

Shanhui Fan

List of Publications by Year in descending order

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Version: 2024-02-01

295
papers

40,211
citations

2423

97
h-index

2617

194
g-index

300
all docs

300
docs citations

300
times ranked

17826
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 | 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 |
| 4 | Analysis of guided resonances in photonic crystal slabs. <i>Physical Review B</i> , 2002, 65, . | 1.1 | 1,146 |
| 5 | Complete optical isolation created by indirect interband photonic transitions. <i>Nature Photonics</i> , 2009, 3, 91-94. | 15.6 | 990 |
| 6 | Realizing effective magnetic field for photons by controlling the phase of dynamic modulation. <i>Nature Photonics</i> , 2012, 6, 782-787. | 15.6 | 892 |
| 7 | Light management for photovoltaics using high-index nanostructures. <i>Nature Materials</i> , 2014, 13, 451-460. | 13.3 | 796 |
| 8 | Ultrabroadband Photonic Structures To Achieve High-Performance Daytime Radiative Cooling. <i>Nano Letters</i> , 2013, 13, 1457-1461. | 4.5 | 778 |
| 9 | Radiative human body cooling by nanoporous polyethylene textile. <i>Science</i> , 2016, 353, 1019-1023. | 6.0 | 764 |
| 10 | What is "and what is not " an optical isolator. <i>Nature Photonics</i> , 2013, 7, 579-582. | 15.6 | 712 |
| 11 | Fundamental limit of nanophotonic light trapping in solar cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17491-17496. | 3.3 | 703 |
| 12 | Temporal coupled-mode theory and the presence of non-orthogonal modes in lossless multimode cavities. <i>IEEE Journal of Quantum Electronics</i> , 2004, 40, 1511-1518. | 1.0 | 604 |
| 13 | Electrically Driven Nonreciprocity Induced by Interband Photonic Transition on a Silicon Chip. <i>Physical Review Letters</i> , 2012, 109, 033901. | 2.9 | 580 |
| 14 | Radiative cooling to deep sub-freezing temperatures through a 24-h day-night cycle. <i>Nature Communications</i> , 2016, 7, 13729. | 5.8 | 574 |
| 15 | S4 : A free electromagnetic solver for layered periodic structures. <i>Computer Physics Communications</i> , 2012, 183, 2233-2244. | 3.0 | 531 |
| 16 | Stopping Light All Optically. <i>Physical Review Letters</i> , 2004, 92, 083901. | 2.9 | 519 |
| 17 | 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 |
| 18 | Daytime Radiative Cooling Using Near-Black Infrared Emitters. <i>ACS Photonics</i> , 2017, 4, 626-630. | 3.2 | 485 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Robust wireless power transfer using a nonlinear parity-time-symmetric circuit. <i>Nature</i> , 2017, 546, 387-390. | 13.7 | 467 |
| 20 | Omnidirectional reflection from a one-dimensional photonic crystal. <i>Optics Letters</i> , 1998, 23, 1573. | 1.7 | 463 |
| 21 | 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, 12282-12287. | 3.3 | 449 |
| 22 | Transparent and conductive paper from nanocellulose fibers. <i>Energy and Environmental Science</i> , 2013, 6, 513-518. | 15.6 | 431 |
| 23 | One-Way Electromagnetic Waveguide Formed at the Interface between a Plasmonic Metal under a Static Magnetic Field and a Photonic Crystal. <i>Physical Review Letters</i> , 2008, 100, 023902. | 2.9 | 420 |
| 24 | Inference in artificial intelligence with deep optics and photonics. <i>Nature</i> , 2020, 588, 39-47. | 13.7 | 418 |
| 25 | 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. | 15.6 | 405 |
| 26 | Thermal Rectification through Vacuum. <i>Physical Review Letters</i> , 2010, 104, 154301. | 2.9 | 402 |
| 27 | A dual-mode textile for human body radiative heating and cooling. <i>Science Advances</i> , 2017, 3, e1700895. | 4.7 | 399 |
| 28 | Radiative cooling of solar cells. <i>Optica</i> , 2014, 1, 32. | 4.8 | 398 |
| 29 | Strongly Correlated Two-Photon Transport in a One-Dimensional Waveguide Coupled to a Two-Level System. <i>Physical Review Letters</i> , 2007, 98, 153003. | 2.9 | 381 |
| 30 | Limitations of nonlinear optical isolators due to dynamic reciprocity. <i>Nature Photonics</i> , 2015, 9, 388-392. | 15.6 | 372 |
| 31 | Nanoporous polyethylene microfibrils for large-scale radiative cooling fabric. <i>Nature Sustainability</i> , 2018, 1, 105-112. | 11.5 | 370 |
| 32 | Terrestrial radiative cooling: Using the cold universe as a renewable and sustainable energy source. <i>Science</i> , 2020, 370, 786-791. | 6.0 | 370 |
| 33 | Spectrally Selective Nanocomposite Textile for Outdoor Personal Cooling. <i>Advanced Materials</i> , 2018, 30, e1802152. | 11.1 | 362 |
| 34 | Sub-ambient non-evaporative fluid cooling with the sky. <i>Nature Energy</i> , 2017, 2, . | 19.8 | 343 |
| 35 | Superscattering of Light from Subwavelength Nanostructures. <i>Physical Review Letters</i> , 2010, 105, 013901. | 2.9 | 328 |
| 36 | Photonic Aharonov-Bohm Effect Based on Dynamic Modulation. <i>Physical Review Letters</i> , 2012, 108, 153901. | 2.9 | 323 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Training of photonic neural networks through in situ backpropagation and gradient measurement. <i>Optica</i> , 2018, 5, 864. | 4.8 | 319 |
| 38 | Non-reciprocal phase shift induced by an effective magnetic flux for light. <i>Nature Photonics</i> , 2014, 8, 701-705. | 15.6 | 295 |
| 39 | Plasmonic computing of spatial differentiation. <i>Nature Communications</i> , 2017, 8, 15391. | 5.8 | 292 |
| 40 | Warming up human body by nanoporous metallized polyethylene textile. <i>Nature Communications</i> , 2017, 8, 496. | 5.8 | 280 |
| 41 | Synthetic dimension in photonics. <i>Optica</i> , 2018, 5, 1396. | 4.8 | 276 |
| 42 | Nonlinear photonic crystal microdevices for optical integration. <i>Optics Letters</i> , 2003, 28, 637. | 1.7 | 274 |
| 43 | Transforming heat transfer with thermal metamaterials and devices. <i>Nature Reviews Materials</i> , 2021, 6, 488-507. | 23.3 | 270 |
| 44 | Optical circulators in two-dimensional magneto-optical photonic crystals. <i>Optics Letters</i> , 2005, 30, 1989. | 1.7 | 262 |
| 45 | A Comprehensive Photonic Approach for Solar Cell Cooling. <i>ACS Photonics</i> , 2017, 4, 774-782. | 3.2 | 262 |
| 46 | Nanophotonic control of thermal radiation for energy applications [Invited]. <i>Optics Express</i> , 2018, 26, 15995. | 1.7 | 248 |
| 47 | Progress in 2D photonic crystal Fano resonance photonics. <i>Progress in Quantum Electronics</i> , 2014, 38, 1-74. | 3.5 | 232 |
| 48 | Enhanced high-harmonic generation from an all-dielectric metasurface. <i>Nature Physics</i> , 2018, 14, 1006-1010. | 6.5 | 215 |
| 49 | Input-output formalism for few-photon transport in one-dimensional nanophotonic waveguides coupled to a qubit. <i>Physical Review A</i> , 2010, 82, . | 1.0 | 213 |
| 50 | Temperature Regulation in Colored Infrared-Transparent Polyethylene Textiles. <i>Joule</i> , 2019, 3, 1478-1486. | 11.7 | 213 |
| 51 | Displacement-sensitive photonic crystal structures based on guided resonance in photonic crystal slabs. <i>Applied Physics Letters</i> , 2003, 82, 1999-2001. | 1.5 | 206 |
| 52 | Self-adaptive radiative cooling based on phase change materials. <i>Optics Express</i> , 2018, 26, A777. | 1.7 | 202 |
| 53 | Wave physics as an analog recurrent neural network. <i>Science Advances</i> , 2019, 5, eaay6946. | 4.7 | 201 |
| 54 | Creating an Eco-Friendly Building Coating with Smart Subambient Radiative Cooling. <i>Advanced Materials</i> , 2020, 32, e1906751. | 11.1 | 196 |

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|----|---|------|-----------|
| 55 | Photonic gauge potential in a system with a synthetic frequency dimension. <i>Optics Letters</i> , 2016, 41, 741. | 1.7 | 195 |
| 56 | From Electromagnetically Induced Transparency to Superscattering with a Single Structure: A Coupled-Mode Theory for Doubly Resonant Structures. <i>Physical Review Letters</i> , 2012, 108, 083902. | 2.9 | 193 |
| 57 | Theoretical analysis of channel drop tunneling processes. <i>Physical Review B</i> , 1999, 59, 15882-15892. | 1.1 | 191 |
| 58 | Near-field radiative heat transfer between parallel structures in the deep subwavelength regime. <i>Nature Nanotechnology</i> , 2016, 11, 515-519. | 15.6 | 189 |
| 59 | Adjoint Method and Inverse Design for Nonlinear Nanophotonic Devices. <i>ACS Photonics</i> , 2018, 5, 4781-4787. | 3.2 | 188 |
| 60 | Photonics and thermodynamics concepts in radiative cooling. <i>Nature Photonics</i> , 2022, 16, 182-190. | 15.6 | 187 |
| 61 | Photonic crystal slab Laplace operator for image differentiation. <i>Optica</i> , 2018, 5, 251. | 4.8 | 185 |
| 62 | One-way total reflection with one-dimensional magneto-optical photonic crystals. <i>Applied Physics Letters</i> , 2007, 90, 121133. | 1.5 | 180 |
| 63 | Subambient daytime radiative cooling textile based on nanoprocessed silk. <i>Nature Nanotechnology</i> , 2021, 16, 1342-1348. | 15.6 | 178 |
| 64 | A single photonic cavity with two independent physical synthetic dimensions. <i>Science</i> , 2020, 367, 59-64. | 6.0 | 175 |
| 65 | Thermal meta-device in analogue of zero-index photonics. <i>Nature Materials</i> , 2019, 18, 48-54. | 13.3 | 172 |
| 66 | Photonic Weyl point in a two-dimensional resonator lattice with a synthetic frequency dimension. <i>Nature Communications</i> , 2016, 7, 13731. | 5.8 | 170 |
| 67 | Reprogrammable Electro-Optic Nonlinear Activation Functions for Optical Neural Networks. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-12. | 1.9 | 168 |
| 68 | Sensitivity enhancement in photonic crystal slab biosensors. <i>Optics Express</i> , 2010, 18, 22702. | 1.7 | 161 |
| 69 | Generating arbitrary topological windings of a non-Hermitian band. <i>Science</i> , 2021, 371, 1240-1245. | 6.0 | 159 |
| 70 | Near-complete violation of detailed balance in thermal radiation. <i>Physical Review B</i> , 2014, 90, . | 1.1 | 158 |
| 71 | Generating Light from Darkness. <i>Joule</i> , 2019, 3, 2679-2686. | 11.7 | 158 |
| 72 | Electronically programmable photonic molecule. <i>Nature Photonics</i> , 2019, 13, 36-40. | 15.6 | 155 |

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|----|--|------|-----------|
| 73 | Color-preserving daytime radiative cooling. <i>Applied Physics Letters</i> , 2013, 103, . | 1.5 | 154 |
| 74 | Axion-Field-Enabled Nonreciprocal Thermal Radiation in Weyl Semimetals. <i>Nano Letters</i> , 2020, 20, 1923-1927. | 4.5 | 152 |
| 75 | Interband transitions in photonic crystals. <i>Physical Review B</i> , 1999, 59, 1551-1554. | 1.1 | 150 |
| 76 | Thermal Photonics and Energy Applications. <i>Joule</i> , 2017, 1, 264-273. | 11.7 | 147 |
| 77 | Inverse-designed non-reciprocal pulse router for chip-based LiDAR. <i>Nature Photonics</i> , 2020, 14, 369-374. | 15.6 | 145 |
| 78 | Hyperbolic Weyl Point in Reciprocal Chiral Metamaterials. <i>Physical Review Letters</i> , 2016, 117, 057401. | 2.9 | 141 |
| 79 | Photonic thermal management of coloured objects. <i>Nature Communications</i> , 2018, 9, 4240. | 5.8 | 139 |
| 80 | Topological complex-energy braiding of non-Hermitian bands. <i>Nature</i> , 2021, 598, 59-64. | 13.7 | 132 |
| 81 | 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 |
| 82 | Theory of single-photon transport in a single-mode waveguide. II. Coupling to a whispering-gallery resonator containing a two-level atom. <i>Physical Review A</i> , 2009, 79, . | 1.0 | 128 |
| 83 | Modal analysis and coupling in metal-insulator-metal waveguides. <i>Physical Review B</i> , 2009, 79, . | 1.1 | 124 |
| 84 | Photonic Aharonov-Bohm effect in photon-phonon interactions. <i>Nature Communications</i> , 2014, 5, 3225. | 5.8 | 124 |
| 85 | Choice of the perfectly matched layer boundary condition for frequency-domain Maxwell's equations solvers. <i>Journal of Computational Physics</i> , 2012, 231, 3406-3431. | 1.9 | 122 |
| 86 | 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 |
| 87 | 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 |
| 88 | Omnidirectional resonance in a metal-dielectric-metal geometry. <i>Applied Physics Letters</i> , 2004, 84, 4421-4423. | 1.5 | 117 |
| 89 | Time Reversal of Light with Linear Optics and Modulators. <i>Physical Review Letters</i> , 2004, 93, 173903. | 2.9 | 117 |
| 90 | Simultaneously and Synergistically Harvest Energy from the Sun and Outer Space. <i>Joule</i> , 2019, 3, 101-110. | 11.7 | 117 |

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|-----|---|------|-----------|
| 91 | High-performance near-field thermophotovoltaics for waste heat recovery. <i>Nano Energy</i> , 2017, 41, 344-350. | 8.2 | 115 |
| 92 | Comment on "Nonreciprocal Light Propagation in a Silicon Photonic Circuit". <i>Science</i> , 2012, 335, 38-38. | 6.0 | 114 |
| 93 | Tutorial on Electromagnetic Nonreciprocity and its Origins. <i>Proceedings of the IEEE</i> , 2020, 108, 1684-1727. | 16.4 | 114 |
| 94 | Inverse Design of Photonic Crystals through Automatic Differentiation. <i>ACS Photonics</i> , 2020, 7, 1729-1741. | 3.2 | 114 |
| 95 | Method for sensitivity analysis of photonic crystal devices. <i>Optics Letters</i> , 2004, 29, 2288. | 1.7 | 113 |
| 96 | Enhancing Near-Field Radiative Heat Transfer with Si-based Metasurfaces. <i>Physical Review Letters</i> , 2017, 118, 203901. | 2.9 | 107 |
| 97 | Optimization of Multilayer Optical Films with a Memetic Algorithm and Mixed Integer Programming. <i>ACS Photonics</i> , 2018, 5, 684-691. | 3.2 | 103 |
| 98 | Three-Dimensional Printable Nanoporous Polymer Matrix Composites for Daytime Radiative Cooling. <i>Nano Letters</i> , 2021, 21, 1493-1499. | 4.5 | 102 |
| 99 | Near-complete violation of Kirchhoff's law of thermal radiation with a 0.3 T magnetic field. <i>Optics Letters</i> , 2019, 44, 4203. | 1.7 | 101 |
| 100 | Zero-Index Bound States in the Continuum. <i>Physical Review Letters</i> , 2018, 121, 263901. | 2.9 | 98 |
| 101 | Experimental band structure spectroscopy along a synthetic dimension. <i>Nature Communications</i> , 2019, 10, 3122. | 5.8 | 95 |
| 102 | Angle-selective perfect absorption with two-dimensional materials. <i>Light: Science and Applications</i> , 2016, 5, e16052-e16052. | 7.7 | 94 |
| 103 | Topological optical differentiator. <i>Nature Communications</i> , 2021, 12, 680. | 5.8 | 94 |
| 104 | Universal modal radiation laws for all thermal emitters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4336-4341. | 3.3 | 93 |
| 105 | Enhancing Mo:BiVO ₄ Solar Water Splitting with Patterned Au Nanospheres by Plasmon-Induced Energy Transfer. <i>Advanced Energy Materials</i> , 2018, 8, 1701765. | 10.2 | 92 |
| 106 | Controlling the Flow of Light Using the Inhomogeneous Effective Gauge Field that Emerges from Dynamic Modulation. <i>Physical Review Letters</i> , 2013, 111, 203901. | 2.9 | 88 |
| 107 | Homotopy characterization of non-Hermitian Hamiltonians. <i>Physical Review B</i> , 2020, 101, . | 1.1 | 86 |
| 108 | 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 |

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|-----|--|------|-----------|
| 109 | Integrated near-field thermo-photovoltaics for heat recycling. Nature Communications, 2020, 11, 2545. | 5.8 | 85 |
| 110 | Fundamental bounds on decay rates in asymmetric single-mode optical resonators. Optics Letters, 2013, 38, 100. | 1.7 | 84 |
| 111 | Protecting ice from melting under sunlight via radiative cooling. Science Advances, 2022, 8, eabj9756. | 4.7 | 80 |
| 112 | Coloured low-emissivity films for building envelopes for year-round energy savings. Nature Sustainability, 2022, 5, 339-347. | 11.5 | 80 |
| 113 | Bloch oscillation and unidirectional translation of frequency in a dynamically modulated ring resonator. Optica, 2016, 3, 1014. | 4.8 | 79 |
| 114 | Sub-Wavelength Passive Optical Isolators Using Photonic Structures Based on Weyl Semimetals. Advanced Optical Materials, 2020, 8, 2000100. | 3.6 | 79 |
| 115 | Topologically Protected Complete Polarization Conversion. Physical Review Letters, 2017, 119, 167401. | 2.9 | 78 |
| 116 | Thermodynamic limits of energy harvesting from outgoing thermal radiation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3609-E3615. | 3.3 | 78 |
| 117 | Robust and efficient wireless power transfer using a switch-mode implementation of a nonlinear parity-time symmetric circuit. Nature Electronics, 2020, 3, 273-279. | 13.1 | 78 |
| 118 | Doubly resonant $\chi^{(2)}$ nonlinear photonic crystal cavity based on a bound state in the continuum. Optica, 2019, 6, 1039. | 4.8 | 77 |
| 119 | Temporal coupled-mode theory for resonant apertures. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1947. | 0.9 | 76 |
| 120 | Higher-order topological insulators in synthetic dimensions. Light: Science and Applications, 2020, 9, 131. | 7.7 | 75 |
| 121 | Thermal-to-electrical energy conversion by diodes under negative illumination. Physical Review B, 2016, 93, . | 1.1 | 74 |
| 122 | Wireless energy transfer with the presence of metallic planes. Applied Physics Letters, 2011, 99, . | 1.5 | 73 |
| 123 | Theory for Twisted Bilayer Photonic Crystal Slabs. Physical Review Letters, 2021, 126, 136101. | 2.9 | 72 |
| 124 | Fluctuational electrodynamics calculations of near-field heat transfer in non-planar geometries: A brief overview. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 132, 3-11. | 1.1 | 71 |
| 125 | Photonic Structure Textile Design for Localized Thermal Cooling Based on a Fiber Blending Scheme. ACS Photonics, 2016, 3, 2420-2426. | 3.2 | 71 |
| 126 | Optical Circulation and Isolation Based on Indirect Photonic Transitions of Guided Resonance Modes. ACS Photonics, 2017, 4, 1639-1645. | 3.2 | 70 |

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|-----|---|-----|-----------|
| 127 | 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 |
| 128 | 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 |
| 129 | A three-dimensional photonic topological insulator using a two-dimensional ring resonator lattice with a synthetic frequency dimension. <i>Science Advances</i> , 2018, 4, eaat2774. | 4.7 | 66 |
| 130 | Planar metallic nanoscale slit lenses for angle compensation. <i>Applied Physics Letters</i> , 2009, 95, . | 1.5 | 64 |
| 131 | Hot Carrier-Based Near-Field Thermophotovoltaic Energy Conversion. <i>ACS Nano</i> , 2017, 11, 3001-3009. | 7.3 | 64 |
| 132 | Broadband Absorption Enhancement in Solar Cells with an Atomically Thin Active Layer. <i>ACS Photonics</i> , 2016, 3, 571-577. | 3.2 | 62 |
| 133 | Optical isolation based on nonreciprocal phase shift induced by interband photonic transitions. <i>Applied Physics Letters</i> , 2009, 94, 171116. | 1.5 | 60 |
| 134 | Experimental demonstration of acoustic semimetal with topologically charged nodal surface. <i>Science Advances</i> , 2020, 6, eaav2360. | 4.7 | 60 |
| 135 | Thermodynamic Upper Bound on Broadband Light Coupling with Photonic Structures. <i>Physical Review Letters</i> , 2012, 109, 173901. | 2.9 | 59 |
| 136 | Dynamic non-reciprocal meta-surfaces with arbitrary phase reconfigurability based on photonic transition in meta-atoms. <i>Applied Physics Letters</i> , 2016, 108, . | 1.5 | 59 |
| 137 | Synthetic space with arbitrary dimensions in a few rings undergoing dynamic modulation. <i>Physical Review B</i> , 2018, 97, . | 1.1 | 59 |
| 138 | Nighttime radiative cooling in hot and humid climates. <i>Optics Express</i> , 2019, 27, 31587. | 1.7 | 58 |
| 139 | Squeeze free space with nonlocal flat optics. <i>Optica</i> , 2020, 7, 1133. | 4.8 | 58 |
| 140 | Topological dissipation in a time-multiplexed photonic resonator network. <i>Nature Physics</i> , 2022, 18, 442-449. | 6.5 | 58 |
| 141 | Nonreciprocal infrared absorption via resonant magneto-optical coupling to InAs. <i>Science Advances</i> , 2022, 8, eabm4308. | 4.7 | 58 |
| 142 | Radiative Thermal Router Based on Tunable Magnetic Weyl Semimetals. <i>ACS Photonics</i> , 2020, 7, 3257-3263. | 3.2 | 57 |
| 143 | Roadmap on topological photonics. <i>JPhys Photonics</i> , 2022, 4, 032501. | 2.2 | 56 |
| 144 | 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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|-----|--|-----|-----------|
| 145 | 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 |
| 146 | Inverse Design of Lightweight Broadband Reflector for Relativistic Lightsail Propulsion. <i>ACS Photonics</i> , 2020, 7, 2350-2355. | 3.2 | 54 |
| 147 | Absence of unidirectionally propagating surface plasmon-polaritons at nonreciprocal metal-dielectric interfaces. <i>Nature Communications</i> , 2020, 11, 674. | 5.8 | 54 |
| 148 | Prospects and applications of photonic neural networks. <i>Advances in Physics: X</i> , 2022, 7, . | 1.5 | 54 |
| 149 | Near-Field Enhanced Negative Luminescent Refrigeration. <i>Physical Review Applied</i> , 2016, 6, . | 1.5 | 53 |
| 150 | Theory of many-body radiative heat transfer without the constraint of reciprocity. <i>Physical Review B</i> , 2018, 97, . | 1.1 | 53 |
| 151 | Compact Incoherent Image Differentiation with Nanophotonic Structures. <i>ACS Photonics</i> , 2020, 7, 338-343. | 3.2 | 53 |
| 152 | Temporal coupled-mode theory for light scattering by an arbitrarily shaped object supporting a single resonance. <i>Physical Review A</i> , 2012, 85, . | 1.0 | 52 |
| 153 | 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 |
| 154 | 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 |
| 155 | Violating Kirchhoff's Law of Thermal Radiation in Semitransparent Structures. <i>ACS Photonics</i> , 2021, 8, 2417-2424. | 3.2 | 49 |
| 156 | Maximal nighttime electrical power generation via optimal radiative cooling. <i>Optics Express</i> , 2020, 28, 25460. | 1.7 | 47 |
| 157 | Inverse Design of Metasurfaces Based on Coupled-Mode Theory and Adjoint Optimization. <i>ACS Photonics</i> , 2021, 8, 2265-2273. | 3.2 | 45 |
| 158 | Design methodology for compact photonic-crystal-based wavelength division multiplexers. <i>Optics Letters</i> , 2011, 36, 591. | 1.7 | 44 |
| 159 | Exact solution to the steady-state dynamics of a periodically modulated resonator. <i>APL Photonics</i> , 2017, 2, . | 3.0 | 44 |
| 160 | Near-Field Thermophotonic Systems for Low-Grade Waste-Heat Recovery. <i>Nano Letters</i> , 2018, 18, 5224-5230. | 4.5 | 44 |
| 161 | Meron Spin Textures in Momentum Space. <i>Physical Review Letters</i> , 2020, 124, 106103. | 2.9 | 44 |
| 162 | Engineering arbitrarily oriented spatiotemporal optical vortices using transmission nodal lines. <i>Optica</i> , 2021, 8, 966. | 4.8 | 44 |

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|-----|--|------|-----------|
| 163 | Synthetic frequency dimensions in dynamically modulated ring resonators. <i>APL Photonics</i> , 2021, 6, . | 3.0 | 44 |
| 164 | Forward-Mode Differentiation of Maxwell's Equations. <i>ACS Photonics</i> , 2019, 6, 3010-3016. | 3.2 | 43 |
| 165 | Quantum Entanglement and Modulation Enhancement of Free-Electron-Bound-Electron Interaction. <i>Physical Review Letters</i> , 2021, 126, 233402. | 2.9 | 43 |
| 166 | Nonreciprocity in Bianisotropic Systems with Uniform Time Modulation. <i>Physical Review Letters</i> , 2020, 125, 266102. | 2.9 | 43 |
| 167 | Nighttime Radiative Cooling for Water Harvesting from Solar Panels. <i>ACS Photonics</i> , 2021, 8, 269-275. | 3.2 | 41 |
| 168 | Connection of temporal coupled-mode-theory formalisms for a resonant optical system and its time-reversal conjugate. <i>Physical Review A</i> , 2019, 99, . | 1.0 | 40 |
| 169 | Nontrivial point-gap topology and non-Hermitian skin effect in photonic crystals. <i>Physical Review B</i> , 2021, 104, . | 1.1 | 40 |
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