

# Shanhui Fan

## 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.

268  
papers

25,144  
citations

79  
h-index

155  
g-index

300  
ext. papers

32,795  
ext. citations

10  
avg, IF

7.82  
L-index

#	Paper	IF	Citations
268	Lineshape study of optical force spectra on resonant structures.. <i>Optics Express</i> , <b>2022</b> , 30, 6142-6160	3.3	0
267	Efficient method for accelerating line searches in adjoint optimization of photonic devices by combining Schur complement domain decomposition and Born series expansions.. <i>Optics Express</i> , <b>2022</b> , 30, 6413-6424	3.3	0
266	Protecting ice from melting under sunlight via radiative cooling.. <i>Science Advances</i> , <b>2022</b> , 8, eabj9756	14.3	9
265	Prospects and applications of photonic neural networks. <i>Advances in Physics: X</i> , <b>2022</b> , 7,	5.1	6
264	Tunable Frequency Filter Based on Twisted Bilayer Photonic Crystal Slabs. <i>ACS Photonics</i> , <b>2022</b> , 9, 800-805	3.3	3
263	Spectral emissivity modeling in multi-resonant systems using coupled-mode theory.. <i>Optics Express</i> , <b>2022</b> , 30, 9463-9472	3.3	0
262	Observation of Weyl exceptional rings in thermal diffusion.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2110018119	11.5	1
261	Nighttime electric power generation at a density of 50 mW/m <sup>2</sup> via radiative cooling of a photovoltaic cell. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 143901	3.4	1
260	Concentrated radiative cooling and its constraint from reciprocity.. <i>Optics Express</i> , <b>2022</b> , 30, 275-285	3.3	1
259	Nonreciprocal infrared absorption via resonant magneto-optical coupling to InAs.. <i>Science Advances</i> , <b>2022</b> , 8, eabm4308	14.3	9
258	Temporal modulation brings metamaterials into new era. <i>Light: Science and Applications</i> , <b>2022</b> , 11,	16.7	1
257	Exterior tuning and switching of non-equilibrium Casimir force. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2021</b> , 38, 151	1.7	1
256	Adaptive four-level modeling of laser cooling of solids. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 181107	3.4	0
255	Subambient daytime radiative cooling textile based on nanoprocessed silk. <i>Nature Nanotechnology</i> , <b>2021</b> ,	28.7	28
254	Shockley-Queisser analysis of the temperature-efficiency correlation of solar cells in the presence of non-radiative heat transfer: erratum. <i>Optics Express</i> , <b>2021</b> , 29, 39173	3.3	0
253	Topological complex-energy braiding of non-Hermitian bands. <i>Nature</i> , <b>2021</b> , 598, 59-64	50.4	11
252	Integrated cooling (i-Cool) textile of heat conduction and sweat transportation for personal perspiration management. <i>Nature Communications</i> , <b>2021</b> , 12, 6122	17.4	17

251	Electron Pulse Compression with Optical Beat Note. <i>Physical Review Letters</i> , <b>2021</b> , 127, 164802	7.4	1
250	A perspective on the pathway toward full wave simulation of large area metalenses. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 150502	3.4	3
249	Transforming heat transfer with thermal metamaterials and devices. <i>Nature Reviews Materials</i> , <b>2021</b> , 6, 488-507	73.3	68
248	Generating arbitrary topological windings of a non-Hermitian band. <i>Science</i> , <b>2021</b> , 371, 1240-1245	33.3	35
247	Nondissipative non-Hermitian dynamics and exceptional points in coupled optical parametric oscillators. <i>Optica</i> , <b>2021</b> , 8, 415	8.6	6
246	Wide wavelength-tunable narrow-band thermal radiation from moiré patterns. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 131111	3.4	5
245	Theory for Twisted Bilayer Photonic Crystal Slabs. <i>Physical Review Letters</i> , <b>2021</b> , 126, 136101	7.4	17
244	Arbitrary linear transformations for photons in the frequency synthetic dimension. <i>Nature Communications</i> , <b>2021</b> , 12, 2401	17.4	7
243	Correction to Adjoint Method and Inverse Design for Nonlinear Nanophotonic Devices <i>ACS Photonics</i> , <b>2021</b> , 8, 1505-1505	6.3	1
242	Control of non-equilibrium Casimir force. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 144001	3.4	0
241	Effect of Coulomb interaction on the transient optical response of electrons in field-coupled quantum dots. <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	2
240	Single Gyrotropic Particle as a Heat Engine. <i>ACS Photonics</i> , <b>2021</b> , 8, 1623-1629	6.3	1
239	Photonic Modal Circulator Using Temporal Refractive-Index Modulation with Spatial Inversion Symmetry. <i>Physical Review Letters</i> , <b>2021</b> , 126, 193901	7.4	3
238	Deep-Subwavelength Thermal Switch via Resonant Coupling in Monolayer Hexagonal Boron Nitride. <i>Physical Review Applied</i> , <b>2021</b> , 15,	4.3	6
237	Quantum Entanglement and Modulation Enhancement of Free-Electron-Bound-Electron Interaction. <i>Physical Review Letters</i> , <b>2021</b> , 126, 233402	7.4	17
236	Isotropic topological second-order spatial differentiator operating in transmission mode. <i>Optics Letters</i> , <b>2021</b> , 46, 3247-3250	3	7
235	Controllable finite ultra-narrow quality-factor peak in a perturbed Dirac-cone band structure of a photonic-crystal slab. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 031105	3.4	4
234	Perfect RGB-IR Color Routers for Sub-Wavelength Size CMOS Image Sensor Pixels. <i>Advanced Photonics Research</i> , <b>2021</b> , 2, 2000048	1.9	5

233	Scalable and hierarchically designed polymer film as a selective thermal emitter for high-performance all-day radiative cooling. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 153-158	28.7	132
232	Nighttime Radiative Cooling for Water Harvesting from Solar Panels. <i>ACS Photonics</i> , <b>2021</b> , 8, 269-275	6.3	14
231	Photonic arbitrary linear transformations in the frequency synthetic dimension <b>2021</b> ,		1
230	Self-Focused Thermal Emission and Holography Realized by Mesoscopic Thermal Emitters. <i>ACS Photonics</i> , <b>2021</b> , 8, 497-504	6.3	6
229	Dynamic band structure measurement in the synthetic space. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	9
228	Three-Dimensional Printable Nanoporous Polymer Matrix Composites for Daytime Radiative Cooling. <i>Nano Letters</i> , <b>2021</b> , 21, 1493-1499	11.5	34
227	Topological optical differentiator. <i>Nature Communications</i> , <b>2021</b> , 12, 680	17.4	36
226	Atomic-Scale Control of Coherent Thermal Radiation. <i>ACS Photonics</i> , <b>2021</b> , 8, 872-878	6.3	4
225	Inverse Design of Plasma Metamaterial Devices for Optical Computing. <i>Physical Review Applied</i> , <b>2021</b> , 16,	4.3	4
224	Synthetic frequency dimensions in dynamically modulated ring resonators. <i>APL Photonics</i> , <b>2021</b> , 6, 071102	9.2	5
223	Inverse Design of Metasurfaces Based on Coupled-Mode Theory and Adjoint Optimization. <i>ACS Photonics</i> , <b>2021</b> , 8, 2265-2273	6.3	12
222	Shockley-Queisser analysis of the temperature-efficiency correlation of solar cells in the presence of non-radiative heat transfer. <i>Optics Express</i> , <b>2021</b> , 29, 27554-27561	3.3	2
221	Violating Kirchhoff's Law of Thermal Radiation in Semitransparent Structures. <i>ACS Photonics</i> , <b>2021</b> , 8, 2417-2424	6.3	8
220	Generation of guided space-time wave packets using multilevel indirect photonic transitions in integrated photonics. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	2
219	Configurable Phase Transitions in a Topological Thermal Material. <i>Physical Review Letters</i> , <b>2021</b> , 127, 105901	7.4	7
218	Structured 3D linear space-time light bullets by nonlocal nanophotonics. <i>Light: Science and Applications</i> , <b>2021</b> , 10, 160	16.7	6
217	High-performance photonic transformers for DC voltage conversion. <i>Nature Communications</i> , <b>2021</b> , 12, 4684	17.4	1
216	Nontrivial point-gap topology and non-Hermitian skin effect in photonic crystals. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	4

215	Thermodynamics of Light Management in Near-Field Thermophotovoltaics. <i>Physical Review Applied</i> , <b>2021</b> , 16,	4.3	3
214	Universal Behavior of the Scattering Matrix Near Thresholds in Photonics.. <i>Physical Review Letters</i> , <b>2021</b> , 127, 277401	7.4	
213	Reaching the Ultimate Efficiency of Solar Energy Harvesting with a Nonreciprocal Multijunction Solar Cell.. <i>Nano Letters</i> , <b>2021</b> ,	11.5	8
212	Efficient and robust wireless power transfer based on parity-time symmetry <b>2020</b> ,		1
211	Homotopy characterization of non-Hermitian Hamiltonians. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	26
210	Inverse Design of Photonic Crystals through Automatic Differentiation. <i>ACS Photonics</i> , <b>2020</b> , 7, 1729-1741	13	36
209	Meron Spin Textures in Momentum Space. <i>Physical Review Letters</i> , <b>2020</b> , 124, 106103	7.4	22
208	Inverse-designed non-reciprocal pulse router for chip-based LiDAR. <i>Nature Photonics</i> , <b>2020</b> , 14, 369-374	33.9	73
207	Experimental demonstration of acoustic semimetal with topologically charged nodal surface. <i>Science Advances</i> , <b>2020</b> , 6, eaav2360	14.3	24
206	Nonreciprocal Metamaterial Obeying Time-Reversal Symmetry. <i>Physical Review Letters</i> , <b>2020</b> , 124, 257403	7.4	4
205	Fundamental Limits of the Dew-Harvesting Technology. <i>Nanoscale and Microscale Thermophysical Engineering</i> , <b>2020</b> , 24, 43-52	3.7	12
204	Photonic Refrigeration from Time-Modulated Thermal Emission. <i>Physical Review Letters</i> , <b>2020</b> , 124, 077402	7.4	9
203	Axion-Field-Enabled Nonreciprocal Thermal Radiation in Weyl Semimetals. <i>Nano Letters</i> , <b>2020</b> , 20, 1923-1927	11.5	51
202	Nonreciprocal radiative heat transfer between two planar bodies. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	9
201	Compact Incoherent Image Differentiation with Nanophotonic Structures. <i>ACS Photonics</i> , <b>2020</b> , 7, 338-343	13	21
200	Absence of unidirectionally propagating surface plasmon-polaritons at nonreciprocal metal-dielectric interfaces. <i>Nature Communications</i> , <b>2020</b> , 11, 674	17.4	29
199	Thermodynamic limits for simultaneous energy harvesting from the hot sun and cold outer space. <i>Light: Science and Applications</i> , <b>2020</b> , 9, 68	16.7	33
198	Universal programmable photonic architecture for quantum information processing. <i>Physical Review A</i> , <b>2020</b> , 101,	2.6	6

197	Nonreciprocity in Bianisotropic Systems with Uniform Time Modulation. <i>Physical Review Letters</i> , <b>2020</b> , 125, 266102	7.4	16
196	Maximal nighttime electrical power generation via optimal radiative cooling. <i>Optics Express</i> , <b>2020</b> , 28, 25460-25470	3.3	20
195	Determining the optimal learning rate in gradient-based electromagnetic optimization using the Shanks transformation in the Lippmann-Schwinger formalism. <i>Optics Letters</i> , <b>2020</b> , 45, 595-598	3	2
194	Nonreciprocal Devices in Silicon Photonics. <i>Optics and Photonics News</i> , <b>2020</b> , 31, 38	1.9	1
193	Squeeze free space with nonlocal flat optics. <i>Optica</i> , <b>2020</b> , 7, 1133	8.6	14
192	Design of a multichannel photonic crystal dielectric laser accelerator. <i>Photonics Research</i> , <b>2020</b> , 8, 1586-6	6	5
191	Creating locally interacting Hamiltonians in the synthetic frequency dimension for photons. <i>Photonics Research</i> , <b>2020</b> , 8, B8	6	9
190	Scattering of a single plasmon polariton by multiple atoms for in-plane control of light. <i>Nanophotonics</i> , <b>2020</b> , 10, 579-587	6.3	0
189	CHEMICAL POTENTIAL OF PHOTONS AND ITS IMPLICATIONS FOR CONTROLLING RADIATIVE HEAT TRANSFER. <i>Annual Review of Heat Transfer</i> , <b>2020</b> , 23, 397-431	2.7	6
188	Controlling the dopant profile for SRH suppression at low current densities in $\lambda$ 330 nm GaInAsP light-emitting diodes. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 203503	3.4	1
187	Integrated near-field thermo-photovoltaics for heat recycling. <i>Nature Communications</i> , <b>2020</b> , 11, 2545	17.4	42
186	A single photonic cavity with two independent physical synthetic dimensions. <i>Science</i> , <b>2020</b> , 367, 59-64	33.3	87
185	Radiative Thermal Router Based on Tunable Magnetic Weyl Semimetals. <i>ACS Photonics</i> , <b>2020</b> , 7, 3257-3263	6.3	15
184	Integrated Nonreciprocal Photonic Devices With Dynamic Modulation. <i>Proceedings of the IEEE</i> , <b>2020</b> , 108, 1759-1784	14.3	13
183	Higher-order topological insulators in synthetic dimensions. <i>Light: Science and Applications</i> , <b>2020</b> , 9, 131	16.7	27
182	Single-Photon Transport in a Topological Waveguide from a Dynamically Modulated Photonic System. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	1
181	Inference in artificial intelligence with deep optics and photonics. <i>Nature</i> , <b>2020</b> , 588, 39-47	50.4	114
180	Terrestrial radiative cooling: Using the cold universe as a renewable and sustainable energy source. <i>Science</i> , <b>2020</b> , 370, 786-791	33.3	110

179	Theoretical constraints on reciprocal and non-reciprocal many-body radiative heat transfer. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	5
178	Inverse Design of Lightweight Broadband Reflector for Relativistic Lightsail Propulsion. <i>ACS Photonics</i> , <b>2020</b> , 7, 2350-2355	6.3	19
177	Tutorial on Electromagnetic Nonreciprocity and its Origins. <i>Proceedings of the IEEE</i> , <b>2020</b> , 108, 1684-1727	14.3	35
176	Creating an Eco-Friendly Building Coating with Smart Subambient Radiative Cooling. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906751	24	68
175	Experimental demonstration of silicon photonic devices optimized by a flexible and deterministic pixel-by-pixel technique. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 071104	3.4	2
174	Beating absorption in solid-state high harmonics. <i>Communications Physics</i> , <b>2020</b> , 3,	5.4	6
173	Reprogrammable Electro-Optic Nonlinear Activation Functions for Optical Neural Networks. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2020</b> , 26, 1-12	3.8	60
172	Robust and efficient wireless power transfer using a switch-mode implementation of a nonlinear parity-time symmetric circuit. <i>Nature Electronics</i> , <b>2020</b> , 3, 273-279	28.4	27
171	Sub-Wavelength Passive Optical Isolators Using Photonic Structures Based on Weyl Semimetals. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000100	8.1	26
170	Generating Light from Darkness. <i>Joule</i> , <b>2019</b> , 3, 2679-2686	27.8	73
169	High Reflection from a One-Dimensional Array of Graphene Nanoribbons. <i>ACS Photonics</i> , <b>2019</b> , 6, 339-344	4.3	6
168	Reconfigurable Photonic Circuit for Controlled Power Delivery to Laser-Driven Accelerators on a Chip. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	5
167	Self-sustaining thermophotonic circuits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 11596-11601	11.5	4
166	Experimental demonstration of energy harvesting from the sky using the negative illumination effect of a semiconductor photodiode. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 161102	3.4	23
165	Connection of temporal coupled-mode-theory formalisms for a resonant optical system and its time-reversal conjugate. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	21
164	Photonic Gauge Potential in One Cavity with Synthetic Frequency and Orbital Angular Momentum Dimensions. <i>Physical Review Letters</i> , <b>2019</b> , 122, 083903	7.4	27
163	Temperature Regulation in Colored Infrared-Transparent Polyethylene Textiles. <i>Joule</i> , <b>2019</b> , 3, 1478-1486	17.8	91
162	Experimental band structure spectroscopy along a synthetic dimension. <i>Nature Communications</i> , <b>2019</b> , 10, 3122	17.4	45

161	Penetration Depth Reduction with Plasmonic Metafilms. <i>ACS Photonics</i> , <b>2019</b> , 6, 2049-2055	6.3	2
160	Forward-Mode Differentiation of Maxwell's Equations. <i>ACS Photonics</i> , <b>2019</b> , 6, 3010-3016	6.3	20
159	Efficient pixel-by-pixel optimization of photonic devices utilizing the Dyson's equation in a Green's function formalism: Part I Implementation with the method of discrete dipole approximation. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, 2378	1.7	8
158	Efficient pixel-by-pixel optimization of photonic devices utilizing the Dyson's equation in a Green's function formalism: Part II Implementation using standard electromagnetic solvers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, 2387	1.7	8
157	Casimir force between two plasmonic metallic plates from a real frequency perspective. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, 2981	1.7	1
156	Accelerating adjoint variable method based photonic optimization with Schur complement domain decomposition. <i>Optics Express</i> , <b>2019</b> , 27, 20711-20719	3.3	4
155	Nighttime radiative cooling in hot and humid climates. <i>Optics Express</i> , <b>2019</b> , 27, 31587-31598	3.3	33
154	Silicon nitride waveguide as a power delivery component for on-chip dielectric laser accelerators. <i>Optics Letters</i> , <b>2019</b> , 44, 335-338	3	6
153	Compact dynamic optical isolator based on tandem phase modulators. <i>Optics Letters</i> , <b>2019</b> , 44, 2240-2243	3	12
152	Near-complete violation of Kirchhoff's law of thermal radiation with a 0.3 T magnetic field. <i>Optics Letters</i> , <b>2019</b> , 44, 4203-4206	3	40
151	Radiative Cooling: Harvesting the Coldness of the Universe. <i>Optics and Photonics News</i> , <b>2019</b> , 30, 32	1.9	20
150	Doubly resonant ( $\mathbb{Q}$ ) nonlinear photonic crystal cavity based on a bound state in the continuum. <i>Optica</i> , <b>2019</b> , 6, 1039	8.6	44
149	Practical efficiency limits of electroluminescent cooling <b>2019</b> ,		1
148	Relation between photon thermal Hall effect and persistent heat current in nonreciprocal radiative heat transfer. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	8
147	Wave physics as an analog recurrent neural network. <i>Science Advances</i> , <b>2019</b> , 5, eaay6946	14.3	89
146	Simultaneously and Synergistically Harvest Energy from the Sun and Outer Space. <i>Joule</i> , <b>2019</b> , 3, 101-110	7.8	71
145	Direction-dependent parity-time phase transition and nonreciprocal amplification with dynamic gain-loss modulation. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	22
144	Arbitrary Polarization Conversion with a Photonic Crystal Slab. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1801853	4.53	15



143	Electronically programmable photonic molecule. <i>Nature Photonics</i> , <b>2019</b> , 13, 36-40	33.9	77
142	Experimental Demonstration of Dynamical Input Isolation in Nonadiabatically Modulated Photonic Cavities. <i>ACS Photonics</i> , <b>2019</b> , 6, 162-169	6.3	10
141	Thermal meta-device in analogue of zero-index photonics. <i>Nature Materials</i> , <b>2019</b> , 18, 48-54	27	112
140	Theory of many-body radiative heat transfer without the constraint of reciprocity. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	38
139	Nonreciprocal Optical Dissipation Based on Direction-Dependent Rabi Splitting. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2018</b> , 24, 1-7	3.8	10
138	Thermodynamic limits of energy harvesting from outgoing thermal radiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E3609-E3615	11.5	46
137	Significant Enhancement of Near-Field Electromagnetic Heat Transfer in a Multilayer Structure through Multiple Surface-States Coupling. <i>Physical Review Letters</i> , <b>2018</b> , 120, 063901	7.4	47
136	Nanoporous polyethylene microfibrils for large-scale radiative cooling fabric. <i>Nature Sustainability</i> , <b>2018</b> , 1, 105-112	22.1	206
135	Synthetic space with arbitrary dimensions in a few rings undergoing dynamic modulation. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	34
134	Enhancing Mo:BiVO <sub>4</sub> Solar Water Splitting with Patterned Au Nanospheres by Plasmon-Induced Energy Transfer. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701765	21.8	60
133	Training of photonic neural networks through in situ backpropagation and gradient measurement. <i>Optica</i> , <b>2018</b> , 5, 864	8.6	155
132	Photonic crystal slab Laplace operator for image differentiation. <i>Optica</i> , <b>2018</b> , 5, 251	8.6	102
131	Self-adaptive radiative cooling based on phase change materials. <i>Optics Express</i> , <b>2018</b> , 26, A777-A787	3.3	105
130	Enhanced high-harmonic generation from an all-dielectric metasurface. <i>Nature Physics</i> , <b>2018</b> , 14, 1006-1010	10.2	132
129	First-principles simulation of photonic crystal surface-emitting lasers using rigorous coupled wave analysis. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 041106	3.4	14
128	Nanophotonic control of thermal radiation for energy applications [Invited]. <i>Optics Express</i> , <b>2018</b> , 26, 15995-16021	3.3	151
127	Spectrally Selective Nanocomposite Textile for Outdoor Personal Cooling. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802152	24	181
126	Near-Field Thermophotonic Systems for Low-Grade Waste-Heat Recovery. <i>Nano Letters</i> , <b>2018</b> , 18, 5224-5230	5.3	31

125	MESH: A free electromagnetic solver for far-field and near-field radiative heat transfer for layered periodic structures. <i>Computer Physics Communications</i> , <b>2018</b> , 231, 163-172	4.2	19
124	Effective electric-field force for a photon in a synthetic frequency lattice created in a waveguide modulator. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	22
123	Synthetic dimension in photonics. <i>Optica</i> , <b>2018</b> , 5, 1396	8.6	133
122	Optimization of Multilayer Optical Films with a Memetic Algorithm and Mixed Integer Programming. <i>ACS Photonics</i> , <b>2018</b> , 5, 684-691	6.3	70
121	Zero-Index Bound States in the Continuum. <i>Physical Review Letters</i> , <b>2018</b> , 121, 263901	7.4	55
120	Adjoint Method and Inverse Design for Nonlinear Nanophotonic Devices. <i>ACS Photonics</i> , <b>2018</b> , 5, 4781-4787	7.7	85
119	Design of a tapered slot waveguide dielectric laser accelerator for sub-relativistic electrons. <i>Optics Express</i> , <b>2018</b> , 26, 22801-22815	3.3	4
118	Unidirectional light transport in dynamically modulated waveguides. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	6
117	Photonic thermal management of coloured objects. <i>Nature Communications</i> , <b>2018</b> , 9, 4240	17.4	80
116	A three-dimensional photonic topological insulator using a two-dimensional ring resonator lattice with a synthetic frequency dimension. <i>Science Advances</i> , <b>2018</b> , 4, eaat2774	14.3	41
115	Isotropic wavevector domain image filters by a photonic crystal slab device. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2018</b> , 35, 1685-1691	1.8	20
114	Pulse shortening in an actively mode-locked laser with parity-time symmetry. <i>APL Photonics</i> , <b>2018</b> , 3, 086103	5.2	13
113	On-Chip Laser-Power Delivery System for Dielectric Laser Accelerators. <i>Physical Review Applied</i> , <b>2018</b> , 9,	4.3	24
112	Daytime Radiative Cooling Using Near-Black Infrared Emitters. <i>ACS Photonics</i> , <b>2017</b> , 4, 626-630	6.3	333
111	Planar, Ultrathin, Subwavelength Spectral Light Separator for Efficient, Wide-Angle Spectral Imaging. <i>ACS Photonics</i> , <b>2017</b> , 4, 525-535	6.3	9
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103	High-performance near-field thermophotovoltaics for waste heat recovery. <i>Nano Energy</i> , <b>2017</b> , 41, 344-350	37.1	79
102	Topologically Protected Complete Polarization Conversion. <i>Physical Review Letters</i> , <b>2017</b> , 119, 167401	7.4	50
101	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> , <b>2017</b> , 122, 143104	2.5	43
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94	Enhancing Near-Field Radiative Heat Transfer with Si-based Metasurfaces. <i>Physical Review Letters</i> , <b>2017</b> , 118, 203901	7.4	73
93	Method for computationally efficient design of dielectric laser accelerator structures. <i>Optics Express</i> , <b>2017</b> , 25, 15414-15427	3.3	23
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