

# Yu Guo

## List of Publications by Year in descending order

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310  
papers

36,703  
citations

3726

89  
h-index

3181

186  
g-index

313  
all docs

313  
docs citations

313  
times ranked

20934  
citing authors

#	ARTICLE	IF	CITATIONS
1	Passive radiative cooling below ambient air temperature under direct sunlight. <i>Nature</i> , 2014, 515, 540-544.	13.7	2,008
2	Parity-time-symmetric whispering-gallery microcavities. <i>Nature Physics</i> , 2014, 10, 394-398.	6.5	1,892
3	Large single-molecule fluorescence enhancements produced by a bowtie nanoantenna. <i>Nature Photonics</i> , 2009, 3, 654-657.	15.6	1,788
4	Nanoscale thermal transport. II. 2003-2012. <i>Applied Physics Reviews</i> , 2014, 1, 011305.	5.5	1,277
5	Temporal coupled-mode theory for the Fano resonance in optical resonators. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 569.	0.8	1,156
6	Analysis of guided resonances in photonic crystal slabs. <i>Physical Review B</i> , 2002, 65, .	1.1	1,146
7	Complete optical isolation created by indirect interband photonic transitions. <i>Nature Photonics</i> , 2009, 3, 91-94.	15.6	990
8	Realizing effective magnetic field for photons by controlling the phase of dynamic modulation. <i>Nature Photonics</i> , 2012, 6, 782-787.	15.6	892
9	Light management for photovoltaics using high-index nanostructures. <i>Nature Materials</i> , 2014, 13, 451-460.	13.3	796
10	Radiative human body cooling by nanoporous polyethylene textile. <i>Science</i> , 2016, 353, 1019-1023.	6.0	764
11	What is " and what is not " an optical isolator. <i>Nature Photonics</i> , 2013, 7, 579-582.	15.6	712
12	Electrically Driven Nonreciprocity Induced by Interband Photonic Transition on a Silicon Chip. <i>Physical Review Letters</i> , 2012, 109, 033901.	2.9	580
13	Radiative cooling to deep sub-freezing temperatures through a 24-h day-night cycle. <i>Nature Communications</i> , 2016, 7, 13729.	5.8	574
14	S4 : A free electromagnetic solver for layered periodic structures. <i>Computer Physics Communications</i> , 2012, 183, 2233-2244.	3.0	531
15	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.	3.2	516
16	Daytime Radiative Cooling Using Near-Black Infrared Emitters. <i>ACS Photonics</i> , 2017, 4, 626-630.	3.2	485
17	Robust wireless power transfer using a nonlinear parity-time-symmetric circuit. <i>Nature</i> , 2017, 546, 387-390.	13.7	467
18	Sharp asymmetric line shapes in side-coupled waveguide-cavity systems. <i>Applied Physics Letters</i> , 2002, 80, 908-910.	1.5	459

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19	Radiative cooling of solar absorbers using a visibly transparent photonic crystal thermal blackbody. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12282-12287.	3.3	449
20	Scalable and hierarchically designed polymer film as a selective thermal emitter for high-performance all-day radiative cooling. Nature Nanotechnology, 2021, 16, 153-158.	15.6	405
21	Thermal Rectification through Vacuum. Physical Review Letters, 2010, 104, 154301.	2.9	402
22	A dual-mode textile for human body radiative heating and cooling. Science Advances, 2017, 3, e1700895.	4.7	399
23	Limitations of nonlinear optical isolators due to dynamic reciprocity. Nature Photonics, 2015, 9, 388-392.	15.6	372
24	Nanoporous polyethylene microfibrils for large-scale radiative cooling fabric. Nature Sustainability, 2018, 1, 105-112.	11.5	370
25	Terrestrial radiative cooling: Using the cold universe as a renewable and sustainable energy source. Science, 2020, 370, 786-791.	6.0	370
26	Spectrally Selective Nanocomposite Textile for Outdoor Personal Cooling. Advanced Materials, 2018, 30, e1802152.	11.1	362
27	Photonic Aharonov-Bohm Effect Based on Dynamic Modulation. Physical Review Letters, 2012, 108, 153901.	2.9	323
28	Broadband super-Planckian thermal emission from hyperbolic metamaterials. Applied Physics Letters, 2012, 101, .	1.5	298
29	Non-reciprocal phase shift induced by an effective magnetic flux for light. Nature Photonics, 2014, 8, 701-705.	15.6	295
30	Plasmonic computing of spatial differentiation. Nature Communications, 2017, 8, 15391.	5.8	292
31	Modes of Subwavelength Plasmonic Slot Waveguides. Journal of Lightwave Technology, 2007, 25, 2511-2521.	2.7	281
32	Warming up human body by nanoporous metallized polyethylene textile. Nature Communications, 2017, 8, 496.	5.8	280
33	Transforming heat transfer with thermal metamaterials and devices. Nature Reviews Materials, 2021, 6, 488-507.	23.3	270
34	A Comprehensive Photonic Approach for Solar Cell Cooling. ACS Photonics, 2017, 4, 774-782.	3.2	262
35	Nanophotonic control of thermal radiation for energy applications [Invited]. Optics Express, 2018, 26, 15995.	1.7	248
36	Bends and splitters for self-collimated beams in photonic crystals. Applied Physics Letters, 2003, 83, 3251-3253.	1.5	246

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37	Progress in 2D photonic crystal Fano resonance photonics. Progress in Quantum Electronics, 2014, 38, 1-74.	3.5	232
38	Anti-“parity-time symmetry in diffusive systems. Science, 2019, 364, 170-173.	6.0	217
39	Enhancement of optical absorption in thin-film organic solar cells through the excitation of plasmonic modes in metallic gratings. Applied Physics Letters, 2010, 96, .	1.5	214
40	Input-output formalism for few-photon transport in one-dimensional nanophotonic waveguides coupled to a qubit. Physical Review A, 2010, 82, .	1.0	213
41	High-“Efficiency Amorphous Silicon Solar Cell on a Periodic Nanocone Back Reflector. Advanced Energy Materials, 2012, 2, 628-633.	10.2	212
42	Displacement-sensitive photonic crystal structures based on guided resonance in photonic crystal slabs. Applied Physics Letters, 2003, 82, 1999-2001.	1.5	206
43	Optical Fano resonance of an individual semiconductor nanostructure. Nature Materials, 2014, 13, 471-475.	13.3	205
44	Wave physics as an analog recurrent neural network. Science Advances, 2019, 5, eaay6946.	4.7	201
45	Creating an Eco-“Friendly Building Coating with Smart Subambient Radiative Cooling. Advanced Materials, 2020, 32, e1906751.	11.1	196
46	Adjoint Method and Inverse Design for Nonlinear Nanophotonic Devices. ACS Photonics, 2018, 5, 4781-4787.	3.2	188
47	Photonics and thermodynamics concepts in radiative cooling. Nature Photonics, 2022, 16, 182-190.	15.6	187
48	Near-Field Radiative Cooling of Nanostructures. Nano Letters, 2012, 12, 4546-4550.	4.5	184
49	One-way total reflection with one-dimensional magneto-optical photonic crystals. Applied Physics Letters, 2007, 90, 121133.	1.5	180
50	Subambient daytime radiative cooling textile based on nanoprocessed silk. Nature Nanotechnology, 2021, 16, 1342-1348.	15.6	178
51	A single photonic cavity with two independent physical synthetic dimensions. Science, 2020, 367, 59-64.	6.0	175
52	Thermal meta-device in analogue of zero-index photonics. Nature Materials, 2019, 18, 48-54.	13.3	172
53	Photonic Weyl point in a two-dimensional resonator lattice with a synthetic frequency dimension. Nature Communications, 2016, 7, 13731.	5.8	170
54	Reprogrammable Electro-Optic Nonlinear Activation Functions for Optical Neural Networks. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-12.	1.9	168

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55	Principal modes in multimode waveguides. <i>Optics Letters</i> , 2005, 30, 135.	1.7	160
56	Tungsten black absorber for solar light with wide angular operation range. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	160
57	Generating arbitrary topological windings of a non-Hermitian band. <i>Science</i> , 2021, 371, 1240-1245.	6.0	159
58	Thermal hyperbolic metamaterials. <i>Optics Express</i> , 2013, 21, 15014.	1.7	158
59	Near-field heat transfer between graphene/hBN multilayers. <i>Physical Review B</i> , 2017, 95, .	1.1	155
60	Electronically programmable photonic molecule. <i>Nature Photonics</i> , 2019, 13, 36-40.	15.6	155
61	Color-preserving daytime radiative cooling. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	154
62	Axion-Field-Enabled Nonreciprocal Thermal Radiation in Weyl Semimetals. <i>Nano Letters</i> , 2020, 20, 1923-1927.	4.5	152
63	Applications of Hyperbolic Metamaterial Substrates. <i>Advances in OptoElectronics</i> , 2012, 2012, 1-9.	0.6	149
64	Highly tunable refractive index visible-light metasurface from block copolymer self-assembly. <i>Nature Communications</i> , 2016, 7, 12911.	5.8	143
65	Hyperbolic Weyl Point in Reciprocal Chiral Metamaterials. <i>Physical Review Letters</i> , 2016, 117, 057401.	2.9	141
66	Photonic thermal management of coloured objects. <i>Nature Communications</i> , 2018, 9, 4240.	5.8	139
67	Design of subwavelength superscattering nanospheres. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	138
68	Topological complex-energy braiding of non-Hermitian bands. <i>Nature</i> , 2021, 598, 59-64.	13.7	132
69	Temporal Coupled-Mode Theory for Fano Resonance in Light Scattering by a Single Obstacle. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7324-7329.	1.5	129
70	Photonic Aharonov-Bohm effect in photon-phonon interactions. <i>Nature Communications</i> , 2014, 5, 3225.	5.8	124
71	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, .	1.1	118
72	Persistent Directional Current at Equilibrium in Nonreciprocal Many-Body Near Field Electromagnetic Heat Transfer. <i>Physical Review Letters</i> , 2016, 117, 134303.	2.9	118

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73	Comment on "Nonreciprocal Light Propagation in a Silicon Photonic Circuit", Science, 2012, 335, 38-38.	6.0	114
74	Tutorial on Electromagnetic Nonreciprocity and its Origins. Proceedings of the IEEE, 2020, 108, 1684-1727.	16.4	114
75	Inverse Design of Photonic Crystals through Automatic Differentiation. ACS Photonics, 2020, 7, 1729-1741.	3.2	114
76	Enhancing Near-Field Radiative Heat Transfer with Si-based Metasurfaces. Physical Review Letters, 2017, 118, 203901.	2.9	107
77	Optimization of Multilayer Optical Films with a Memetic Algorithm and Mixed Integer Programming. ACS Photonics, 2018, 5, 684-691.	3.2	103
78	Towards ultra-thin plasmonic silicon wafer solar cells with minimized efficiency loss. Scientific Reports, 2014, 4, 4939.	1.6	102
79	Exceptional Contours and Band Structure Design in Parity-Time Symmetric Photonic Crystals. Physical Review Letters, 2016, 116, 203902.	2.9	102
80	Three-Dimensional Printable Nanoporous Polymer Matrix Composites for Daytime Radiative Cooling. Nano Letters, 2021, 21, 1493-1499.	4.5	102
81	Ultrafast pyroelectric photodetection with on-chip spectral filters. Nature Materials, 2020, 19, 158-162.	13.3	100
82	Zero-Index Bound States in the Continuum. Physical Review Letters, 2018, 121, 263901.	2.9	98
83	Model dispersive media in finite-difference time-domain method with complex-conjugate pole-residue pairs. IEEE Microwave and Wireless Components Letters, 2006, 16, 119-121.	2.0	95
84	Experimental band structure spectroscopy along a synthetic dimension. Nature Communications, 2019, 10, 3122.	5.8	95
85	All-pass transmission or flat-top reflection filters using a single photonic crystal slab. Applied Physics Letters, 2004, 84, 4905-4907.	1.5	94
86	Numerically exact calculation of electromagnetic heat transfer between a dielectric sphere and plate. Physical Review B, 2011, 84, .	1.1	94
87	Angle-selective perfect absorption with two-dimensional materials. Light: Science and Applications, 2016, 5, e16052-e16052.	7.7	94
88	Topological optical differentiator. Nature Communications, 2021, 12, 680.	5.8	94
89	Displacement sensing using evanescent tunneling between guided resonances in photonic crystal slabs. Journal of Applied Physics, 2005, 98, 033102.	1.1	92
90	Enhancing Mo:BiVO <sub>4</sub> Solar Water Splitting with Patterned Au Nanospheres by Plasmon-Induced Energy Transfer. Advanced Energy Materials, 2018, 8, 1701765.	10.2	92

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91	Homotopy characterization of non-Hermitian Hamiltonians. <i>Physical Review B</i> , 2020, 101, .	1.1	86
92	Integrated cooling (i-Cool) textile of heat conduction and sweat transportation for personal perspiration management. <i>Nature Communications</i> , 2021, 12, 6122.	5.8	86
93	Integrated near-field thermo-photovoltaics for heat recycling. <i>Nature Communications</i> , 2020, 11, 2545.	5.8	85
94	Rectification of evanescent heat transfer between dielectric-coated and uncoated silicon carbide plates. <i>Journal of Applied Physics</i> , 2012, 112, 024304.	1.1	83
95	Protecting ice from melting under sunlight via radiative cooling. <i>Science Advances</i> , 2022, 8, eabj9756.	4.7	80
96	Coloured low-emissivity films for building envelopes for year-round energy savings. <i>Nature Sustainability</i> , 2022, 5, 339-347.	11.5	80
97	Sub-Wavelength Passive Optical Isolators Using Photonic Structures Based on Weyl Semimetals. <i>Advanced Optical Materials</i> , 2020, 8, 2000100.	3.6	79
98	Graphene surface plasmons at the near-infrared optical regime. <i>Scientific Reports</i> , 2014, 4, 6559.	1.6	78
99	Topologically Protected Complete Polarization Conversion. <i>Physical Review Letters</i> , 2017, 119, 167401.	2.9	78
100	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.	3.3	78
101	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.	13.1	78
102	Ultracompact nonreciprocal optical isolator based on guided resonance in a magneto-optical photonic crystal slab. <i>Optics Letters</i> , 2011, 36, 4254.	1.7	77
103	Nearly Total Solar Absorption in Ultrathin Nanostructured Iron Oxide for Efficient Photoelectrochemical Water Splitting. <i>ACS Photonics</i> , 2014, 1, 235-240.	3.2	76
104	Broadband Linear-to-Circular Polarization Conversion Enabled by Birefringent Off-Resonance Reflective Metasurfaces. <i>Physical Review Letters</i> , 2019, 123, 237401.	2.9	76
105	Higher-order topological insulators in synthetic dimensions. <i>Light: Science and Applications</i> , 2020, 9, 131.	7.7	75
106	Complete All-Optical Silica Fiber Isolator via Stimulated Brillouin Scattering. <i>Journal of Lightwave Technology</i> , 2011, 29, 2267-2275.	2.7	73
107	Theory for Twisted Bilayer Photonic Crystal Slabs. <i>Physical Review Letters</i> , 2021, 126, 136101.	2.9	72
108	Experimental demonstration of a photonic Aharonov-Bohm effect at radio frequencies. <i>Physical Review B</i> , 2013, 87, .	1.1	71

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109	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.	1.1	71
110	Photonic Structure Textile Design for Localized Thermal Cooling Based on a Fiber Blending Scheme. <i>ACS Photonics</i> , 2016, 3, 2420-2426.	3.2	71
111	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.	2.9	70
112	Thermodynamic limits for simultaneous energy harvesting from the hot sun and cold outer space. <i>Light: Science and Applications</i> , 2020, 9, 68.	7.7	70
113	High-Performance Ultrathin BiVO <sub>4</sub> Photoanode on Textured Polydimethylsiloxane Substrates for Solar Water Splitting. <i>ACS Energy Letters</i> , 2016, 1, 68-75.	8.8	66
114	Subwavelength angle-sensing photodetectors inspired by directional hearing in small animals. <i>Nature Nanotechnology</i> , 2018, 13, 1143-1147.	15.6	66
115	Few-photon transport in a waveguide coupled to a pair of colocated two-level atoms. <i>Physical Review A</i> , 2011, 84, .	1.0	65
116	Understanding the dispersion of coaxial plasmonic structures through a connection with the planar metal-insulator-metal geometry. <i>Applied Physics Letters</i> , 2009, 94, 231111.	1.5	62
117	Analytic Properties of Two-Photon Scattering Matrix in Integrated Quantum Systems Determined by the Cluster Decomposition Principle. <i>Physical Review Letters</i> , 2013, 111, 223602.	2.9	62
118	Light trapping in photonic crystals. <i>Energy and Environmental Science</i> , 2014, 7, 2725.	15.6	61
119	Metamaterials for radiative sky cooling. <i>National Science Review</i> , 2018, 5, 132-133.	4.6	60
120	Experimental demonstration of acoustic semimetal with topologically charged nodal surface. <i>Science Advances</i> , 2020, 6, eaav2360.	4.7	60
121	Synthetic space with arbitrary dimensions in a few rings undergoing dynamic modulation. <i>Physical Review B</i> , 2018, 97, .	1.1	59
122	Coupled double-layer Fano resonance photonic crystal filters with lattice-displacement. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	58
123	Topological dissipation in a time-multiplexed photonic resonator network. <i>Nature Physics</i> , 2022, 18, 442-449.	6.5	58
124	Nonreciprocal infrared absorption via resonant magneto-optical coupling to InAs. <i>Science Advances</i> , 2022, 8, eabm4308.	4.7	58
125	Radiative Thermal Router Based on Tunable Magnetic Weyl Semimetals. <i>ACS Photonics</i> , 2020, 7, 3257-3263.	3.2	57
126	Reaching the Ultimate Efficiency of Solar Energy Harvesting with a Nonreciprocal Multijunction Solar Cell. <i>Nano Letters</i> , 2022, 22, 448-452.	4.5	56



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127	All-angle negative refraction and evanescent wave amplification using one-dimensional metalodielectric photonic crystals. <i>Applied Physics Letters</i> , 2006, 89, 151102.	1.5	55
128	Photonic Gauge Potential in One Cavity with Synthetic Frequency and Orbital Angular Momentum Dimensions. <i>Physical Review Letters</i> , 2019, 122, 083903.	2.9	54
129	Inverse Design of Lightweight Broadband Reflector for Relativistic Lightsail Propulsion. <i>ACS Photonics</i> , 2020, 7, 2350-2355.	3.2	54
130	Absence of unidirectionally propagating surface plasmon-polaritons at nonreciprocal metal-dielectric interfaces. <i>Nature Communications</i> , 2020, 11, 674.	5.8	54
131	Near-Field Enhanced Negative Luminescent Refrigeration. <i>Physical Review Applied</i> , 2016, 6, .	1.5	53
132	Theory of many-body radiative heat transfer without the constraint of reciprocity. <i>Physical Review B</i> , 2018, 97, .	1.1	53
133	Compact Incoherent Image Differentiation with Nanophotonic Structures. <i>ACS Photonics</i> , 2020, 7, 338-343.	3.2	53
134	Optical Absorption Enhancement in Freestanding GaAs Thin Film Nanopyramid Arrays. <i>Advanced Energy Materials</i> , 2012, 2, 1254-1260.	10.2	52
135	Temporal coupled mode theory for thermal emission from a single thermal emitter supporting either a single mode or an orthogonal set of modes. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	52
136	Negative differential thermal conductance through vacuum. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	50
137	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, .	1.1	49
138	Violating Kirchhoff's Law of Thermal Radiation in Semitransparent Structures. <i>ACS Photonics</i> , 2021, 8, 2417-2424.	3.2	49
139	Nonvolatile bistable all-optical switch from mechanical buckling. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	48
140	Light Guiding by Effective Gauge Field for Photons. <i>Physical Review X</i> , 2014, 4, .	2.8	48
141	Achieving Arbitrary Control over Pairs of Polarization States Using Complex Birefringent Metamaterials. <i>Physical Review Letters</i> , 2017, 118, 253902.	2.9	47
142	Two-photon transport through a waveguide coupling to a whispering-gallery resonator containing an atom and photon-blockade effect. <i>Physical Review A</i> , 2013, 87, .	1.0	46
143	Gate-Tunable Near-Field Heat Transfer. <i>ACS Photonics</i> , 2019, 6, 709-719.	3.2	46
144	Inverse Design of Metasurfaces Based on Coupled-Mode Theory and Adjoint Optimization. <i>ACS Photonics</i> , 2021, 8, 2265-2273.	3.2	45

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145	Meron Spin Textures in Momentum Space. <i>Physical Review Letters</i> , 2020, 124, 106103.	2.9	44
146	Synthetic frequency dimensions in dynamically modulated ring resonators. <i>APL Photonics</i> , 2021, 6, .	3.0	44
147	Creating large bandwidth line defects by embedding dielectric waveguides into photonic crystal slabs. <i>Applied Physics Letters</i> , 2002, 81, 3915-3917.	1.5	43
148	Forward-Mode Differentiation of Maxwell's Equations. <i>ACS Photonics</i> , 2019, 6, 3010-3016.	3.2	43
149	Quantum Entanglement and Modulation Enhancement of Free-Electron-Bound-Electron Interaction. <i>Physical Review Letters</i> , 2021, 126, 233402.	2.9	43
150	Nonreciprocity in Bianisotropic Systems with Uniform Time Modulation. <i>Physical Review Letters</i> , 2020, 125, 266102.	2.9	43
151	Parallel Programming of an Arbitrary Feedforward Photonic Network. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-13.	1.9	42
152	Electroluminescent refrigeration by ultra-efficient GaAs light-emitting diodes. <i>Journal of Applied Physics</i> , 2018, 123, 173104.	1.1	41
153	Nighttime Radiative Cooling for Water Harvesting from Solar Panels. <i>ACS Photonics</i> , 2021, 8, 269-275.	3.2	41
154	Thermal excitation of plasmons for near-field thermophotovoltaics. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	40
155	Retarded Charge-Carrier Recombination in Photoelectrochemical Cells from Plasmon-Induced Resonance Energy Transfer. <i>Advanced Energy Materials</i> , 2020, 10, 2000570.	10.2	40
156	Wannier basis design and optimization of a photonic crystal waveguide crossing. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 1875-1877.	1.3	38
157	Semiconductor-based Multilayer Selective Solar Absorber for Unconcentrated Solar Thermal Energy Conversion. <i>Scientific Reports</i> , 2017, 7, 5362.	1.6	38
158	Experimental demonstration of energy harvesting from the sky using the negative illumination effect of a semiconductor photodiode. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	37
159	Broadening Near-Field Emission for Performance Enhancement in Thermophotovoltaics. <i>Nano Letters</i> , 2020, 20, 1654-1661.	4.5	37
160	Structured 3D linear space-time light bullets by nonlocal nanophotonics. <i>Light: Science and Applications</i> , 2021, 10, 160.	7.7	37
161	Three-Dimensional Dynamic Localization of Light from a Time-Dependent Effective Gauge Field for Photons. <i>Physical Review Letters</i> , 2015, 114, 243901.	2.9	36
162	Planar immersion lens with metasurfaces. <i>Physical Review B</i> , 2015, 91, .	1.1	34

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163	Effective electric-field force for a photon in a synthetic frequency lattice created in a waveguide modulator. <i>Physical Review A</i> , 2018, 97, .	1.0	34
164	Direction-dependent parity-time phase transition and nonreciprocal amplification with dynamic gain-loss modulation. <i>Physical Review A</i> , 2019, 99, .	1.0	34
165	PT-Symmetric Topological Edge-Gain Effect. <i>Physical Review Letters</i> , 2020, 125, 033603.	2.9	34
166	Integrated Nonmagnetic Optical Isolators Based on Photonic Transitions <sup>*</sup> . <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 459-466.	1.9	33
167	Arbitrary Polarization Conversion with a Photonic Crystal Slab. <i>Advanced Optical Materials</i> , 2019, 7, 1801453.	3.6	33
168	Arbitrary linear transformations for photons in the frequency synthetic dimension. <i>Nature Communications</i> , 2021, 12, 2401.	5.8	32
169	Fundamental Limits of the Dew-Harvesting Technology. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2020, 24, 43-52.	1.4	31
170	Perfect RGB-IR Color Routers for Sub-Wavelength Size CMOS Image Sensor Pixels. <i>Advanced Photonics Research</i> , 2021, 2, 2000048.	1.7	31
171	Dynamic band structure measurement in the synthetic space. <i>Science Advances</i> , 2021, 7, .	4.7	31
172	Configurable Phase Transitions in a Topological Thermal Material. <i>Physical Review Letters</i> , 2021, 127, 105901.	2.9	31
173	Photonic Refrigeration from Time-Modulated Thermal Emission. <i>Physical Review Letters</i> , 2020, 124, 077402.	2.9	29
174	Magnet-controlled plasmons. <i>Nature Photonics</i> , 2010, 4, 76-77.	15.6	28
175	Narrowband thermal emission from a uniform tungsten surface critically coupled with a photonic crystal guided resonance. <i>Optics Express</i> , 2016, 24, 29896.	1.7	28
176	High-Temperature Polarization-Free III-Nitride Solar Cells with Self-Cooling Effects. <i>ACS Photonics</i> , 2019, 6, 2096-2103.	3.2	28
177	Inverse Design of Plasma Metamaterial Devices for Optical Computing. <i>Physical Review Applied</i> , 2021, 16, .	1.5	27
178	Quantum critical coupling conditions for zero single-photon transmission through a coupled atom-resonator-waveguide system. <i>Physical Review A</i> , 2010, 82, .	1.0	26
179	Anti-Hermitian photodetector facilitating efficient subwavelength photon sorting. <i>Nature Communications</i> , 2018, 9, 316.	5.8	26
180	Three-Dimensional Chiral Lattice Fermion in Floquet Systems. <i>Physical Review Letters</i> , 2018, 121, 196401.	2.9	26

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181	Nonreciprocal Metamaterial Obeying Time-Reversal Symmetry. <i>Physical Review Letters</i> , 2020, 124, 257403.	2.9	26
182	Space-Time Metasurfaces for Power Combining of Waves. <i>ACS Photonics</i> , 2021, 8, 3034-3041.	3.2	26
183	Reflectionless multichannel wavelength demultiplexer in a transmission resonator configuration. <i>IEEE Journal of Quantum Electronics</i> , 2003, 39, 160-165.	1.0	25
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