

Xiang Zhang

List of Publications by Year in descending order

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336
papers

67,254
citations

902

116
h-index

677

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340
all docs

340
docs citations

340
times ranked

43207
citing authors

#	ARTICLE	IF	CITATIONS
1	Sub-Diffraction-Limited Optical Imaging with a Silver Superlens. <i>Science</i> , 2005, 308, 534-537.	6.0	3,613
2	Discovery of intrinsic ferromagnetism in two-dimensional van der Waals crystals. <i>Nature</i> , 2017, 546, 265-269.	13.7	3,260
3	A graphene-based broadband optical modulator. <i>Nature</i> , 2011, 474, 64-67.	13.7	2,956
4	Plasmon lasers at deep subwavelength scale. <i>Nature</i> , 2009, 461, 629-632.	13.7	2,277
5	Plasmon-Induced Transparency in Metamaterials. <i>Physical Review Letters</i> , 2008, 101, 047401.	2.9	2,020
6	Three-dimensional optical metamaterial with a negative refractive index. <i>Nature</i> , 2008, 455, 376-379.	13.7	2,007
7	Far-Field Optical Hyperlens Magnifying Sub-Diffraction-Limited Objects. <i>Science</i> , 2007, 315, 1686-1686.	6.0	1,895
8	Ultrasonic metamaterials with negative modulus. <i>Nature Materials</i> , 2006, 5, 452-456.	13.3	1,608
9	Janus monolayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , 2017, 12, 744-749.	15.6	1,459
10	Single-mode laser by parity-time symmetry breaking. <i>Science</i> , 2014, 346, 972-975.	6.0	1,306
11	An optical cloak made of dielectrics. <i>Nature Materials</i> , 2009, 8, 568-571.	13.3	1,263
12	Superlenses to overcome the diffraction limit. <i>Nature Materials</i> , 2008, 7, 435-441.	13.3	1,133
13	Two-dimensional magnetic crystals and emergent heterostructure devices. <i>Science</i> , 2019, 363, .	6.0	1,039
14	Photonic Spin Hall Effect at Metasurfaces. <i>Science</i> , 2013, 339, 1405-1407.	6.0	1,026
15	Near-unity photoluminescence quantum yield in MoS ₂ . <i>Science</i> , 2015, 350, 1065-1068.	6.0	993
16	An ultrathin invisibility skin cloak for visible light. <i>Science</i> , 2015, 349, 1310-1314.	6.0	924
17	Metamaterials: a new frontier of science and technology. <i>Chemical Society Reviews</i> , 2011, 40, 2494.	18.7	855
18	Negative Refractive Index in Chiral Metamaterials. <i>Physical Review Letters</i> , 2009, 102, 023901.	2.9	847

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19	Probing excitonic dark states in single-layer tungsten disulphide. Nature, 2014, 513, 214-218.	13.7	835
20	Optical Negative Refraction in Bulk Metamaterials of Nanowires. Science, 2008, 321, 930-930.	6.0	798
21	Switching terahertz waves with gate-controlled active graphene metamaterials. Nature Materials, 2012, 11, 936-941.	13.3	777
22	Double-Layer Graphene Optical Modulator. Nano Letters, 2012, 12, 1482-1485.	4.5	731
23	Observation of piezoelectricity in free-standing monolayer MoS ₂ . Nature Nanotechnology, 2015, 10, 151-155.	15.6	685
24	Edge Nonlinear Optics on a MoS ₂ Atomic Monolayer. Science, 2014, 344, 488-490.	6.0	631
25	Experimental demonstration of an acoustic magnifying hyperlens. Nature Materials, 2009, 8, 931-934.	13.3	612
26	Structural phase transition in monolayer MoTe ₂ driven by electrostatic doping. Nature, 2017, 550, 487-491.	13.7	548
27	Room-temperature sub-diffraction-limited plasmon laser by total internal reflection. Nature Materials, 2011, 10, 110-113.	13.3	546
28	Focusing Surface Plasmons with a Plasmonic Lens. Nano Letters, 2005, 5, 1726-1729.	4.5	539
29	Plasmonic Nanolithography. Nano Letters, 2004, 4, 1085-1088.	4.5	536
30	Hyperbolic metamaterials and their applications. Progress in Quantum Electronics, 2015, 40, 1-40.	3.5	535
31	Monolayer excitonic laser. Nature Photonics, 2015, 9, 733-737.	15.6	492
32	Enhanced ferroelectricity in ultrathin films grown directly on silicon. Nature, 2020, 580, 478-482.	13.7	486
33	Valley photonic crystals for control of spin and topology. Nature Materials, 2017, 16, 298-302.	13.3	456
34	Double-negative-index ceramic aerogels for thermal superinsulation. Science, 2019, 363, 723-727.	6.0	429
35	Weaving of organic threads into a crystalline covalent organic framework. Science, 2016, 351, 365-369.	6.0	427
36	High-Q surface-plasmon-polariton whispering-gallery microcavity. Nature, 2009, 457, 455-458.	13.7	422

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37	Photoinduced handedness switching in terahertz chiral metamolecules. Nature Communications, 2012, 3, 942.	5.8	407
38	Method for retrieving effective properties of locally resonant acoustic metamaterials. Physical Review B, 2007, 76, .	1.1	398
39	Far-Field Optical Superlens. Nano Letters, 2007, 7, 403-408.	4.5	372
40	Ultra-compact silicon nanophotonic modulator with broadband response. Nanophotonics, 2012, 1, 17-22.	2.9	372
41	Spherical hyperlens for two-dimensional sub-diffractive imaging at visible frequencies. Nature Communications, 2010, 1, 143.	5.8	366
42	Single-crystalline layered metal-halide perovskite nanowires for ultrasensitive photodetectors. Nature Electronics, 2018, 1, 404-410.	13.1	351
43	Surface Plasmon Interference Nanolithography. Nano Letters, 2005, 5, 957-961.	4.5	347
44	Intrinsic Two-Dimensional Ferroelectricity with Dipole Locking. Physical Review Letters, 2018, 120, 227601.	2.9	322
45	Light-driven nanoscale plasmonic motors. Nature Nanotechnology, 2010, 5, 570-573.	15.6	317
46	Experimental realization of three-dimensional indefinite cavities at the nanoscale with anomalous scaling laws. Nature Photonics, 2012, 6, 450-454.	15.6	316
47	Anomalously low electronic thermal conductivity in metallic vanadium dioxide. Science, 2017, 355, 371-374.	6.0	307
48	Flying plasmonic lens in the near field for high-speed nanolithography. Nature Nanotechnology, 2008, 3, 733-737.	15.6	298
49	Mimicking celestial mechanics in metamaterials. Nature Physics, 2009, 5, 687-692.	6.5	298
50	Cloaking of Matter Waves. Physical Review Letters, 2008, 100, 123002.	2.9	296
51	Nonparaxial Mathieu and Weber Accelerating Beams. Physical Review Letters, 2012, 109, 193901.	2.9	296
52	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:mi mathvariant="script"} \rangle P \langle \text{mml:mi} \text{mathvariant="script"} \rangle T \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -Symmetric Acoustics. Physical Review X, 2014, 4, .	2.8	295
53	Lasing and anti-lasing in a single cavity. Nature Photonics, 2016, 10, 796-801.	15.6	276
54	Plasmonic Luneburg and Eaton lenses. Nature Nanotechnology, 2011, 6, 151-155.	15.6	274

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55	Toward integrated plasmonic circuits. <i>MRS Bulletin</i> , 2012, 37, 728-738.	1.7	269
56	Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2021, .	2.2	269
57	Imaging properties of a metamaterial superlens. <i>Applied Physics Letters</i> , 2003, 82, 161-163.	1.5	266
58	Electrical generation and control of the valley carriers in a monolayer transition metal dichalcogenide. <i>Nature Nanotechnology</i> , 2016, 11, 598-602.	15.6	259
59	Phase Mismatch-Free Nonlinear Propagation in Optical Zero-Index Materials. <i>Science</i> , 2013, 342, 1223-1226.	6.0	255
60	Large-scale chemical assembly of atomically thin transistors and circuits. <i>Nature Nanotechnology</i> , 2016, 11, 954-959.	15.6	251
61	Plasmon lasers: coherent light source at molecular scales. <i>Laser and Photonics Reviews</i> , 2013, 7, 1-21.	4.4	248
62	Split ring resonator sensors for infrared detection of single molecular monolayers. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	246
63	Predicting nonlinear properties of metamaterials from the linear response. <i>Nature Materials</i> , 2015, 14, 379-383.	13.3	243
64	Probing the electromagnetic field of a 15-nanometre hotspot by single molecule imaging. <i>Nature</i> , 2011, 469, 385-388.	13.7	240
65	Acoustic rainbow trapping. <i>Scientific Reports</i> , 2013, 3, .	1.6	240
66	Roadmap on plasmonics. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 043001.	1.0	240
67	Large positive and negative lateral optical beam displacements due to surface plasmon resonance. <i>Applied Physics Letters</i> , 2004, 85, 372-374.	1.5	230
68	Transformational Plasmon Optics. <i>Nano Letters</i> , 2010, 10, 1991-1997.	4.5	229
69	Accessing the exceptional points of parity-time symmetric acoustics. <i>Nature Communications</i> , 2016, 7, 11110.	5.8	229
70	High-Performance Single-Crystalline Perovskite Thin-Film Photodetector. <i>Advanced Materials</i> , 2018, 30, 1704333.	11.1	225
71	Multiferroicity in atomic van der Waals heterostructures. <i>Nature Communications</i> , 2019, 10, 2657.	5.8	224
72	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.	3.3	220

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73	All-angle negative refraction and imaging in a bulk medium made of metallic nanowires in the visible region. <i>Optics Express</i> , 2008, 16, 15439.	1.7	219
74	Observation of chiral phonons. <i>Science</i> , 2018, 359, 579-582.	6.0	217
75	Experimental demonstration of low-loss optical waveguiding at deep sub-wavelength scales. <i>Nature Communications</i> , 2011, 2, .	5.8	216
76	Optical Forces in Hybrid Plasmonic Waveguides. <i>Nano Letters</i> , 2011, 11, 321-328.	4.5	213
77	Self-amplifying autocrine actions of BDNF in axon development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18430-18435.	3.3	210
78	Plasmonic Airy beams with dynamically controlled trajectories. <i>Optics Letters</i> , 2011, 36, 3191.	1.7	204
79	High thermoelectric power factor in two-dimensional crystals of MoS_2 . <i>Physical Review B</i> , 2017, 95, .	1.1	201
80	Surface resonant states and superlensing in acoustic metamaterials. <i>Physical Review B</i> , 2007, 75, .	1.1	200
81	Terahertz plasmonic high pass filter. <i>Applied Physics Letters</i> , 2003, 83, 201-203.	1.5	197
82	Large quantum superpositions of a levitated nanodiamond through spin-optomechanical coupling. <i>Physical Review A</i> , 2013, 88, .	1.0	195
83	Development of optical hyperlens for imaging below the diffraction limit. <i>Optics Express</i> , 2007, 15, 15886.	1.7	192
84	Ten years of spasers and plasmonic nanolasers. <i>Light: Science and Applications</i> , 2020, 9, 90.	7.7	192
85	Generation of acoustic self-bending and bottle beams by phase engineering. <i>Nature Communications</i> , 2014, 5, 4316.	5.8	189
86	Explosives detection in a lasing plasmon nanocavity. <i>Nature Nanotechnology</i> , 2014, 9, 600-604.	15.6	188
87	Subwavelength Discrete Solitons in Nonlinear Metamaterials. <i>Physical Review Letters</i> , 2007, 99, 153901.	2.9	187
88	Patterning-Induced Ferromagnetism of Fe_3GeTe_2 van der Waals Materials beyond Room Temperature. <i>Nano Letters</i> , 2018, 18, 5974-5980.	4.5	177
89	The Metastability of an Electrochemically Controlled Nanoscale Machine on Gold Surfaces. <i>ChemPhysChem</i> , 2004, 5, 111-116.	1.0	175
90	Ultrarrow coupling-induced transparency bands in hybrid plasmonic systems. <i>Physical Review B</i> , 2009, 80, .	1.1	172

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91	Compact Magnetic Antennas for Directional Excitation of Surface Plasmons. Nano Letters, 2012, 12, 4853-4858.	4.5	165
92	Atomically phase-matched second-harmonic generation in a 2D crystal. Light: Science and Applications, 2016, 5, e16131-e16131.	7.7	165
93	Electrically induced 2D half-metallic antiferromagnets and spin field effect transistors. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8511-8516.	3.3	163
94	Rapid growth of evanescent wave by a silver superlens. Applied Physics Letters, 2003, 83, 5184-5186.	1.5	162
95	A Carpet Cloak for Visible Light. Nano Letters, 2011, 11, 2825-2828.	4.5	161
96	Maskless Plasmonic Lithography at 22-nm Resolution. Scientific Reports, 2011, 1, 175.	1.6	158
97	Observation of Stimulated Emission of Surface Plasmon Polaritons. Nano Letters, 2008, 8, 3998-4001.	4.5	157
98	Thermal conductivity and diffusivity of free-standing silicon nitride thin films. Review of Scientific Instruments, 1995, 66, 1115-1120.	0.6	154
99	Excitons in atomically thin 2D semiconductors and their applications. Nanophotonics, 2017, 6, 1309-1328.	2.9	154
100	Athermal Broadband Graphene Optical Modulator with 35 GHz Speed. ACS Photonics, 2016, 3, 1564-1568.	3.2	152
101	Two-Dimensional Imaging by Far-Field Superlens at Visible Wavelengths. Nano Letters, 2007, 7, 3360-3365.	4.5	148
102	Plasmonic Fabry-Pérot Nanocavity. Nano Letters, 2009, 9, 3489-3493.	4.5	148
103	Metasurfaces for manipulating surface plasmons. Applied Physics Letters, 2013, 103, .	1.5	139
104	Theory of the transmission properties of an optical far-field superlens for imaging beyond the diffraction limit. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 2383.	0.9	138
105	Acoustic Metamaterials. MRS Bulletin, 2008, 33, 931-934.	1.7	137
106	Space-Time Crystals of Trapped Ions. Physical Review Letters, 2012, 109, 163001.	2.9	137
107	Generation of linear and nonlinear nonparaxial accelerating beams. Optics Letters, 2012, 37, 2820.	1.7	136
108	One-way invisible cloak using parity-time symmetric transformation optics. Optics Letters, 2013, 38, 2821.	1.7	136

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109	Demonstration of a large-scale optical exceptional point structure. <i>Optics Express</i> , 2014, 22, 1760.	1.7	134
110	Unidirectional light propagation at exceptional points. <i>Nature Materials</i> , 2013, 12, 175-177.	13.3	132
111	Resonant Phase Matching of Josephson Junction Traveling Wave Parametric Amplifiers. <i>Physical Review Letters</i> , 2014, 113, 157001.	2.9	132
112	Infrared Topological Plasmons in Graphene. <i>Physical Review Letters</i> , 2017, 118, 245301.	2.9	132
113	Resonant and non-resonant generation and focusing of surface plasmons with circular gratings. <i>Optics Express</i> , 2006, 14, 5664.	1.7	131
114	Axon Initiation and Growth Cone Turning on Bound Protein Gradients. <i>Journal of Neuroscience</i> , 2009, 29, 7450-7458.	1.7	126
115	Three-dimensional nanometer-scale optical cavities of indefinite medium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11327-11331.	3.3	126
116	Temperature-Gated Thermal Rectifier for Active Heat Flow Control. <i>Nano Letters</i> , 2014, 14, 4867-4872.	4.5	126
117	Observation of acoustic Dirac-like cone and double zero refractive index. <i>Nature Communications</i> , 2017, 8, 14871.	5.8	123
118	The influences of the material properties on ceramic micro-stereolithography. <i>Sensors and Actuators A: Physical</i> , 2002, 101, 364-370.	2.0	117
119	Hybrid Photonic~Plasmonic Crystal Nanocavities. <i>ACS Nano</i> , 2011, 5, 2831-2838.	7.3	117
120	Metasurface-Enabled Remote Quantum Interference. <i>Physical Review Letters</i> , 2015, 115, 025501.	2.9	116
121	Regenerating evanescent waves from a silver superlens. <i>Optics Express</i> , 2003, 11, 682.	1.7	115
122	Magnetic hyperbolic optical metamaterials. <i>Nature Communications</i> , 2016, 7, 11329.	5.8	113
123	Compressing surface plasmons for nano-scale optical focusing. <i>Optics Express</i> , 2009, 17, 7519.	1.7	109
124	Near-field two-photon nanolithography using an apertureless optical probe. <i>Applied Physics Letters</i> , 2002, 81, 3663-3665.	1.5	108
125	Plasmonic Nearfield Scanning Probe with High Transmission. <i>Nano Letters</i> , 2008, 8, 3041-3045.	4.5	108
126	Unidirectional Spectral Singularities. <i>Physical Review Letters</i> , 2014, 113, 263905.	2.9	107

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127	Ultraslow waves on the nanoscale. <i>Science</i> , 2017, 358, .	6.0	107
128	Tuning the focus of a plasmonic lens by the incident angle. <i>Applied Physics Letters</i> , 2006, 88, 171108.	1.5	106
129	Multiplexed and Electrically Modulated Plasmon Laser Circuit. <i>Nano Letters</i> , 2012, 12, 5396-5402.	4.5	106
130	Manipulating optical rotation in extraordinary transmission by hybrid plasmonic excitations. <i>Applied Physics Letters</i> , 2008, 93, 021110.	1.5	101
131	A simple design of flat hyperlens for lithography and imaging with half-pitch resolution down to 20 nm. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	101
132	Control of Coherently Coupled Exciton Polaritons in Monolayer Tungsten Disulphide. <i>Physical Review Letters</i> , 2017, 119, 027403.	2.9	101
133	Realization of optical superlens imaging below the diffraction limit. <i>New Journal of Physics</i> , 2005, 7, 255-255.	1.2	100
134	Berry curvature memory through electrically driven stacking transitions. <i>Nature Physics</i> , 2020, 16, 1028-1034.	6.5	100
135	Nonlinear optical selection rule based on valley-exciton locking in monolayer ws_2 . <i>Light: Science and Applications</i> , 2015, 4, e366-e366.	7.7	99
136	Spotlight on Plasmon Lasers. <i>Science</i> , 2011, 333, 709-710.	6.0	95
137	Heterojunction Silicon Microwire Solar Cells. <i>Nano Letters</i> , 2012, 12, 6278-6282.	4.5	95
138	Atomic-scale ion transistor with ultrahigh diffusivity. <i>Science</i> , 2021, 372, 501-503.	6.0	95
139	Strongly Enhanced Molecular Fluorescence inside a Nanoscale Waveguide Gap. <i>Nano Letters</i> , 2011, 11, 4907-4911.	4.5	94
140	Nonlinear Quantum Optics in a Waveguide: Distinct Single Photons Strongly Interacting at the Single Atom Level. <i>Physical Review Letters</i> , 2011, 106, 113601.	2.9	94
141	Optical and acoustic metamaterials: superlens, negative refractive index and invisibility cloak. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 084007.	1.0	94
142	Broad Band Two-Dimensional Manipulation of Surface Plasmons. <i>Nano Letters</i> , 2009, 9, 462-466.	4.5	93
143	Projecting deep-subwavelength patterns from diffraction-limited masks using metal-dielectric multilayers. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	90
144	Recent advances in transformation optics. <i>Nanoscale</i> , 2012, 4, 5277.	2.8	89

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145	Exciton-dominant electroluminescence from a diode of monolayer MoS ₂ . Applied Physics Letters, 2014, 104, .	1.5	86
146	Broad Band Focusing and Demultiplexing of In-Plane Propagating Surface Plasmons. Nano Letters, 2011, 11, 4357-4361.	4.5	85
147	Ultrafast acousto-plasmonic control and sensing in complex nanostructures. Nature Communications, 2014, 5, 4042.	5.8	84
148	Contribution of the electric quadrupole resonance in optical metamaterials. Physical Review B, 2008, 78, .	1.1	80
149	Deep Subwavelength Terahertz Waveguides Using Gap Magnetic Plasmon. Physical Review Letters, 2009, 102, 043904.	2.9	80
150	Epitaxial Single-Layer MoS ₂ on GaN with Enhanced Valley Helicity. Advanced Materials, 2018, 30, 1703888.	11.1	80
151	Local electric field enhancement during nanofocusing of plasmons by a tapered gap. Physical Review B, 2007, 75, .	1.1	79
152	Ray Optics at a Deep-Subwavelength Scale: A Transformation Optics Approach. Nano Letters, 2008, 8, 4243-4247.	4.5	79
153	Feedback-driven self-assembly of symmetry-breaking optical metamaterials in solution. Nature Nanotechnology, 2014, 9, 1002-1006.	15.6	79
154	Solar energy enhancement using down-converting particles: A rigorous approach. Journal of Applied Physics, 2011, 109, .	1.1	78
155	Anti-Hermitian Plasmon Coupling of an Array of Gold Thin-Film Antennas for Controlling Light at the Nanoscale. Physical Review Letters, 2012, 109, 193902.	2.9	77
156	Optical negative refraction by four-wave mixing in thin metallic nanostructures. Nature Materials, 2012, 11, 34-38.	13.3	77
157	Oblique-plane single-molecule localization microscopy for tissues and small intact animals. Nature Methods, 2019, 16, 853-857.	9.0	77
158	Large spontaneous-emission enhancements in metallic nanostructures: towards LEDs faster than lasers [Invited]. Optics Express, 2016, 24, 17916.	1.7	76
159	Observation of acoustic spin. National Science Review, 2019, 6, 707-712.	4.6	76
160	An Optical "Janus" Device for Integrated Photonics. Advanced Materials, 2010, 22, 2561-2564.	11.1	75
161	A Thermal Radiation Modulation Platform by Emissivity Engineering with Graded Metal-Insulator Transition. Advanced Materials, 2020, 32, e1907071.	11.1	75
162	Experimental studies of far-field superlens for sub-diffractive optical imaging. Optics Express, 2007, 15, 6947.	1.7	74

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163	Adiabatic elimination-based coupling control in densely packed subwavelength waveguides. Nature Communications, 2015, 6, 7565.	5.8	74
164	Phonon heat transfer across a vacuum through quantum fluctuations. Nature, 2019, 576, 243-247.	13.7	74
165	Direct observation of Klein tunneling in phononic crystals. Science, 2020, 370, 1447-1450.	6.0	73
166	Giant Suppression of Photobleaching for Single Molecule Detection via the Purcell Effect. Nano Letters, 2013, 13, 5949-5953.	4.5	69
167	Experimental Determination of $\langle P \rangle$ and $\langle T \rangle$ -Symmetric Exceptional Points in a Single Trapped Ion. Physical Review Letters, 2021, 126, 083604.	2.9	69
168	Symmetry breaking and optical negative index of closed nanorings. Nature Communications, 2012, 3, 1180.	5.8	68
169	All Optical Interface for Parallel, Remote, and Spatiotemporal Control of Neuronal Activity. Nano Letters, 2007, 7, 3859-3863.	4.5	67
170	Nanopin Plasmonic Resonator Array and Its Optical Properties. Nano Letters, 2007, 7, 1076-1080.	4.5	67
171	Transparent Metals for Ultrabroadband Electromagnetic Waves. Advanced Materials, 2012, 24, 1980-1986.	11.1	66
172	Nanoporous silicon networks as anodes for lithium ion batteries. Physical Chemistry Chemical Physics, 2013, 15, 440-443.	1.3	65
173	A thin and conformal metasurface for illusion acoustics of rapidly changing profiles. Applied Physics Letters, 2017, 110, .	1.5	65
174	Raman Enhancement Factor of a Single Tunable Nanoplasmonic Resonator. Journal of Physical Chemistry B, 2006, 110, 3964-3968.	1.2	64
175	Midinfrared metamaterials fabricated by nanoimprint lithography. Applied Physics Letters, 2007, 90, 063107.	1.5	64
176	All-optical Hall effect by the dynamic toroidal moment in a cavity-based metamaterial. Physical Review B, 2013, 87, .	1.1	64
177	Stable Casimir equilibria and quantum trapping. Science, 2019, 364, 984-987.	6.0	63
178	Strong optical response and light emission from a monolayer molecular crystal. Nature Communications, 2019, 10, 5589.	5.8	59
179	Ultrafast modulation of optical metamaterials. Optics Express, 2009, 17, 17652.	1.7	57
180	Nonreciprocal Localization of Photons. Physical Review Letters, 2018, 120, 043901.	2.9	50

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181	Stiction problems in releasing of 3D microstructures and its solution. <i>Sensors and Actuators A: Physical</i> , 2006, 128, 109-115.	2.0	49
182	Axial Plane Optical Microscopy. <i>Scientific Reports</i> , 2014, 4, 7253.	1.6	49
183	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.	3.3	49
184	Spectral optical functions of silicon in the range of 1.13-4.96 eV at elevated temperatures. <i>International Journal of Heat and Mass Transfer</i> , 1997, 40, 1591-1600.	2.5	48
185	Gradient lithography of engineered proteins to fabricate 2D and 3D cell culture microenvironments. <i>Biomedical Microdevices</i> , 2009, 11, 1127-1134.	1.4	48
186	Subwavelength dynamic focusing in plasmonic nanostructures using time reversal. <i>Physical Review B</i> , 2009, 79, .	1.1	48
187	Self-Assembled, Nanostructured, Tunable Metamaterials via Spinodal Decomposition. <i>ACS Nano</i> , 2016, 10, 10237-10244.	7.3	47
188	Metasurface-Mediated Quantum Entanglement. <i>ACS Photonics</i> , 2018, 5, 971-976.	3.2	47
189	Perfect lenses in focus. <i>Nature</i> , 2011, 480, 42-43.	13.7	46
190	Nonvolatile MoS ₂ field effect transistors directly gated by single crystalline epitaxial ferroelectric. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	45
191	High Spatiotemporal Resolution Imaging with Localized Plasmonic Structured Illumination Microscopy. <i>ACS Nano</i> , 2018, 12, 8248-8254.	7.3	45
192	Diversifying Nanoparticle Assemblies in Supramolecule Nanocomposites Via Cylindrical Confinement. <i>Nano Letters</i> , 2017, 17, 6847-6854.	4.5	45
193	Second harmonic generation spectroscopy on two-dimensional materials [Invited]. <i>Optical Materials Express</i> , 2019, 9, 1136.	1.6	45
194	A microfabricated platform probing cytoskeleton dynamics using multidirectional topographical cues. <i>Biomedical Microdevices</i> , 2007, 9, 523-531.	1.4	44
195	Imaging visible light using anisotropic metamaterial slab lens. <i>Optics Express</i> , 2009, 17, 22380.	1.7	44
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