 1684-1727	14.3	35
198	Three-dimensional Random Dielectric Colloid Metamaterial with Giant Isotropic Optical Activity. <i>Laser and Photonics Reviews</i> , 2020 , 14, 2000151	8.3	5
197	Creating an Eco-Friendly Building Coating with Smart Subambient Radiative Cooling. <i>Advanced Materials</i> , 2020 , 32, e1906751	24	68
196	Experimental demonstration of silicon photonic devices optimized by a flexible and deterministic pixel-by-pixel technique. <i>Applied Physics Letters</i> , 2020 , 117, 071104	3.4	2
195	Reprogrammable Electro-Optic Nonlinear Activation Functions for Optical Neural Networks. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020 , 26, 1-12	3.8	60
194	Robust and efficient wireless power transfer using a switch-mode implementation of a nonlinear parity-time symmetric circuit. <i>Nature Electronics</i> , 2020 , 3, 273-279	28.4	27
193	Sub-Wavelength Passive Optical Isolators Using Photonic Structures Based on Weyl Semimetals. <i>Advanced Optical Materials</i> , 2020 , 8, 2000100	8.1	26
192	Gate-Tunable Near-Field Heat Transfer. <i>ACS Photonics</i> , 2019 , 6, 709-719	6.3	30
191	High Reflection from a One-Dimensional Array of Graphene Nanoribbons. <i>ACS Photonics</i> , 2019 , 6, 339-344	4.3	6
190	Self-sustaining thermophotonic circuits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 11596-11601	11.5	4
189	Experimental demonstration of energy harvesting from the sky using the negative illumination effect of a semiconductor photodiode. <i>Applied Physics Letters</i> , 2019 , 114, 161102	3.4	23
188	Photonic Gauge Potential in One Cavity with Synthetic Frequency and Orbital Angular Momentum Dimensions. <i>Physical Review Letters</i> , 2019 , 122, 083903	7.4	27
187	Nodal chain semimetal in geometrically frustrated systems. <i>Physical Review B</i> , 2019 , 99,	3.3	11
186	Light trapping in photonic structures. <i>Semiconductors and Semimetals</i> , 2019 , 45-91	0.6	1
185	Experimental band structure spectroscopy along a synthetic dimension. <i>Nature Communications</i> , 2019 , 10, 3122	17.4	45
184	High-Temperature Polarization-Free III-Nitride Solar Cells with Self-Cooling Effects. <i>ACS Photonics</i> , 2019 , 6, 2096-2103	6.3	18
183	Penetration Depth Reduction with Plasmonic Metafilms. <i>ACS Photonics</i> , 2019 , 6, 2049-2055	6.3	2
182	Forward-Mode Differentiation of Maxwell's Equations. <i>ACS Photonics</i> , 2019 , 6, 3010-3016	6.3	20

181	Anti-parity-time symmetry in diffusive systems. <i>Science</i> , 2019 , 364, 170-173	33.3	116
180	Wave optics light-trapping theory: mathematical justification and ultimate limit on enhancement. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, 2414	1.7	1
179	Direct Object Recognition Without Line-Of-Sight Using Optical Coherence 2019 ,		3
178	Relation between photon thermal Hall effect and persistent heat current in nonreciprocal radiative heat transfer. <i>Physical Review B</i> , 2019 , 100,	3.3	8
177	Broadband Linear-to-Circular Polarization Conversion Enabled by Birefringent Off-Resonance Reflective Metasurfaces. <i>Physical Review Letters</i> , 2019 , 123, 237401	7.4	43
176	Wave physics as an analog recurrent neural network. <i>Science Advances</i> , 2019 , 5, eaay6946	14.3	89
175	Rare Earth Doped Optical Fibers with Multi-section Core. <i>IScience</i> , 2019 , 22, 423-429	6.1	4
174	Direction-dependent parity-time phase transition and nonreciprocal amplification with dynamic gain-loss modulation. <i>Physical Review A</i> , 2019 , 99,	2.6	22
173	Arbitrary Polarization Conversion with a Photonic Crystal Slab. <i>Advanced Optical Materials</i> , 2019 , 7, 1801853	18.53	15
172	Electronically programmable photonic molecule. <i>Nature Photonics</i> , 2019 , 13, 36-40	33.9	77
171	Experimental Demonstration of Dynamical Input Isolation in Nonadiabatically Modulated Photonic Cavities. <i>ACS Photonics</i> , 2019 , 6, 162-169	6.3	10
170	Thermal meta-device in analogue of zero-index photonics. <i>Nature Materials</i> , 2019 , 18, 48-54	27	112
169	Theory of many-body radiative heat transfer without the constraint of reciprocity. <i>Physical Review B</i> , 2018 , 97,	3.3	38
168	Response to Comment on High-performance near-field electroluminescent refrigeration device consisting of a GaAs light emitting diode and a Si photovoltaic cell[J. Appl. Phys. 122, 143104 (2017)]. <i>Journal of Applied Physics</i> , 2018 , 123, 116102	2.5	
167	Thermodynamic limits of energy harvesting from outgoing thermal radiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E3609-E3615	11.5	46
166	Low index contrast heterostructure photonic crystal cavities with high quality factors and vertical radiation coupling. <i>Applied Physics Letters</i> , 2018 , 112, 141105	3.4	7
165	Anti-Hermitian photodetector facilitating efficient subwavelength photon sorting. <i>Nature Communications</i> , 2018 , 9, 316	17.4	20
164	Metamaterials for radiative sky cooling. <i>National Science Review</i> , 2018 , 5, 132-133	10.8	35

163	Significant Enhancement of Near-Field Electromagnetic Heat Transfer in a Multilayer Structure through Multiple Surface-States Coupling. <i>Physical Review Letters</i> , 2018 , 120, 063901	7.4	47
162	Nanoporous polyethylene microfibrils for large-scale radiative cooling fabric. <i>Nature Sustainability</i> , 2018 , 1, 105-112	22.1	206
161	Size Scaling of Photonic Crystal Surface Emitting Lasers on Silicon Substrates. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-6	1.8	3
160	Electroluminescent refrigeration by ultra-efficient GaAs light-emitting diodes. <i>Journal of Applied Physics</i> , 2018 , 123, 173104	2.5	29
159	Synthetic space with arbitrary dimensions in a few rings undergoing dynamic modulation. <i>Physical Review B</i> , 2018 , 97,	3.3	34
158	Enhancing Mo:BiVO ₄ Solar Water Splitting with Patterned Au Nanospheres by Plasmon-Induced Energy Transfer. <i>Advanced Energy Materials</i> , 2018 , 8, 1701765	21.8	60
157	First-principles simulation of photonic crystal surface-emitting lasers using rigorous coupled wave analysis. <i>Applied Physics Letters</i> , 2018 , 113, 041106	3.4	14
156	Nanophotonic control of thermal radiation for energy applications [Invited]. <i>Optics Express</i> , 2018 , 26, 15995-16021	3.3	151
155	Nonreciprocal Photonics Without Magneto-Optics. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 1948-1952	3.8	12
154	Spectrally Selective Nanocomposite Textile for Outdoor Personal Cooling. <i>Advanced Materials</i> , 2018 , 30, e1802152	24	181
153	Broadband Control of Topological Nodes in Electromagnetic Fields. <i>Physical Review Letters</i> , 2018 , 120, 193903	7.4	1
152	Effective electric-field force for a photon in a synthetic frequency lattice created in a waveguide modulator. <i>Physical Review A</i> , 2018 , 97,	2.6	22
151	Optimization of Multilayer Optical Films with a Memetic Algorithm and Mixed Integer Programming. <i>ACS Photonics</i> , 2018 , 5, 684-691	6.3	70
150	Three-Dimensional Chiral Lattice Fermion in Floquet Systems. <i>Physical Review Letters</i> , 2018 , 121, 196401	7.4	14
149	Zero-Index Bound States in the Continuum. <i>Physical Review Letters</i> , 2018 , 121, 263901	7.4	55
148	Adjoint Method and Inverse Design for Nonlinear Nanophotonic Devices. <i>ACS Photonics</i> , 2018 , 5, 4781-4787	7.7	85
147	Generate tensor network state by sequential single-photon scattering in waveguide QED systems. <i>APL Photonics</i> , 2018 , 3, 116102	5.2	7
146	Photonic thermal management of coloured objects. <i>Nature Communications</i> , 2018 , 9, 4240	17.4	80

145	Subwavelength angle-sensing photodetectors inspired by directional hearing in small animals. <i>Nature Nanotechnology</i> , 2018 , 13, 1143-1147	28.7	40
144	Pulse shortening in an actively mode-locked laser with parity-time symmetry. <i>APL Photonics</i> , 2018 , 3, 086103	5.2	13
143	Daytime Radiative Cooling Using Near-Black Infrared Emitters. <i>ACS Photonics</i> , 2017 , 4, 626-630	6.3	333
142	Synthetic gauge potential and effective magnetic field in a Raman medium undergoing molecular modulation. <i>Physical Review A</i> , 2017 , 95,	2.6	6
141	Plasmonic computing of spatial differentiation. <i>Nature Communications</i> , 2017 , 8, 15391	17.4	167
140	Robust wireless power transfer using a nonlinear parity-time-symmetric circuit. <i>Nature</i> , 2017 , 546, 387-390	9.4	292
139	Analysis of an anti-reflecting nanowire transparent electrode for solar cells. <i>Journal of Applied Physics</i> , 2017 , 121, 113109	2.5	5
138	A Comprehensive Photonic Approach for Solar Cell Cooling. <i>ACS Photonics</i> , 2017 , 4, 774-782	6.3	166
137	PT-symmetric spectral singularity and negative-frequency resonance. <i>Physical Review A</i> , 2017 , 95,	2.6	11
136	Exergy in near-field electromagnetic heat transfer. <i>Journal of Applied Physics</i> , 2017 , 122, 124306	2.5	2
135	Creating anyons from photons using a nonlinear resonator lattice subject to dynamic modulation. <i>Physical Review A</i> , 2017 , 96,	2.6	3
134	Topologically Protected Complete Polarization Conversion. <i>Physical Review Letters</i> , 2017 , 119, 167401	7.4	50
133	High-performance near-field electroluminescent refrigeration device consisting of a GaAs light emitting diode and a Si photovoltaic cell. <i>Journal of Applied Physics</i> , 2017 , 122, 143104	2.5	43
132	Warming up human body by nanoporous metallized polyethylene textile. <i>Nature Communications</i> , 2017 , 8, 496	17.4	162
131	Near-field heat transfer between graphene/hBN multilayers. <i>Physical Review B</i> , 2017 , 95,	3.3	95
130	Semiconductor-based Multilayer Selective Solar Absorber for Unconcentrated Solar Thermal Energy Conversion. <i>Scientific Reports</i> , 2017 , 7, 5362	4.9	29
129	Generalized cluster decomposition principle illustrated in waveguide quantum electrodynamics. <i>Physical Review A</i> , 2017 , 95,	2.6	13
128	A dual-mode textile for human body radiative heating and cooling. <i>Science Advances</i> , 2017 , 3, e1700895	14.3	222

127	Achieving Arbitrary Control over Pairs of Polarization States Using Complex Birefringent Metamaterials. <i>Physical Review Letters</i> , 2017 , 118, 253902	7.4	29
126	Enhancing Near-Field Radiative Heat Transfer with Si-based Metasurfaces. <i>Physical Review Letters</i> , 2017 , 118, 203901	7.4	73
125	Passive cooling of solar cells with a comprehensive photonic approach 2017 ,		2
124	Radiative human body cooling by nanoporous polyethylene textile. <i>Science</i> , 2016 , 353, 1019-1023	33.3	464
123	Near-Field Enhanced Negative Luminescent Refrigeration. <i>Physical Review Applied</i> , 2016 , 6,	4.3	40
122	Plasmonic Circuit Theory for Multiresonant Light Funneling to a Single Spatial Hot Spot. <i>Nano Letters</i> , 2016 , 16, 5764-9	11.5	13
121	Exceptional Contours and Band Structure Design in Parity-Time Symmetric Photonic Crystals. <i>Physical Review Letters</i> , 2016 , 116, 203902	7.4	77
120	Fano interference in two-photon transport. <i>Physical Review A</i> , 2016 , 94,	2.6	5
119	Highly tunable refractive index visible-light metasurface from block copolymer self-assembly. <i>Nature Communications</i> , 2016 , 7, 12911	17.4	109
118	Narrowband thermal emission from a uniform tungsten surface critically coupled with a photonic crystal guided resonance. <i>Optics Express</i> , 2016 , 24, 29896-29907	3.3	19
117	Temporal coupled mode theory linking to surface-wave dispersion relations in near-field electromagnetic heat transfer. <i>Journal of Applied Physics</i> , 2016 , 120, 194301	2.5	3
116	Photonic Weyl point in a two-dimensional resonator lattice with a synthetic frequency dimension. <i>Nature Communications</i> , 2016 , 7, 13731	17.4	114
115	Nonequilibrium Casimir Force with a Nonzero Chemical Potential for Photons. <i>Physical Review Letters</i> , 2016 , 117, 267401	7.4	9
114	Radiative cooling to deep sub-freezing temperatures through a 24-h day-night cycle. <i>Nature Communications</i> , 2016 , 7, 13729	17.4	371
113	Photonic Structure Textile Design for Localized Thermal Cooling Based on a Fiber Blending Scheme. <i>ACS Photonics</i> , 2016 , 3, 2420-2426	6.3	40
112	Angle-selective perfect absorption with two-dimensional materials. <i>Light: Science and Applications</i> , 2016 , 5, e16052	16.7	70
111	High-Performance Ultrathin BiVO ₄ Photoanode on Textured Polydimethylsiloxane Substrates for Solar Water Splitting. <i>ACS Energy Letters</i> , 2016 , 1, 68-75	20.1	55
110	Hyperbolic Weyl Point in Reciprocal Chiral Metamaterials. <i>Physical Review Letters</i> , 2016 , 117, 057401	7.4	101

109	Persistent Directional Current at Equilibrium in Nonreciprocal Many-Body Near Field Electromagnetic Heat Transfer. <i>Physical Review Letters</i> , 2016 , 117, 134303	7.4	76
108	Slanted gold mushroom array: a switchable bi/tridirectional surface plasmon polariton splitter. <i>Nanoscale</i> , 2016 , 8, 15505-13	7.7	7
107	Theory of Half-Space Light Absorption Enhancement for Leaky Mode Resonant Nanowires. <i>Nano Letters</i> , 2015 , 15, 5513-8	11.5	13
106	Three-Dimensional Dynamic Localization of Light from a Time-Dependent Effective Gauge Field for Photons. <i>Physical Review Letters</i> , 2015 , 114, 243901	7.4	26
105	Planar immersion lens with metasurfaces. <i>Physical Review B</i> , 2015 , 91,	3.3	22
104	Radiative cooling of solar absorbers using a visibly transparent photonic crystal thermal blackbody. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 12282-7	11.5	301
103	Condition for Perfect Resonant Antireflection. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1788, 7-12		
102	Analog of superradiant emission in thermal emitters. <i>Physical Review B</i> , 2015 , 92,	3.3	20
101	Analytical treatment of near-field electromagnetic heat transfer at the nanoscale. <i>Physical Review B</i> , 2015 , 92,	3.3	14
100	Limitations of nonlinear optical isolators due to dynamic reciprocity. <i>Nature Photonics</i> , 2015 , 9, 388-392	33.9	246
99	Heat-flux control and solid-state cooling by regulating chemical potential of photons in near-field electromagnetic heat transfer. <i>Physical Review B</i> , 2015 , 91,	3.3	91
98	Graphene surface plasmons at the near-infrared optical regime. <i>Scientific Reports</i> , 2014 , 4, 6559	4.9	63
97	Towards ultra-thin plasmonic silicon wafer solar cells with minimized efficiency loss. <i>Scientific Reports</i> , 2014 , 4, 4939	4.9	83
96	Nanoscale thermal transport. II. 2003-2012. <i>Applied Physics Reviews</i> , 2014 , 1, 011305	17.3	1050
95	Total Absorption in a Graphene Monolayer in the Optical Regime by Critical Coupling with a Photonic Crystal Guided Resonance. <i>ACS Photonics</i> , 2014 , 1, 347-353	6.3	389
94	Optical Fano resonance of an individual semiconductor nanostructure. <i>Nature Materials</i> , 2014 , 13, 471-527		173
93	Light management for photovoltaics using high-index nanostructures. <i>Nature Materials</i> , 2014 , 13, 451-607		670
92	Light trapping in photonic crystals. <i>Energy and Environmental Science</i> , 2014 , 7, 2725	35.4	49

91	Non-reciprocal phase shift induced by an effective magnetic flux for light. <i>Nature Photonics</i> , 2014 , 8, 701-705	33.9	214
90	Light Guiding by Effective Gauge Field for Photons. <i>Physical Review X</i> , 2014 , 4,	9.1	37
89	Photonic Aharonov-Bohm effect in photon-phonon interactions. <i>Nature Communications</i> , 2014 , 5, 3225	17.4	96
88	Fluctuational electrodynamics calculations of near-field heat transfer in non-planar geometries: A brief overview. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014 , 132, 3-11	2.1	59
87	Nearly Total Solar Absorption in Ultrathin Nanostructured Iron Oxide for Efficient Photoelectrochemical Water Splitting. <i>ACS Photonics</i> , 2014 , 1, 235-240	6.3	71
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