

Xiang Zhang

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.

322
papers

51,137
citations

104
h-index

223
g-index

340
ext. papers

60,558
ext. citations

12.6
avg, IF

7.88
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 322 | Non-Hermitian topological coupler for elastic waves. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022 , 65, 1 | 3.6 | 3 |
| 321 | Subwavelength-scale lasing perovskite with ultrahigh Purcell enhancement. <i>Matter</i> , 2021 , 4, 4042-4050 | 12.7 | 2 |
| 320 | Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2021 , 2108017-0 | 3.8 | 69 |
| 319 | Direct electrical modulation of second-order optical susceptibility via phase transitions. <i>Nature Electronics</i> , 2021 , 4, 725-730 | 28.4 | 0 |
| 318 | Observation of strong excitonic magneto-chiral anisotropy in twisted bilayer van der Waals crystals. <i>Nature Communications</i> , 2021 , 12, 2088 | 17.4 | 2 |
| 317 | Nonlinear valley phonon scattering under the strong coupling regime. <i>Nature Materials</i> , 2021 , 20, 1210-1215 | 12.7 | 7 |
| 316 | Atomic-scale ion transistor with ultrahigh diffusivity. <i>Science</i> , 2021 , 372, 501-503 | 33.3 | 23 |
| 315 | Topological Corner Modes Induced by Dirac Vortices in Arbitrary Geometry. <i>Physical Review Letters</i> , 2021 , 126, 226802 | 7.4 | 8 |
| 314 | Externally driven broadband transmission in strongly disordered materials. <i>Applied Physics Letters</i> , 2021 , 118, 231103 | 3.4 | |
| 313 | Unprecedented Fluorophore Photostability Enabled by Low-Loss Organic Hyperbolic Materials. <i>Advanced Materials</i> , 2021 , 33, e2006496 | 24 | 5 |
| 312 | Experimental Determination of PT-Symmetric Exceptional Points in a Single Trapped Ion. <i>Physical Review Letters</i> , 2021 , 126, 083604 | 7.4 | 8 |
| 311 | A non-unitary metasurface enables continuous control of quantum photon-photon interactions from bosonic to fermionic. <i>Nature Photonics</i> , 2021 , 15, 267-271 | 33.9 | 13 |
| 310 | Self-adaptive acoustic cloak enabled by soft mechanical metamaterials. <i>Extreme Mechanics Letters</i> , 2021 , 46, 101347 | 3.9 | 2 |
| 309 | Organic Hyperbolic Material Assisted Illumination Nanoscopy. <i>Advanced Science</i> , 2021 , 8, e2102230 | 13.6 | 3 |
| 308 | Berry curvature memory through electrically driven stacking transitions. <i>Nature Physics</i> , 2020 , 16, 1028-1034 | 10.4 | 34 |
| 307 | Nonresonant Metasurface for Fast Decoding in Acoustic Communications. <i>Physical Review Applied</i> , 2020 , 13, | 4.3 | 14 |
| 306 | Nonlinear Optics at Excited States of Exciton Polaritons in Two-Dimensional Atomic Crystals. <i>Nano Letters</i> , 2020 , 20, 1676-1685 | 11.5 | 11 |

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|-----|--|------|-----|
| 305 | Direct observation of Klein tunneling in phononic crystals. <i>Science</i> , 2020 , 370, 1447-1450 | 33.3 | 30 |
| 304 | Ten years of spasers and plasmonic nanolasers. <i>Light: Science and Applications</i> , 2020 , 9, 90 | 16.7 | 82 |
| 303 | Electron-hole hybridization in bilayer graphene. <i>National Science Review</i> , 2020 , 7, 248-253 | 10.8 | 3 |
| 302 | Subwavelength pixelated CMOS color sensors based on anti-Hermitian metasurface. <i>Nature Communications</i> , 2020 , 11, 3916 | 17.4 | 8 |
| 301 | A Thermal Radiation Modulation Platform by Emissivity Engineering with Graded Metal-Insulator Transition. <i>Advanced Materials</i> , 2020 , 32, e1907071 | 24 | 27 |
| 300 | Enhanced ferroelectricity in ultrathin films grown directly on silicon. <i>Nature</i> , 2020 , 580, 478-482 | 50.4 | 232 |
| 299 | Unidirectional Extraordinary Sound Transmission with Mode-Selective Resonant Materials. <i>Physical Review Applied</i> , 2020 , 13, | 4.3 | 16 |
| 298 | Room-Temperature Giant Stark Effect of Single Photon Emitter in van der Waals Material. <i>Nano Letters</i> , 2019 , 19, 7100-7105 | 11.5 | 22 |
| 297 | Observation of Rydberg exciton polaritons and their condensate in a perovskite cavity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 20274-20279 | 11.5 | 21 |
| 296 | Stable Casimir equilibria and quantum trapping. <i>Science</i> , 2019 , 364, 984-987 | 33.3 | 29 |
| 295 | Tunneling dynamics of a Bose-Einstein superfluid mixture. <i>European Physical Journal D</i> , 2019 , 73, 1 | 1.3 | 2 |
| 294 | Multiferroicity in atomic van der Waals heterostructures. <i>Nature Communications</i> , 2019 , 10, 2657 | 17.4 | 104 |
| 293 | Observation of acoustic spin. <i>National Science Review</i> , 2019 , 6, 707-712 | 10.8 | 40 |
| 292 | Valley optomechanics in a monolayer semiconductor. <i>Nature Photonics</i> , 2019 , 13, 397-401 | 33.9 | 15 |
| 291 | Vertical Self-Assembly of Polarized Phage Nanostructure for Energy Harvesting. <i>Nano Letters</i> , 2019 , 19, 2661-2667 | 11.5 | 18 |
| 290 | Oblique-plane single-molecule localization microscopy for tissues and small intact animals. <i>Nature Methods</i> , 2019 , 16, 853-857 | 21.6 | 39 |
| 289 | Polarization-dependent near-field phonon nanoscopy of oxides: SrTiO ₃ , LiNbO ₃ , and PbZr _{0.2} Ti _{0.8} O ₃ . <i>Physical Review B</i> , 2019 , 100, | 3.3 | 17 |
| 288 | Topological kink plasmons on magnetic-domain boundaries. <i>Nature Communications</i> , 2019 , 10, 4565 | 17.4 | 7 |

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|-----|--|------|-----|
| 287 | Localized plasmonic structured illumination microscopy with gaps in spatial frequencies. <i>Optics Letters</i> , 2019 , 44, 2915 | 3 | 8 |
| 286 | Second harmonic generation spectroscopy on two-dimensional materials [Invited]. <i>Optical Materials Express</i> , 2019 , 9, 1136 | 2.6 | 27 |
| 285 | Two-dimensional magnetic crystals and emergent heterostructure devices. <i>Science</i> , 2019 , 363, | 33.3 | 554 |
| 284 | Double-negative-index ceramic aerogels for thermal superinsulation. <i>Science</i> , 2019 , 363, 723-727 | 33.3 | 229 |
| 283 | Strong optical response and light emission from a monolayer molecular crystal. <i>Nature Communications</i> , 2019 , 10, 5589 | 17.4 | 36 |
| 282 | Phonon heat transfer across a vacuum through quantum fluctuations. <i>Nature</i> , 2019 , 576, 243-247 | 50.4 | 34 |
| 281 | Roadmap on plasmonics. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 043001 | 1.7 | 174 |
| 280 | Observation of chiral phonons. <i>Science</i> , 2018 , 359, 579-582 | 33.3 | 110 |
| 279 | Nonreciprocal Localization of Photons. <i>Physical Review Letters</i> , 2018 , 120, 043901 | 7.4 | 32 |
| 278 | Epitaxial Single-Layer MoS on GaN with Enhanced Valley Helicity. <i>Advanced Materials</i> , 2018 , 30, 1703888 | 24 | 55 |
| 277 | High-Performance Single-Crystalline Perovskite Thin-Film Photodetector. <i>Advanced Materials</i> , 2018 , 30, 1704333 | 24 | 166 |
| 276 | Hybrid Lithographic and DNA-Directed Assembly of a Configurable Plasmonic Metamaterial That Exhibits Electromagnetically Induced Transparency. <i>Nano Letters</i> , 2018 , 18, 859-864 | 11.5 | 16 |
| 275 | Metamaterials: artificial materials beyond nature. <i>National Science Review</i> , 2018 , 5, 131-131 | 10.8 | 22 |
| 274 | Quantum coherence-driven self-organized criticality and nonequilibrium light localization. <i>Science Advances</i> , 2018 , 4, eaaq0465 | 14.3 | 4 |
| 273 | Calculation of vectorial diffraction in optical systems. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018 , 35, 526-535 | 1.8 | 12 |
| 272 | Mid-IR broadband supercontinuum generation from a suspended silicon waveguide. <i>Optics Letters</i> , 2018 , 43, 1387-1390 | 3 | 19 |
| 271 | Correlation of Electron Tunneling and Plasmon Propagation in a Luttinger Liquid. <i>Physical Review Letters</i> , 2018 , 121, 047702 | 7.4 | 13 |
| 270 | Asymmetric Free-Space Light Transport at Nonlinear Metasurfaces. <i>Physical Review Letters</i> , 2018 , 121, 046101 | 7.4 | 17 |

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| 269 | High Spatiotemporal Resolution Imaging with Localized Plasmonic Structured Illumination Microscopy. <i>ACS Nano</i> , 2018 , 12, 8248-8254 | 16.7 | 28 |
| 268 | Electrically induced 2D half-metallic antiferromagnets and spin field effect transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 8511-8516 | 11.5 | 87 |
| 267 | Comparison of different theories for focusing through a plane interface: comment. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018 , 35, 591-592 | 1.8 | 2 |
| 266 | Dynamically tunable and active hyperbolic metamaterials. <i>Advances in Optics and Photonics</i> , 2018 , 10, 354 | 16.7 | 28 |
| 265 | Single-crystalline layered metal-halide perovskite nanowires for ultrasensitive photodetectors. <i>Nature Electronics</i> , 2018 , 1, 404-410 | 28.4 | 224 |
| 264 | Patterning-Induced Ferromagnetism of FeGeTe van der Waals Materials beyond Room Temperature. <i>Nano Letters</i> , 2018 , 18, 5974-5980 | 11.5 | 101 |
| 263 | Polarization-controlled coherent phonon generation in acoustoplasmonic metasurfaces. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 11 |
| 262 | Ultrafast Spontaneous Emission from a Slot-Antenna Coupled WSe ₂ Monolayer. <i>ACS Photonics</i> , 2018 , 5, 2701-2705 | 6.3 | 12 |
| 261 | Metasurface-Mediated Quantum Entanglement. <i>ACS Photonics</i> , 2018 , 5, 971-976 | 6.3 | 30 |
| 260 | Confinement-induced resonance of alkaline-earth-metal-like atoms in anisotropic quasi-one-dimensional traps. <i>Physical Review A</i> , 2018 , 98, | 2.6 | 3 |
| 259 | Nonconventional metasurfaces: from non-Hermitian coupling, quantum interactions, to skin cloak. <i>Nanophotonics</i> , 2018 , 7, 1233-1243 | 6.3 | 9 |
| 258 | Polarons in alkaline-earth-like atoms with multiple background Fermi surfaces. <i>Frontiers of Physics</i> , 2018 , 13, 1 | 3.7 | 4 |
| 257 | Dissipative self-organization in optical space. <i>Nature Photonics</i> , 2018 , 12, 739-743 | 33.9 | 10 |
| 256 | Experimental Demonstration of Hyperbolic Metamaterial Assisted Illumination Nanoscopy. <i>ACS Nano</i> , 2018 , 12, 11316-11322 | 16.7 | 14 |
| 255 | Spontaneous Exciton Valley Coherence in Transition Metal Dichalcogenide Monolayers Interfaced with an Anisotropic Metasurface. <i>Physical Review Letters</i> , 2018 , 121, 116102 | 7.4 | 21 |
| 254 | Intrinsic Two-Dimensional Ferroelectricity with Dipole Locking. <i>Physical Review Letters</i> , 2018 , 120, 227601 | 7.4 | 170 |
| 253 | Anomalously low electronic thermal conductivity in metallic vanadium dioxide. <i>Science</i> , 2017 , 355, 371-374 | 33.3 | 208 |
| 252 | Metamaterials for perpetual cooling at large scales. <i>Science</i> , 2017 , 355, 1023-1024 | 33.3 | 20 |

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|-----|--|------|------|
| 251 | High thermoelectric power factor in two-dimensional crystals of MoS ₂ . <i>Physical Review B</i> , 2017 , 95, | 3.3 | 133 |
| 250 | Single-photon test of hyper-complex quantum theories using a metamaterial. <i>Nature Communications</i> , 2017 , 8, 15044 | 17.4 | 16 |
| 249 | A thin and conformal metasurface for illusion acoustics of rapidly changing profiles. <i>Applied Physics Letters</i> , 2017 , 110, 151902 | 3.4 | 49 |
| 248 | Janus monolayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , 2017 , 12, 744-749 | 28.7 | 828 |
| 247 | Discovery of intrinsic ferromagnetism in two-dimensional van der Waals crystals. <i>Nature</i> , 2017 , 546, 265-269 | 36.9 | 1890 |
| 246 | Emergence of an enslaved phononic bandgap in a non-equilibrium pseudo-crystal. <i>Nature Materials</i> , 2017 , 16, 808-813 | 27 | 21 |
| 245 | Observation of acoustic Dirac-like cone and double zero refractive index. <i>Nature Communications</i> , 2017 , 8, 14871 | 17.4 | 92 |
| 244 | Structural phase transition in monolayer MoTe driven by electrostatic doping. <i>Nature</i> , 2017 , 550, 487-491 | 30.4 | 390 |
| 243 | Ultraslow waves on the nanoscale. <i>Science</i> , 2017 , 358, | 33.3 | 81 |
| 242 | Ultrafast fluorescent decay induced by metal-mediated dipole-dipole interaction in two-dimensional molecular aggregates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 10017-10022 | 11.5 | 13 |
| 241 | Optical and acoustic metamaterials: superlens, negative refractive index and invisibility cloak. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 084007 | 1.7 | 60 |
| 240 | Nonvolatile MoS ₂ field effect transistors directly gated by single crystalline epitaxial ferroelectric. <i>Applied Physics Letters</i> , 2017 , 111, 023104 | 3.4 | 33 |
| 239 | Low-loss and energy efficient modulation in silicon photonic waveguides by adiabatic elimination scheme. <i>Applied Physics Letters</i> , 2017 , 111, 033105 | 3.4 | 2 |
| 238 | Tunable thermal conductivity in mesoporous silicon by slight porosity change. <i>Applied Physics Letters</i> , 2017 , 111, 063104 | 3.4 | 5 |
| 237 | Three-dimensional nanoscale imaging by plasmonic Brownian microscopy. <i>Nanophotonics</i> , 2017 , 7, 489-495 | 4.5 | 1 |
| 236 | Reply to Miller: Misunderstanding and mix-up of acoustic and optical communications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E9757-E9758 | 11.5 | 1 |
| 235 | High-speed acoustic communication by multiplexing orbital angular momentum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7250-7253 | 11.5 | 139 |
| 234 | Realization of Translational Symmetry in Trapped Cold Ion Rings. <i>Physical Review Letters</i> , 2017 , 118, 053901 | 9.1 | 27 |

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|-----|---|------|-----|
| 233 | Control of Coherently Coupled Exciton Polaritons in Monolayer Tungsten Disulphide. <i>Physical Review Letters</i> , 2017 , 119, 027403 | 7.4 | 67 |
| 232 | Infrared Topological Plasmons in Graphene. <i>Physical Review Letters</i> , 2017 , 118, 245301 | 7.4 | 92 |
| 231 | Excitons in atomically thin 2D semiconductors and their applications. <i>Nanophotonics</i> , 2017 , 6, 1309-13286.3 | | 100 |
| 230 | Valley photonic crystals for control of spin and topology. <i>Nature Materials</i> , 2017 , 16, 298-302 | 27 | 273 |
| 229 | Robust plasmonic hot-spots in a metamaterial lattice for enhanced sensitivity of infrared molecular detection. <i>Applied Physics Letters</i> , 2017 , 111, 243106 | 3.4 | 6 |
| 228 | Vortex degeneracy lifting and Aharonov-Bohm-like interference in deformed photonic graphene. <i>Optics Letters</i> , 2017 , 42, 915-918 | 3 | 7 |
| 227 | Diversifying Nanoparticle Assemblies in Supramolecule Nanocomposites Via Cylindrical Confinement. <i>Nano Letters</i> , 2017 , 17, 6847-6854 | 11.5 | 38 |
| 226 | Atomically phase-matched second-harmonic generation in a 2D crystal. <i>Light: Science and Applications</i> , 2016 , 5, e16131 | 16.7 | 109 |
| 225 | Coherence-Driven Topological Transition in Quantum Metamaterials. <i>Physical Review Letters</i> , 2016 , 116, 165502 | 7.4 | 26 |
| 224 | Self-Assembled, Nanostructured, Tunable Metamaterials via Spinodal Decomposition. <i>ACS Nano</i> , 2016 , 10, 10237-10244 | 16.7 | 37 |
| 223 | Detecting Thermal Cloaks via Transient Effects. <i>Scientific Reports</i> , 2016 , 6, 32915 | 4.9 | 15 |
| 222 | Lasing and anti-lasing in a single cavity. <i>Nature Photonics</i> , 2016 , 10, 796-801 | 33.9 | 201 |
| 221 | Accessing the exceptional points of parity-time symmetric acoustics. <i>Nature Communications</i> , 2016 , 7, 11110 | 17.4 | 152 |
| 220 | Magnetic hyperbolic optical metamaterials. <i>Nature Communications</i> , 2016 , 7, 11329 | 17.4 | 91 |
| 219 | Weaving of organic threads into a crystalline covalent organic framework. <i>Science</i> , 2016 , 351, 365-9 | 33.3 | 307 |
| 218 | Nonlinear infrared plasmonic waveguide arrays. <i>Nano Research</i> , 2016 , 9, 224-229 | 10 | 4 |
| 217 | Large spontaneous-emission enhancements in metallic nanostructures: towards LEDs faster than lasers. <i>Optics Express</i> , 2016 , 24, 17916-27 | 3.3 | 57 |
| 216 | Large-scale chemical assembly of atomically thin transistors and circuits. <i>Nature Nanotechnology</i> , 2016 , 11, 954-959 | 28.7 | 201 |

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|-----|--|------|-----|
| 215 | Directional excitation without breaking reciprocity. <i>New Journal of Physics</i> , 2016 , 18, 095001 | 2.9 | 9 |
| 214 | Tunable Thermal Transport in Polysilsesquioxane (PSQ) Hybrid Crystals. <i>Scientific Reports</i> , 2016 , 6, 21452 | 4.9 | 2 |
| 213 | Electrical generation and control of the valley carriers in a monolayer transition metal dichalcogenide. <i>Nature Nanotechnology</i> , 2016 , 11, 598-602 | 28.7 | 195 |
| 212 | Unidirectional Perfect Absorber. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016 , 22, 115-120 | 9.8 | 26 |
| 211 | Athermal Broadband Graphene Optical Modulator with 35 GHz Speed. <i>ACS Photonics</i> , 2016 , 3, 1564-1568 | 6.3 | 116 |
| 210 | Adiabatic elimination-based coupling control in densely packed subwavelength waveguides. <i>Nature Communications</i> , 2015 , 6, 7565 | 17.4 | 52 |
| 209 | Metasurface-Enabled Remote Quantum Interference. <i>Physical Review Letters</i> , 2015 , 115, 025501 | 7.4 | 80 |
| 208 | Self-aligned deterministic coupling of single quantum emitter to nanofocused plasmonic modes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 5280-5 | 11.5 | 32 |
| 207 | Quasi-3D plasmonic coupling scheme for near-field optical lithography and imaging. <i>Optics Letters</i> , 2015 , 40, 3918-21 | 3 | 14 |
| 206 | Monolayer excitonic laser. <i>Nature Photonics</i> , 2015 , 9, 733-737 | 33.9 | 369 |
| 205 | Experimental Realization of Two Decoupled Directional Couplers in a Subwavelength Packing by Adiabatic Elimination. <i>Nano Letters</i> , 2015 , 15, 7383-7 | 11.5 | 11 |
| 204 | Adiabatic far-field sub-diffraction imaging. <i>Nature Communications</i> , 2015 , 6, 7942 | 17.4 | 19 |
| 203 | An ultrathin invisibility skin cloak for visible light. <i>Science</i> , 2015 , 349, 1310-4 | 33.3 | 684 |
| 202 | Near-unity photoluminescence quantum yield in MoS ₂ . <i>Science</i> , 2015 , 350, 1065-8 | 33.3 | 792 |
| 201 | Observation of piezoelectricity in free-standing monolayer MoS ₂ . <i>Nature Nanotechnology</i> , 2015 , 10, 151-5 | 28.7 | 537 |
| 200 | Hyperbolic metamaterials and their applications. <i>Progress in Quantum Electronics</i> , 2015 , 40, 1-40 | 9.1 | 400 |
| 199 | Rapid, all-optical crystal orientation imaging of two-dimensional transition metal dichalcogenide monolayers. <i>Applied Physics Letters</i> , 2015 , 107, 111902 | 3.4 | 16 |
| 198 | Macroscale Transformation Optics Enabled by Photoelectrochemical Etching. <i>Advanced Materials</i> , 2015 , 27, 6131-6 | 24 | 10 |

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|-----|--|------|-----|
| 197 | Optical modulation of aqueous metamaterial properties at large scale. <i>Optics Express</i> , 2015 , 23, 28736-41,3 | 4.3 | 3 |
| 196 | Nonlinear optical selection rule based on valley-exciton locking in monolayer ws_2 . <i>Light: Science and Applications</i> , 2015 , 4, e366-e366 | 16.7 | 70 |
| 195 | Surface traps for freely rotating ion ring crystals. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 205002 | 1.3 | 8 |
| 194 | Predicting nonlinear properties of metamaterials from the linear response. <i>Nature Materials</i> , 2015 , 14, 379-83 | 27 | 185 |
| 193 | Experimental demonstration of in-plane negative-angle refraction with an array of silicon nanoposts. <i>Nano Letters</i> , 2015 , 15, 2055-60 | 11.5 | 26 |
| 192 | Edge nonlinear optics on a MoS_2 atomic monolayer. <i>Science</i> , 2014 , 344, 488-90 | 33.3 | 504 |
| 191 | Single-mode laser by parity-time symmetry breaking. <i>Science</i> , 2014 , 346, 972-5 | 33.3 | 905 |
| 190 | Interacting dark resonances with plasmonic meta-molecules. <i>Applied Physics Letters</i> , 2014 , 105, 111109 | 3.4 | 16 |
| 189 | Feedback-driven self-assembly of symmetry-breaking optical metamaterials in solution. <i>Nature Nanotechnology</i> , 2014 , 9, 1002-6 | 28.7 | 70 |
| 188 | Multijunction solar cell efficiencies: effect of spectral window, optical environment and radiative coupling. <i>Energy and Environmental Science</i> , 2014 , 7, 3600-3605 | 35.4 | 17 |
| 187 | Probing excitonic dark states in single-layer tungsten disulphide. <i>Nature</i> , 2014 , 513, 214-8 | 50.4 | 672 |
| 186 | Explosives detection in a lasing plasmon nanocavity. <i>Nature Nanotechnology</i> , 2014 , 9, 600-4 | 28.7 | 153 |
| 185 | Temperature-gated thermal rectifier for active heat flow control. <i>Nano Letters</i> , 2014 , 14, 4867-72 | 11.5 | 104 |
| 184 | Generation of acoustic self-bending and bottle beams by phase engineering. <i>Nature Communications</i> , 2014 , 5, 4316 | 17.4 | 145 |
| 183 | Ultrafast acousto-plasmonic control and sensing in complex nanostructures. <i>Nature Communications</i> , 2014 , 5, 4042 | 17.4 | 59 |
| 182 | Axial plane optical microscopy. <i>Scientific Reports</i> , 2014 , 4, 7253 | 4.9 | 25 |
| 181 | Unidirectional spectral singularities. <i>Physical Review Letters</i> , 2014 , 113, 263905 | 7.4 | 78 |
| 180 | A Coupled Electromagnetic and Thermal Model for Picosecond and Nanometer Scale Plasmonic Lithography Process. <i>Journal of Micro and Nano-Manufacturing</i> , 2014 , 2, | 1.3 | 2 |

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|-----|---|------|-----|
| 179 | Demonstration of a large-scale optical exceptional point structure. <i>Optics Express</i> , 2014 , 22, 1760-7 | 3.3 | 110 |
| 178 | Vectorial point spread function and optical transfer function in oblique plane imaging. <i>Optics Express</i> , 2014 , 22, 11140-51 | 3.3 | 9 |
| 177 | Controlling quantum-dot light absorption and emission by a surface-plasmon field. <i>Optics Express</i> , 2014 , 22, 27576-605 | 3.3 | 13 |
| 176 | Resonant scattering of surface plasmon polaritons by dressed quantum dots. <i>Applied Physics Letters</i> , 2014 , 104, 251103 | 3.4 | 6 |
| 175 | Exciton-dominant electroluminescence from a diode of monolayer MoS ₂ . <i>Applied Physics Letters</i> , 2014 , 104, 193508 | 3.4 | 72 |
| 174 | Brownian motion of tethered nanowires. <i>Physical Review E</i> , 2014 , 89, 053010 | 2.4 | 7 |
| 173 | A two-stage heating scheme for heat assisted magnetic recording. <i>Journal of Applied Physics</i> , 2014 , 115, 17B702 | 2.5 | 14 |
| 172 | PT-Symmetric Acoustics. <i>Physical Review X</i> , 2014 , 4, | 9.1 | 203 |
| 171 | Resonant phase matching of Josephson junction traveling wave parametric amplifiers. <i>Physical Review Letters</i> , 2014 , 113, 157001 | 7.4 | 84 |
| 170 | Electrodynamical Light Trapping Using Whispering-Gallery Resonances in Hyperbolic Cavities. <i>Physical Review X</i> , 2014 , 4, | 9.1 | 15 |
| 169 | Local plasticity of dendritic excitability can be autonomous of synaptic plasticity and regulated by activity-based phosphorylation of Kv4.2. <i>PLoS ONE</i> , 2014 , 9, e84086 | 3.7 | 8 |
| 168 | Plasmon lasers: coherent light source at molecular scales. <i>Laser and Photonics Reviews</i> , 2013 , 7, 1-21 | 8.3 | 207 |
| 167 | Intracellular delivery of top-down fabricated tunable nano-plasmonic resonators. <i>Nanoscale</i> , 2013 , 5, 10179-82 | 7.7 | 1 |
| 166 | Metasurfaces for manipulating surface plasmons. <i>Applied Physics Letters</i> , 2013 , 103, 141101 | 3.4 | 102 |
| 165 | Phase mismatch-free nonlinear propagation in optical zero-index materials. <i>Science</i> , 2013 , 342, 1223-6 | 33.3 | 186 |
| 164 | Large quantum superpositions of a levitated nanodiamond through spin-optomechanical coupling. <i>Physical Review A</i> , 2013 , 88, | 2.6 | 153 |
| 163 | Giant suppression of photobleaching for single molecule detection via the Purcell effect. <i>Nano Letters</i> , 2013 , 13, 5949-53 | 11.5 | 54 |
| 162 | Quantum coherence-assisted propagation of surface plasmon polaritons. <i>Applied Physics Letters</i> , 2013 , 102, 091111 | 3.4 | 24 |

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|-----|--|------|-----|
| 161 | Nanoporous silicon networks as anodes for lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 440-3 | 3.6 | 57 |
| 160 | Photonic spin Hall effect at metasurfaces. <i>Science</i> , 2013 , 339, 1405-7 | 33.3 | 799 |
| 159 | Unidirectional light propagation at exceptional points. <i>Nature Materials</i> , 2013 , 12, 175-7 | 27 | 95 |
| 158 | Lipid bilayer-integrated optoelectronic tweezers for nanoparticle manipulations. <i>Nano Letters</i> , 2013 , 13, 2766-70 | 11.5 | 24 |
| 157 | All-optical Hall effect by the dynamic toroidal moment in a cavity-based metamaterial. <i>Physical Review B</i> , 2013 , 87, | 3.3 | 61 |
| 156 | One-way invisible cloak using parity-time symmetric transformation optics. <i>Optics Letters</i> , 2013 , 38, 2821-4 | 3.4 | 106 |
| 155 | Plasmonic Brownian ratchet. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 10 |
| 154 | Tuning the polarization state of light via time retardation with a microstructured surface. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 19 |
| 153 | Acoustic rainbow trapping. <i>Scientific Reports</i> , 2013 , 3, | 4.9 | 181 |
| 152 | Theoretical efficiency of 3rd generation solar cells: Comparison between carrier multiplication and down-conversion. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 99, 308-315 | 6.4 | 20 |
| 151 | Nonparaxial Mathieu and Weber accelerating beams. <i>Physical Review Letters</i> , 2012 , 109, 193901 | 7.4 | 224 |
| 150 | Anti-Hermitian plasmon coupling of an array of gold thin-film antennas for controlling light at the nanoscale. <i>Physical Review Letters</i> , 2012 , 109, 193902 | 7.4 | 64 |
| 149 | Symmetry breaking and optical negative index of closed nanorings. <i>Nature Communications</i> , 2012 , 3, 1180 | 17.4 | 55 |
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