

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1073515/yu-guo-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Large single-molecule fluorescence enhancements produced by a bowtie nanoantenna. <i>Nature Photonics</i> , 2009 , 3, 654-657	33.9	1550
269	ParityTime-symmetric whispering-gallery microcavities. <i>Nature Physics</i> , 2014 , 10, 394-398	16.2	1394
268	Passive radiative cooling below ambient air temperature under direct sunlight. <i>Nature</i> , 2014 , 515, 540-544	50.4	1183
267	Nanoscale thermal transport. II. 2003-2012. <i>Applied Physics Reviews</i> , 2014 , 1, 011305	17.3	1050
266	Analysis of guided resonances in photonic crystal slabs. <i>Physical Review B</i> , 2002 , 65,	3.3	855
265	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, 569-72	1.8	808
264	Complete optical isolation created by indirect interband photonic transitions. <i>Nature Photonics</i> , 2009 , 3, 91-94	33.9	713
263	Light management for photovoltaics using high-index nanostructures. <i>Nature Materials</i> , 2014 , 13, 451-607	60.7	670
262	Realizing effective magnetic field for photons by controlling the phase of dynamic modulation. <i>Nature Photonics</i> , 2012 , 6, 782-787	33.9	664
261	Radiative human body cooling by nanoporous polyethylene textile. <i>Science</i> , 2016 , 353, 1019-1023	33.3	464
260	Electrically driven nonreciprocity induced by interband photonic transition on a silicon chip. <i>Physical Review Letters</i> , 2012 , 109, 033901	7.4	412
259	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
258	S4 : A free electromagnetic solver for layered periodic structures. <i>Computer Physics Communications</i> , 2012 , 183, 2233-2244	4.2	380
257	Radiative cooling to deep sub-freezing temperatures through a 24-h day-night cycle. <i>Nature Communications</i> , 2016 , 7, 13729	17.4	371
256	Sharp asymmetric line shapes in side-coupled waveguide-cavity systems. <i>Applied Physics Letters</i> , 2002 , 80, 908-910	3.4	353
255	Daytime Radiative Cooling Using Near-Black Infrared Emitters. <i>ACS Photonics</i> , 2017 , 4, 626-630	6.3	333
254	Thermal rectification through vacuum. <i>Physical Review Letters</i> , 2010 , 104, 154301	7.4	321

253	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
252	Robust wireless power transfer using a nonlinear parity-time-symmetric circuit. <i>Nature</i> , 2017 , 546, 387-390	10.4	292
251	Broadband super-Planckian thermal emission from hyperbolic metamaterials. <i>Applied Physics Letters</i> , 2012 , 101, 131106	3.4	252
250	Limitations of nonlinear optical isolators due to dynamic reciprocity. <i>Nature Photonics</i> , 2015 , 9, 388-392	33.9	246
249	Photonic Aharonov-Bohm effect based on dynamic modulation. <i>Physical Review Letters</i> , 2012 , 108, 153901	11	240
248	A dual-mode textile for human body radiative heating and cooling. <i>Science Advances</i> , 2017 , 3, e1700895	14.3	222
247	Modes of Subwavelength Plasmonic Slot Waveguides. <i>Journal of Lightwave Technology</i> , 2007 , 25, 2511-2521	25.21	221
246	Non-reciprocal phase shift induced by an effective magnetic flux for light. <i>Nature Photonics</i> , 2014 , 8, 701-705	33.9	214
245	Nanoporous polyethylene microfibrils for large-scale radiative cooling fabric. <i>Nature Sustainability</i> , 2018 , 1, 105-112	22.1	206
244	Bends and splitters for self-collimated beams in photonic crystals. <i>Applied Physics Letters</i> , 2003 , 83, 3251-3253	32.53	203
243	High-Efficiency Amorphous Silicon Solar Cell on a Periodic Nanocone Back Reflector. <i>Advanced Energy Materials</i> , 2012 , 2, 628-633	21.8	189
242	Spectrally Selective Nanocomposite Textile for Outdoor Personal Cooling. <i>Advanced Materials</i> , 2018 , 30, e1802152	24	181
241	Enhancement of optical absorption in thin-film organic solar cells through the excitation of plasmonic modes in metallic gratings. <i>Applied Physics Letters</i> , 2010 , 96, 133302	3.4	179
240	Optical Fano resonance of an individual semiconductor nanostructure. <i>Nature Materials</i> , 2014 , 13, 471-527	27	173
239	Plasmonic computing of spatial differentiation. <i>Nature Communications</i> , 2017 , 8, 15391	17.4	167
238	A Comprehensive Photonic Approach for Solar Cell Cooling. <i>ACS Photonics</i> , 2017 , 4, 774-782	6.3	166
237	Progress in 2D photonic crystal Fano resonance photonics. <i>Progress in Quantum Electronics</i> , 2014 , 38, 1-74	9.1	165
236	Warming up human body by nanoporous metallized polyethylene textile. <i>Nature Communications</i> , 2017 , 8, 496	17.4	162

235	Input-output formalism for few-photon transport in one-dimensional nanophotonic waveguides coupled to a qubit. <i>Physical Review A</i> , 2010 , 82,	2.6	158
234	Displacement-sensitive photonic crystal structures based on guided resonance in photonic crystal slabs. <i>Applied Physics Letters</i> , 2003 , 82, 1999-2001	3.4	155
233	Near-field radiative cooling of nanostructures. <i>Nano Letters</i> , 2012 , 12, 4546-50	11.5	153
232	Nanophotonic control of thermal radiation for energy applications [Invited]. <i>Optics Express</i> , 2018 , 26, 15995-16021	3.3	151
231	One-way total reflection with one-dimensional magneto-optical photonic crystals. <i>Applied Physics Letters</i> , 2007 , 90, 121133	3.4	148
230	Thermal hyperbolic metamaterials. <i>Optics Express</i> , 2013 , 21, 15014-9	3.3	140
229	Tungsten black absorber for solar light with wide angular operation range. <i>Applied Physics Letters</i> , 2008 , 92, 211107	3.4	133
228	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
227	Applications of Hyperbolic Metamaterial Substrates. <i>Advances in OptoElectronics</i> , 2012 , 2012, 1-9	0.5	119
226	Design of subwavelength superscattering nanospheres. <i>Applied Physics Letters</i> , 2011 , 98, 043101	3.4	116
225	Anti-parity-time symmetry in diffusive systems. <i>Science</i> , 2019 , 364, 170-173	33.3	116
224	Photonic Weyl point in a two-dimensional resonator lattice with a synthetic frequency dimension. <i>Nature Communications</i> , 2016 , 7, 13731	17.4	114
223	Color-preserving daytime radiative cooling. <i>Applied Physics Letters</i> , 2013 , 103, 223902	3.4	113
222	Thermal meta-device in analogue of zero-index photonics. <i>Nature Materials</i> , 2019 , 18, 48-54	27	112
221	Terrestrial radiative cooling: Using the cold universe as a renewable and sustainable energy source. <i>Science</i> , 2020 , 370, 786-791	33.3	110
220	Highly tunable refractive index visible-light metasurface from block copolymer self-assembly. <i>Nature Communications</i> , 2016 , 7, 12911	17.4	109
219	Principal modes in multimode waveguides. <i>Optics Letters</i> , 2005 , 30, 135-7	3	105
218	Hyperbolic Weyl Point in Reciprocal Chiral Metamaterials. <i>Physical Review Letters</i> , 2016 , 117, 057401	7.4	101

217	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	3.8	100
216	Photonic Aharonov-Bohm effect in photon-phonon interactions. <i>Nature Communications</i> , 2014 , 5, 3225	17.4	96
215	Near-field heat transfer between graphene/hBN multilayers. <i>Physical Review B</i> , 2017 , 95,	3.3	95
214	Comment on "Nonreciprocal light propagation in a silicon photonic circuit". <i>Science</i> , 2012 , 335, 38; author reply 38	33.3	93
213	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
212	Numerically exact calculation of electromagnetic heat transfer between a dielectric sphere and plate. <i>Physical Review B</i> , 2011 , 84,	3.3	90
211	Wave physics as an analog recurrent neural network. <i>Science Advances</i> , 2019 , 5, eaay6946	14.3	89
210	A single photonic cavity with two independent physical synthetic dimensions. <i>Science</i> , 2020 , 367, 59-64	33.3	87
209	Adjoint Method and Inverse Design for Nonlinear Nanophotonic Devices. <i>ACS Photonics</i> , 2018 , 5, 4781-4787	16.7	85
208	Towards ultra-thin plasmonic silicon wafer solar cells with minimized efficiency loss. <i>Scientific Reports</i> , 2014 , 4, 4939	4.9	83
207	Photonic thermal management of coloured objects. <i>Nature Communications</i> , 2018 , 9, 4240	17.4	80
206	Rectification of evanescent heat transfer between dielectric-coated and uncoated silicon carbide plates. <i>Journal of Applied Physics</i> , 2012 , 112, 024304	2.5	79
205	Exceptional Contours and Band Structure Design in Parity-Time Symmetric Photonic Crystals. <i>Physical Review Letters</i> , 2016 , 116, 203902	7.4	77
204	Electronically programmable photonic molecule. <i>Nature Photonics</i> , 2019 , 13, 36-40	33.9	77
203	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
202	All-pass transmission or flattop reflection filters using a single photonic crystal slab. <i>Applied Physics Letters</i> , 2004 , 84, 4905-4907	3.4	75
201	Enhancing Near-Field Radiative Heat Transfer with Si-based Metasurfaces. <i>Physical Review Letters</i> , 2017 , 118, 203901	7.4	73
200	Model dispersive media in finite-difference time-domain method with complex-conjugate pole-residue pairs. <i>IEEE Microwave and Wireless Components Letters</i> , 2006 , 16, 119-121	2.6	73

199	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
198	Angle-selective perfect absorption with two-dimensional materials. <i>Light: Science and Applications</i> , 2016 , 5, e16052	16.7	70
197	Optimization of Multilayer Optical Films with a Memetic Algorithm and Mixed Integer Programming. <i>ACS Photonics</i> , 2018 , 5, 684-691	6.3	70
196	Creating an Eco-Friendly Building Coating with Smart Subambient Radiative Cooling. <i>Advanced Materials</i> , 2020 , 32, e1906751	24	68
195	Transforming heat transfer with thermal metamaterials and devices. <i>Nature Reviews Materials</i> , 2021 , 6, 488-507	73.3	68
194	Displacement sensing using evanescent tunneling between guided resonances in photonic crystal slabs. <i>Journal of Applied Physics</i> , 2005 , 98, 033102	2.5	66
193	Graphene surface plasmons at the near-infrared optical regime. <i>Scientific Reports</i> , 2014 , 4, 6559	4.9	63
192	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
191	Complete All-Optical Silica Fiber Isolator via Stimulated Brillouin Scattering. <i>Journal of Lightwave Technology</i> , 2011 , 29, 2267-2275	4	60
190	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
189	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
188	Ultracompact nonreciprocal optical isolator based on guided resonance in a magneto-optical photonic crystal slab. <i>Optics Letters</i> , 2011 , 36, 4254-6	3	57
187	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	3.4	57
186	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
185	Zero-Index Bound States in the Continuum. <i>Physical Review Letters</i> , 2018 , 121, 263901	7.4	55
184	Experimental demonstration of a photonic Aharonov-Bohm effect at radio frequencies. <i>Physical Review B</i> , 2013 , 87,	3.3	54
183	Ultrafast pyroelectric photodetection with on-chip spectral filters. <i>Nature Materials</i> , 2020 , 19, 158-162	27	53
182	Few-photon transport in a waveguide coupled to a pair of colocated two-level atoms. <i>Physical Review A</i> , 2011 , 84,	2.6	52

181	Axion-Field-Enabled Nonreciprocal Thermal Radiation in Weyl Semimetals. <i>Nano Letters</i> , 2020 , 20, 1923-1927	5.7	51
180	Topologically Protected Complete Polarization Conversion. <i>Physical Review Letters</i> , 2017 , 119, 167401	7.4	50
179	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	7.4	50
178	Light trapping in photonic crystals. <i>Energy and Environmental Science</i> , 2014 , 7, 2725	35.4	49
177	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
176	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
175	All-angle negative refraction and evanescent wave amplification using one-dimensional metalodielectric photonic crystals. <i>Applied Physics Letters</i> , 2006 , 89, 151102	3.4	46
174	Experimental band structure spectroscopy along a synthetic dimension. <i>Nature Communications</i> , 2019 , 10, 3122	17.4	45
173	Negative differential thermal conductance through vacuum. <i>Applied Physics Letters</i> , 2012 , 100, 044104	3.4	44
172	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
171	Coupled double-layer Fano resonance photonic crystal filters with lattice-displacement. <i>Applied Physics Letters</i> , 2013 , 103, 241106	3.4	43
170	Broadband Linear-to-Circular Polarization Conversion Enabled by Birefringent Off-Resonance Reflective Metasurfaces. <i>Physical Review Letters</i> , 2019 , 123, 237401	7.4	43
169	Optical Absorption Enhancement in Freestanding GaAs Thin Film Nanopyramid Arrays. <i>Advanced Energy Materials</i> , 2012 , 2, 1254-1260	21.8	42
168	Integrated near-field thermo-photovoltaics for heat recycling. <i>Nature Communications</i> , 2020 , 11, 2545	17.4	42
167	Near-Field Enhanced Negative Luminescent Refrigeration. <i>Physical Review Applied</i> , 2016 , 6,	4.3	40
166	Nonvolatile bistable all-optical switch from mechanical buckling. <i>Applied Physics Letters</i> , 2011 , 98, 241104	3.4	40
165	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
164	Subwavelength angle-sensing photodetectors inspired by directional hearing in small animals. <i>Nature Nanotechnology</i> , 2018 , 13, 1143-1147	28.7	40

163	Theory of many-body radiative heat transfer without the constraint of reciprocity. <i>Physical Review B</i> , 2018 , 97,	3.3	38
162	Light Guiding by Effective Gauge Field for Photons. <i>Physical Review X</i> , 2014 , 4,	9.1	37
161	Creating large bandwidth line defects by embedding dielectric waveguides into photonic crystal slabs. <i>Applied Physics Letters</i> , 2002 , 81, 3915-3917	3.4	37
160	Inverse Design of Photonic Crystals through Automatic Differentiation. <i>ACS Photonics</i> , 2020 , 7, 1729-1743	4.3	36
159	Topological optical differentiator. <i>Nature Communications</i> , 2021 , 12, 680	17.4	36
158	Metamaterials for radiative sky cooling. <i>National Science Review</i> , 2018 , 5, 132-133	10.8	35
157	Thermal excitation of plasmons for near-field thermophotovoltaics. <i>Applied Physics Letters</i> , 2014 , 105, 073903	3.4	35
156	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,	2.6	35
155	Tutorial on Electromagnetic Nonreciprocity and its Origins. <i>Proceedings of the IEEE</i> , 2020 , 108, 1684-1727	14.3	35
154	Generating arbitrary topological windings of a non-Hermitian band. <i>Science</i> , 2021 , 371, 1240-1245	33.3	35
153	Synthetic space with arbitrary dimensions in a few rings undergoing dynamic modulation. <i>Physical Review B</i> , 2018 , 97,	3.3	34
152	Three-Dimensional Printable Nanoporous Polymer Matrix Composites for Daytime Radiative Cooling. <i>Nano Letters</i> , 2021 , 21, 1493-1499	11.5	34
151	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
150	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, 103104	3.4	33
149	Wannier basis design and optimization of a photonic crystal waveguide crossing. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 1875-1877	2.2	33
148	Gate-Tunable Near-Field Heat Transfer. <i>ACS Photonics</i> , 2019 , 6, 709-719	6.3	30
147	Absence of unidirectionally propagating surface plasmon-polaritons at nonreciprocal metal-dielectric interfaces. <i>Nature Communications</i> , 2020 , 11, 674	17.4	29
146	Electroluminescent refrigeration by ultra-efficient GaAs light-emitting diodes. <i>Journal of Applied Physics</i> , 2018 , 123, 173104	2.5	29

145	Semiconductor-based Multilayer Selective Solar Absorber for Unconcentrated Solar Thermal Energy Conversion. <i>Scientific Reports</i> , 2017 , 7, 5362	4.9	29
144	Achieving Arbitrary Control over Pairs of Polarization States Using Complex Birefringent Metamaterials. <i>Physical Review Letters</i> , 2017 , 118, 253902	7.4	29
143	Subambient daytime radiative cooling textile based on nanoprocessed silk. <i>Nature Nanotechnology</i> , 2021 ,	28.7	28
142	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
141	Integrated Nonmagnetic Optical Isolators Based on Photonic Transitions \hat{A}^{\ast} . <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010 , 16, 459-466	3.8	27
140	Higher-order topological insulators in synthetic dimensions. <i>Light: Science and Applications</i> , 2020 , 9, 131	16.7	27
139	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
138	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
137	Homotopy characterization of non-Hermitian Hamiltonians. <i>Physical Review B</i> , 2020 , 101,	3.3	26
136	Sub-Wavelength Passive Optical Isolators Using Photonic Structures Based on Weyl Semimetals. <i>Advanced Optical Materials</i> , 2020 , 8, 2000100	8.1	26
135	Experimental demonstration of acoustic semimetal with topologically charged nodal surface. <i>Science Advances</i> , 2020 , 6, eaav2360	14.3	24
134	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
133	Quantum critical coupling conditions for zero single-photon transmission through a coupled atom-resonator-waveguide system. <i>Physical Review A</i> , 2010 , 82,	2.6	23
132	Planar immersion lens with metasurfaces. <i>Physical Review B</i> , 2015 , 91,	3.3	22
131	Meron Spin Textures in Momentum Space. <i>Physical Review Letters</i> , 2020 , 124, 106103	7.4	22
130	Retarded Charge-Carrier Recombination in Photoelectrochemical Cells from Plasmon-Induced Resonance Energy Transfer. <i>Advanced Energy Materials</i> , 2020 , 10, 2000570	21.8	22
129	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
128	Reflectionless multichannel wavelength demultiplexer in a transmission resonator configuration. <i>IEEE Journal of Quantum Electronics</i> , 2003 , 39, 160-165	2	22

127	Direction-dependent parity-time phase transition and nonreciprocal amplification with dynamic gain-loss modulation. <i>Physical Review A</i> , 2019 , 99,	2.6	22
126	Broadening Near-Field Emission for Performance Enhancement in Thermophotovoltaics. <i>Nano Letters</i> , 2020 , 20, 1654-1661	11.5	21
125	Compact Incoherent Image Differentiation with Nanophotonic Structures. <i>ACS Photonics</i> , 2020 , 7, 338-343	6.3	21
124	Anti-Hermitian photodetector facilitating efficient subwavelength photon sorting. <i>Nature Communications</i> , 2018 , 9, 316	17.4	20
123	Forward-Mode Differentiation of Maxwell's Equations. <i>ACS Photonics</i> , 2019 , 6, 3010-3016	6.3	20
122	Analog of superradiant emission in thermal emitters. <i>Physical Review B</i> , 2015 , 92,	3.3	20
121	Resonance fluorescence in a waveguide geometry. <i>Physical Review A</i> , 2012 , 85,	2.6	20
120	Fluctuational electrodynamics of hyperbolic metamaterials. <i>Journal of Applied Physics</i> , 2014 , 115, 234306.5	6.5	19
119	Deep subwavelength plasmonic waveguide switch in double graphene layer structure. <i>Applied Physics Letters</i> , 2013 , 103, 233107	3.4	19
118	Photonics and thermodynamics concepts in radiative cooling. <i>Nature Photonics</i> ,	33.9	19
117	Inverse Design of Lightweight Broadband Reflector for Relativistic Lightsail Propulsion. <i>ACS Photonics</i> , 2020 , 7, 2350-2355	6.3	19
116	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
115	High-Temperature Polarization-Free III-Nitride Solar Cells with Self-Cooling Effects. <i>ACS Photonics</i> , 2019 , 6, 2096-2103	6.3	18
114	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
113	Temperature dependence of surface phonon polaritons from a quartz grating. <i>Journal of Applied Physics</i> , 2011 , 110, 043517	2.5	17
112	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
111	Theory for Twisted Bilayer Photonic Crystal Slabs. <i>Physical Review Letters</i> , 2021 , 126, 136101	7.4	17
110	Quantum Entanglement and Modulation Enhancement of Free-Electron-Bound-Electron Interaction. <i>Physical Review Letters</i> , 2021 , 126, 233402	7.4	17

109	Spatial coherence of the thermal electromagnetic field in the vicinity of a dielectric slab. <i>Physical Review E</i> , 2007 , 76, 016601	2.4	16
108	Nonreciprocity in Bianisotropic Systems with Uniform Time Modulation. <i>Physical Review Letters</i> , 2020 , 125, 266102	7.4	16
107	Radiative Thermal Router Based on Tunable Magnetic Weyl Semimetals. <i>ACS Photonics</i> , 2020 , 7, 3257-3263	6.3	15
106	Arbitrary Polarization Conversion with a Photonic Crystal Slab. <i>Advanced Optical Materials</i> , 2019 , 7, 1801853	1.5	15
105	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
104	Analytical treatment of near-field electromagnetic heat transfer at the nanoscale. <i>Physical Review B</i> , 2015 , 92,	3.3	14
103	PT-Symmetric Topological Edge-Gain Effect. <i>Physical Review Letters</i> , 2020 , 125, 033603	7.4	14
102	Nighttime Radiative Cooling for Water Harvesting from Solar Panels. <i>ACS Photonics</i> , 2021 , 8, 269-275	6.3	14
101	Three-Dimensional Chiral Lattice Fermion in Floquet Systems. <i>Physical Review Letters</i> , 2018 , 121, 196401	7.4	14
100	Theory of Half-Space Light Absorption Enhancement for Leaky Mode Resonant Nanowires. <i>Nano Letters</i> , 2015 , 15, 5513-8	11.5	13
99	Plasmonic Circuit Theory for Multiresonant Light Funneling to a Single Spatial Hot Spot. <i>Nano Letters</i> , 2016 , 16, 5764-9	11.5	13
98	Highly Tailored Computational Electromagnetics Methods for Nanophotonic Design and Discovery. <i>Proceedings of the IEEE</i> , 2013 , 101, 484-493	14.3	13
97	Local density of states of chiral Hall edge states in gyrotropic photonic clusters. <i>Physical Review B</i> , 2013 , 88,	3.3	13
96	Generalized cluster decomposition principle illustrated in waveguide quantum electrodynamics. <i>Physical Review A</i> , 2017 , 95,	2.6	13
95	Mapping local optical densities of states in silicon photonic structures with nanoscale electron spectroscopy. <i>Physical Review B</i> , 2010 , 81,	3.3	13
94	Pulse shortening in an actively mode-locked laser with parity-time symmetry. <i>APL Photonics</i> , 2018 , 3, 086103	5.2	13
93	Fundamental Limits of the Dew-Harvesting Technology. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2020 , 24, 43-52	3.7	12
92	Nonreciprocal Photonics Without Magneto-Optics. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 1948-1952	3.8	12

91	Singular evanescent wave resonances in moving media. <i>Optics Express</i> , 2014 , 22, 26193-202	3.3	12
90	Giant non-equilibrium vacuum friction: role of singular evanescent wave resonances in moving media. <i>Journal of Optics (United Kingdom)</i> , 2014 , 16, 114023	1.7	12
89	Inverse Design of Metasurfaces Based on Coupled-Mode Theory and Adjoint Optimization. <i>ACS Photonics</i> , 2021 , 8, 2265-2273	6.3	12
88	PT-symmetric spectral singularity and negative-frequency resonance. <i>Physical Review A</i> , 2017 , 95,	2.6	11
87	Nodal chain semimetal in geometrically frustrated systems. <i>Physical Review B</i> , 2019 , 99,	3.3	11
86	An Ultra-Compact Circulator Using Two-Dimensional Magneto-Optical Photonic Crystals. <i>Journal of the Magnetics Society of Japan</i> , 2006 , 30, 641-645		11
85	Topological complex-energy braiding of non-Hermitian bands. <i>Nature</i> , 2021 , 598, 59-64	50.4	11
84	Experimental Demonstration of Dynamical Input Isolation in Nonadiabatically Modulated Photonic Cavities. <i>ACS Photonics</i> , 2019 , 6, 162-169	6.3	10
83	Photonic Refrigeration from Time-Modulated Thermal Emission. <i>Physical Review Letters</i> , 2020 , 124, 077402	4.2	9
82	Nonreciprocal radiative heat transfer between two planar bodies. <i>Physical Review B</i> , 2020 , 101,	3.3	9
81	Protecting ice from melting under sunlight via radiative cooling.. <i>Science Advances</i> , 2022 , 8, eabj9756	14.3	9
80	Nonequilibrium Casimir Force with a Nonzero Chemical Potential for Photons. <i>Physical Review Letters</i> , 2016 , 117, 267401	7.4	9
79	Dynamic band structure measurement in the synthetic space. <i>Science Advances</i> , 2021 , 7,	14.3	9
78	Nonreciprocal infrared absorption via resonant magneto-optical coupling to InAs.. <i>Science Advances</i> , 2022 , 8, eabm4308	14.3	9
77	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
76	Violating Kirchhoff's Law of Thermal Radiation in Semitransparent Structures. <i>ACS Photonics</i> , 2021 , 8, 2417-2424	6.3	8
75	Reaching the Ultimate Efficiency of Solar Energy Harvesting with a Nonreciprocal Multijunction Solar Cell.. <i>Nano Letters</i> , 2021 ,	11.5	8
74	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

73	Capturing light pulses into a pair of coupled photonic crystal cavities. <i>Applied Physics Letters</i> , 2009 , 94, 231109	3.4	7
72	Arbitrary linear transformations for photons in the frequency synthetic dimension. <i>Nature Communications</i> , 2021 , 12, 2401	17.4	7
71	Slanted gold mushroom array: a switchable bi/tridirectional surface plasmon polariton splitter. <i>Nanoscale</i> , 2016 , 8, 15505-13	7.7	7
70	Generate tensor network state by sequential single-photon scattering in waveguide QED systems. <i>APL Photonics</i> , 2018 , 3, 116102	5.2	7
69	Configurable Phase Transitions in a Topological Thermal Material. <i>Physical Review Letters</i> , 2021 , 127, 105901	7.4	7
68	Synthetic gauge potential and effective magnetic field in a Raman medium undergoing molecular modulation. <i>Physical Review A</i> , 2017 , 95,	2.6	6
67	High Reflection from a One-Dimensional Array of Graphene Nanoribbons. <i>ACS Photonics</i> , 2019 , 6, 339-344	4.3	6
66	Universal programmable photonic architecture for quantum information processing. <i>Physical Review A</i> , 2020 , 101,	2.6	6
65	Deep-Subwavelength Thermal Switch via Resonant Coupling in Monolayer Hexagonal Boron Nitride. <i>Physical Review Applied</i> , 2021 , 15,	4.3	6
64	Self-Focused Thermal Emission and Holography Realized by Mesoscopic Thermal Emitters. <i>ACS Photonics</i> , 2021 , 8, 497-504	6.3	6
63	Structured 3D linear space-time light bullets by nonlocal nanophotonics. <i>Light: Science and Applications</i> , 2021 , 10, 160	16.7	6
62	SpaceTime Metasurfaces for Power Combining of Waves. <i>ACS Photonics</i> ,	6.3	6
61	Analysis of an anti-reflecting nanowire transparent electrode for solar cells. <i>Journal of Applied Physics</i> , 2017 , 121, 113109	2.5	5
60	Fano interference in two-photon transport. <i>Physical Review A</i> , 2016 , 94,	2.6	5
59	Design of a nanoelectromechanical high-index-contrast guided-wave optical switch for single-mode operation at 1.55 μm . <i>IEEE Photonics Technology Letters</i> , 2003 , 15, 1207-1209	2.2	5
58	Theoretical constraints on reciprocal and non-reciprocal many-body radiative heat transfer. <i>Physical Review B</i> , 2020 , 102,	3.3	5
57	Three-dimensional Random Dielectric Colloid Metamaterial with Giant Isotropic Optical Activity. <i>Laser and Photonics Reviews</i> , 2020 , 14, 2000151	8.3	5
56	Wide wavelength-tunable narrow-band thermal radiation from moiré patterns. <i>Applied Physics Letters</i> , 2021 , 118, 131111	3.4	5

55	Perfect RGB-IR Color Routers for Sub-Wavelength Size CMOS Image Sensor Pixels. <i>Advanced Photonics Research</i> , 2021 , 2, 2000048	1.9	5
54	Synthetic frequency dimensions in dynamically modulated ring resonators. <i>APL Photonics</i> , 2021 , 6, 071102	3.2	5
53	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
52	Nonreciprocal Metamaterial Obeying Time-Reversal Symmetry. <i>Physical Review Letters</i> , 2020 , 124, 257403	4.4	4
51	Optical Absorption Enhancement: Optical Absorption Enhancement in Freestanding GaAs Thin Film Nanopyramid Arrays (Adv. Energy Mater. 10/2012). <i>Advanced Energy Materials</i> , 2012 , 2, 1150-1150	21.8	4
50	Alice strings in non-Hermitian systems. <i>Physical Review Research</i> , 2020 , 2,	3.9	4
49	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
48	Rare Earth Doped Optical Fibers with Multi-section Core. <i>IScience</i> , 2019 , 22, 423-429	6.1	4
47	Inverse Design of Plasma Metamaterial Devices for Optical Computing. <i>Physical Review Applied</i> , 2021 , 16,	4.3	4
46	Topological dissipation in a time-multiplexed photonic resonator network. <i>Nature Physics</i> ,	16.2	4
45	Creating anyons from photons using a nonlinear resonator lattice subject to dynamic modulation. <i>Physical Review A</i> , 2017 , 96,	2.6	3
44	Size Scaling of Photonic Crystal Surface Emitting Lasers on Silicon Substrates. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-6	1.8	3
43	Enhancing or suppressing self-focusing in nonlinear photonic crystals. <i>Applied Physics Letters</i> , 2007 , 90, 161124	3.4	3
42	Wide bandwidth, large, and tunable polarization mode dispersions in multilayered omnidirectional reflectors. <i>Applied Physics Letters</i> , 2002 , 81, 187-189	3.4	3
41	Two-level quantum system as a macroscopic scatterer for ultraconfined two-dimensional photonic modes. <i>Physical Review A</i> , 2020 , 102,	2.6	3
40	Photonic Modal Circulator Using Temporal Refractive-Index Modulation with Spatial Inversion Symmetry. <i>Physical Review Letters</i> , 2021 , 126, 193901	7.4	3
39	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
38	Direct Object Recognition Without Line-Of-Sight Using Optical Coherence 2019 ,		3

37	Tunable Frequency Filter Based on Twisted Bilayer Photonic Crystal Slabs. <i>ACS Photonics</i> , 2022 , 9, 800-805	3
36	Thermodynamics of Light Management in Near-Field Thermophotovoltaics. <i>Physical Review Applied</i> , 2021 , 16,	4.3 3
35	Exergy in near-field electromagnetic heat transfer. <i>Journal of Applied Physics</i> , 2017 , 122, 124306	2.5 2
34	Penetration Depth Reduction with Plasmonic Metafilms. <i>ACS Photonics</i> , 2019 , 6, 2049-2055	6.3 2
33	Passive cooling of solar cells with a comprehensive photonic approach 2017 ,	2
32	Design and growth of III-V nanowire solar cell arrays on low cost substrates 2010 ,	2
31	Efficient treatment of dispersive electric permittivity in finite-difference time-domain simulations of advanced photonic devices 2010 ,	2
30	Subwavelength plasmonic waveguide structures based on slots in thin metal films 2006 ,	2
29	Enlarging the bandwidth of nanoscale propagating plasmonic modes in deep-subwavelength cylindrical holes. <i>Applied Physics Letters</i> , 2007 , 91, 181118	3.4 2
28	Operating modes of dual-grating dielectric laser accelerators. <i>Physical Review Accelerators and Beams</i> , 2020 , 23,	1.8 2
27	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
26	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
25	Doubly-Resonant Photonic Crystal Cavities for Efficient Second-Harmonic Generation in III-V Semiconductors. <i>Nanomaterials</i> , 2021 , 11,	5.4 2
24	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
23	Light trapping in photonic structures. <i>Semiconductors and Semimetals</i> , 2019 , 45-91	0.6 1
22	Efficient and robust wireless power transfer based on parity-time symmetry 2020 ,	1
21	Broadband Control of Topological Nodes in Electromagnetic Fields. <i>Physical Review Letters</i> , 2018 , 120, 193903	7.4 1
20	Complete power concentration into a single waveguide in large-scale waveguide array lenses. <i>Scientific Reports</i> , 2014 , 4, 6635	4.9 1

19	Photonic one-way edge mode and slow light application 2010 ,		1
18	Deep-subwavelength cylindrical waveguides with extremely low cutoff frequency 2008 ,		1
17	Extraordinary Transmission Through A Poly-SiC Membrane with Subwavelength Hole Arrays 2007 ,		1
16	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
15	Single-Photon Transport in a Topological Waveguide from a Dynamically Modulated Photonic System. <i>Physical Review Applied</i> , 2020 , 14,	4.3	1
14	Single Gyrotropic Particle as a Heat Engine. <i>ACS Photonics</i> , 2021 , 8, 1623-1629	6.3	1
13	High-performance photonic transformers for DC voltage conversion. <i>Nature Communications</i> , 2021 , 12, 4684	17.4	1
12	Scaling Challenges in High Power Photonic Crystal Surface-Emitting Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2022 , 1-1	2	1
11	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
10	Control of non-equilibrium Casimir force. <i>Applied Physics Letters</i> , 2021 , 118, 144001	3.4	0
9	Topological Materials for Functional Optoelectronic Devices. <i>Advanced Functional Materials</i> , 2110655	15.6	0
8	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	
7	Condition for Perfect Resonant Antireflection. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1788, 7-12		
6	Two-dimensional Magneto-photonic Crystal Circulators. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 846, DD12.9.1		
5	Compact All Pass Transmission Filter using Photonic Crystal Slabs. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 817, 55		
4	Two Dimensional Photonic Crystal Modes and Resonances in Three-dimensional Structures. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 694, 1		
3	Two Dimensional Photonic Crystal Modes and Resonances in Three-dimensional Structures. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 692, 1		
2	Flashing light with nanophotonics.. <i>Science</i> , 2022 , 375, 822-823	33.3	

- 1 Universal Behavior of the Scattering Matrix Near Thresholds in Photonics.. *Physical Review Letters*, **2021**, 127, 277401 7.4