

Nicholas X. Fang

List of Publications by Citations

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235
papers

21,063
citations

64
h-index

144
g-index

275
ext. papers

25,069
ext. citations

8.6
avg, IF

7.05
L-index

#	Paper	IF	Citations
235	Sub-diffraction-limited optical imaging with a silver superlens. <i>Science</i> , 2005 , 308, 534-7	33.3	2990
234	Ultrasonic metamaterials with negative modulus. <i>Nature Materials</i> , 2006 , 5, 452-6	27	1288
233	Terahertz magnetic response from artificial materials. <i>Science</i> , 2004 , 303, 1494-6	33.3	1170
232	Ultralight, ultrastiff mechanical metamaterials. <i>Science</i> , 2014 , 344, 1373-7	33.3	1132
231	Ultrabroadband light absorption by a sawtooth anisotropic metamaterial slab. <i>Nano Letters</i> , 2012 , 12, 1443-7	11.5	712
230	Polaritons in layered two-dimensional materials. <i>Nature Materials</i> , 2017 , 16, 182-194	27	665
229	Broadband acoustic cloak for ultrasound waves. <i>Physical Review Letters</i> , 2011 , 106, 024301	7.4	558
228	Projection micro-stereolithography using digital micro-mirror dynamic mask. <i>Sensors and Actuators A: Physical</i> , 2005 , 121, 113-120	3.9	533
227	Multimaterial 4D Printing with Tailorable Shape Memory Polymers. <i>Scientific Reports</i> , 2016 , 6, 31110	4.9	530
226	Hydraulic hydrogel actuators and robots optically and sonically camouflaged in water. <i>Nature Communications</i> , 2017 , 8, 14230	17.4	519
225	Plasmonic Nanolithography. <i>Nano Letters</i> , 2004 , 4, 1085-1088	11.5	461
224	Focusing ultrasound with an acoustic metamaterial network. <i>Physical Review Letters</i> , 2009 , 102, 194301	7.4	415
223	Multiscale metallic metamaterials. <i>Nature Materials</i> , 2016 , 15, 1100-6	27	411
222	Highly Stretchable and UV Curable Elastomers for Digital Light Processing Based 3D Printing. <i>Advanced Materials</i> , 2017 , 29, 1606000	24	347
221	Far-field optical superlens. <i>Nano Letters</i> , 2007 , 7, 403-8	11.5	300
220	Application of plasmonic bowtie nanoantenna arrays for optical trapping, stacking, and sorting. <i>Nano Letters</i> , 2012 , 12, 796-801	11.5	283
219	Imaging properties of a metamaterial superlens. <i>Applied Physics Letters</i> , 2003 , 82, 161-163	3.4	237

218	Mechanical Metamaterials and Their Engineering Applications. <i>Advanced Engineering Materials</i> , 2019 , 21, 1800864	3.5	234
217	Lightweight Mechanical Metamaterials with Tunable Negative Thermal Expansion. <i>Physical Review Letters</i> , 2016 , 117, 175901	7.4	225
216	Ice Templated Free-Standing Hierarchically WS ₂ /CNT-rGO Aerogel for High-Performance Rechargeable Lithium and Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1601057	21.8	223
215	Ultrasoother silver thin films deposited with a germanium nucleation layer. <i>Nano Letters</i> , 2009 , 9, 178-82	11.5	222
214	A thin film broadband absorber based on multi-sized nanoantennas. <i>Applied Physics Letters</i> , 2011 , 99, 253101	3.4	220
213	Tunable Light-Matter Interaction and the Role of Hyperbolicity in Graphene-hBN System. <i>Nano Letters</i> , 2015 , 15, 3172-80	11.5	194
212	Large positive and negative lateral optical beam displacements due to surface plasmon resonance. <i>Applied Physics Letters</i> , 2004 , 85, 372-374	3.4	192
211	Nonlithographic patterning and metal-assisted chemical etching for manufacturing of tunable light-emitting silicon nanowire arrays. <i>Nano Letters</i> , 2010 , 10, 1582-8	11.5	181
210	Surface resonant states and superlensing in acoustic metamaterials. <i>Physical Review B</i> , 2007 , 75,	3.3	175
209	Terahertz plasmonic high pass filter. <i>Applied Physics Letters</i> , 2003 , 83, 201-203	3.4	167
208	High-Performance Single-Crystalline Perovskite Thin-Film Photodetector. <i>Advanced Materials</i> , 2018 , 30, 1704333	24	166
207	Reprocessible thermosets for sustainable three-dimensional printing. <i>Nature Communications</i> , 2018 , 9, 1831	17.4	164
206	First jump of microgel; actuation speed enhancement by elastic instability. <i>Soft Matter</i> , 2010 , 6, 4342	3.6	162
205	The metastability of an electrochemically controlled nanoscale machine on gold surfaces. <i>ChemPhysChem</i> , 2004 , 5, 111-6	3.2	161
204	Design and optimization of a light-emitting diode projection micro-stereolithography three-dimensional manufacturing system. <i>Review of Scientific Instruments</i> , 2012 , 83, 125001	1.7	159
203	Fast-Response, Stiffness-Tunable Soft Actuator by Hybrid Multimaterial 3D Printing. <i>Advanced Functional Materials</i> , 2019 , 29, 1806698	15.6	154
202	Tunable localized surface plasmon-enabled broadband light-harvesting enhancement for high-efficiency panchromatic dye-sensitized solar cells. <i>Nano Letters</i> , 2013 , 13, 637-42	11.5	147
201	Nonlinear optical response from arrays of Au bowtie nanoantennas. <i>Nano Letters</i> , 2011 , 11, 61-5	11.5	146

200	A micro methanol fuel cell operating at near room temperature. <i>Applied Physics Letters</i> , 2003 , 83, 4056-4058	3.4	144
199	Rapid growth of evanescent wave by a silver superlens. <i>Applied Physics Letters</i> , 2003 , 83, 5184-5186	3.4	140
198	One-step volumetric additive manufacturing of complex polymer structures. <i>Science Advances</i> , 2017 , 3, eaao5496	14.3	134
197	Nano-kirigami with giant optical chirality. <i>Science Advances</i> , 2018 , 4, eaat4436	14.3	131
196	Broadband Light Management with ThermoChromic Hydrogel Microparticles for Smart Windows. <i>Joule</i> , 2019 , 3, 290-302	27.8	129
195	Harnessing Deformation to Switch On and Off the Propagation of Sound. <i>Advanced Materials</i> , 2016 , 28, 1631-5	24	110
194	A reconfigurable plasmofluidic lens. <i>Nature Communications</i> , 2013 , 4, 2305	17.4	105
193	Thermal conductivity of silicon nanowire arrays with controlled roughness. <i>Journal of Applied Physics</i> , 2012 , 112, 114306	2.5	105
192	Regenerating evanescent waves from a silver superlens. <i>Optics Express</i> , 2003 , 11, 682-7	3.3	105
191	Breaking the barriers: advances in acoustic functional materials. <i>National Science Review</i> , 2018 , 5, 159-182	20.8	102
190	Enabling ideal selective solar absorption with 2D metallic dielectric photonic crystals. <i>Advanced Materials</i> , 2014 , 26, 8041-5	24	98
189	Imaging of plasmonic modes of silver nanoparticles using high-resolution cathodoluminescence spectroscopy. <i>ACS Nano</i> , 2009 , 3, 2965-74	16.7	98
188	Highly stretchable hydrogels for UV curing based high-resolution multimaterial 3D printing. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 3246-3253	7.3	96
187	Near-field two-photon nanolithography using an apertureless optical probe. <i>Applied Physics Letters</i> , 2002 , 81, 3663-3665	3.4	96
186	Magnetoactive Acoustic Metamaterials. <i>Advanced Materials</i> , 2018 , 30, e1706348	24	94
185	Infrared Topological Plasmons in Graphene. <i>Physical Review Letters</i> , 2017 , 118, 245301	7.4	92
184	Interaction of a contact resonance of microspheres with surface acoustic waves. <i>Physical Review Letters</i> , 2013 , 111, 036103	7.4	87
183	Anisotropic Complementary Acoustic Metamaterial for Canceling out Aberrating Layers. <i>Physical Review X</i> , 2014 , 4,	9.1	85

182	Realization of optical superlens imaging below the diffraction limit. <i>New Journal of Physics</i> , 2005 , 7, 255-255	7.8	78
181	Projection micro stereolithography based 3D printing and its applications. <i>International Journal of Extreme Manufacturing</i> , 2020 , 2, 022004	7.9	76
180	A digital light processing 3D printer for fast and high-precision fabrication of soft pneumatic actuators. <i>Sensors and Actuators A: Physical</i> , 2018 , 273, 285-292	3.9	76
179	Fe ₃ O ₄ quantum dot decorated MoS ₂ nanosheet arrays on graphite paper as free-standing sodium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9122-9131	13	74
178	Microarchitected Stretching-Dominated Mechanical Metamaterials with Minimal Surface Topologies. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800029	3.5	74
177	Versatile three-dimensional virus-based template for dye-sensitized solar cells with improved electron transport and light harvesting. <i>ACS Nano</i> , 2013 , 7, 6563-74	16.7	72
176	Numerical study of a near-zero-index acoustic metamaterial. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 2834-2837	2.3	70
175	A smooth optical superlens. <i>Applied Physics Letters</i> , 2010 , 96, 043102	3.4	70
174	3D printing of highly stretchable hydrogel with diverse UV curable polymers. <i>Science Advances</i> , 2021 , 7,	14.3	70
173	Topological magnetoplasmon. <i>Nature Communications</i> , 2016 , 7, 13486	17.4	68
172	Rapid multi-material 3D printing with projection micro-stereolithography using dynamic fluidic control. <i>Additive Manufacturing</i> , 2019 , 27, 606-615	6.1	64
171	Electrochemical nanoimprinting with solid-state superionic stamps. <i>Nano Letters</i> , 2007 , 7, 446-51	11.5	63
170	High-Efficiency High-Resolution Multimaterial Fabrication for Digital Light Processing-Based Three-Dimensional Printing. <i>3D Printing and Additive Manufacturing</i> , 2018 , 5, 185-193	4	62
169	Optical and acoustic metamaterials: superlens, negative refractive index and invisibility cloak. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 084007	1.7	60
168	Liquid-Crystal-Elastomer-Based Dissipative Structures by Digital Light Processing 3D Printing. <i>Advanced Materials</i> , 2020 , 32, e2000797	24	57
167	Midinfrared metamaterials fabricated by nanoimprint lithography. <i>Applied Physics Letters</i> , 2007 , 90, 063107	10.7	56
166	Assembly of a bacteriophage-based template for the organization of materials into nanoporous networks. <i>Advanced Materials</i> , 2014 , 26, 3398-404	24	55
165	Chiral plasmon in gapped Dirac systems. <i>Physical Review B</i> , 2016 , 93,	3.3	53

164	Miniature Pneumatic Actuators for Soft Robots by High-Resolution Multimaterial 3D Printing. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900427	6.8	52
163	Functional Molecularly Imprinted Polymer Microstructures Fabricated Using Microstereolithography. <i>Advanced Materials</i> , 2003 , 15, 1541-1544	24	52
162	Diffusion-limited photopolymerization in scanning micro-stereolithography. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 79, 1839-1842	2.6	51
161	Engineered 3D-printed artificial axons. <i>Scientific Reports</i> , 2018 , 8, 478	4.9	50
160	Silicon nanowires with controlled sidewall profile and roughness fabricated by thin-film dewetting and metal-assisted chemical etching. <i>Nanotechnology</i> , 2013 , 24, 225305	3.4	50
159	Prescribed pattern transformation in swelling gel tubes by elastic instability. <i>Physical Review Letters</i> , 2012 , 108, 214304	7.4	48
158	Stiction problems in releasing of 3D microstructures and its solution. <i>Sensors and Actuators A: Physical</i> , 2006 , 128, 109-115	3.9	45
157	Elastic wave propagation in finitely deformed layered materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2017 , 98, 390-410	5	43
156	Promoting polysulfide conversion by catalytic ternary Fe ₃ O ₄ /carbon/graphene composites with ordered microchannels for ultrahigh-rate lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25078-25087	13	43
155	Photopolymer formulation to minimize feature size, surface roughness, and stair-stepping in digital light processing-based three-dimensional printing. <i>Additive Manufacturing</i> , 2018 , 24, 627-638	6.1	43
154	Structural multi-colour invisible inks with submicron 4D printing of shape memory polymers. <i>Nature Communications</i> , 2021 , 12, 112	17.4	42
153	Sub-100 nm lithography using ultrashort wavelength of surface plasmons. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004 , 22, 3475		41
152	Dynamic thermal camouflage via a liquid-crystal-based radiative metasurface. <i>Nanophotonics</i> , 2020 , 9, 855-863	6.3	38
151	Terahertz plasmonics in ferroelectric-gated graphene. <i>Applied Physics Letters</i> , 2013 , 102, 201118	3.4	38
150	Mechanically Robust and UV-Curable Shape-Memory Polymers for Digital Light Processing Based 4D Printing. <i>Advanced Materials</i> , 2021 , 33, e2101298	24	38
149	Formation of fine near-field scanning optical microscopy tips. Part I. By static and dynamic chemical etching. <i>Review of Scientific Instruments</i> , 2003 , 74, 3679-3683	1.7	37
148	Quantum-Spillover-Enhanced Surface-Plasmonic Absorption at the Interface of Silver and High-Index Dielectrics. <i>Physical Review Letters</i> , 2015 , 115, 193901	7.4	34
147	Position-sensitive spectral splitting with a plasmonic nanowire on silicon chip. <i>Scientific Reports</i> , 2013 , 3, 3095	4.9	34

146	Extraordinary focusing of sound above a soda can array without time reversal. <i>New Journal of Physics</i> , 2015 , 17, 042001	2.9	33
145	Anisotropically Fatigue-Resistant Hydrogels. <i>Advanced Materials</i> , 2021 , 33, e2102011	24	33
144	Ultrafast Three-Dimensional Printing of Optically Smooth Microlens Arrays by Oscillation-Assisted Digital Light Processing. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40662-40668	9.5	32
143	3D Printed Compressible Quasi-Solid-State Nickel-Iron Battery. <i>ACS Nano</i> , 2020 , 14, 9675-9686	16.7	32
142	Localized Surface Plasmon-Enhanced Ultrathin Film Broadband Nanoporous Absorbers. <i>Advanced Optical Materials</i> , 2016 , 4, 1255-1264	8.1	32
141	Employing the biology of successful fracture repair to heal critical size bone defects. <i>Current Topics in Microbiology and Immunology</i> , 2013 , 367, 113-32	3.3	31
140	Polymeric micromechanical components with tunable stiffness. <i>Applied Physics Letters</i> , 2001 , 79, 1700-1702	3.02	29
139	3D microfabricated bioreactor with capillaries. <i>Biomedical Microdevices</i> , 2009 , 11, 1309-15	3.7	28
138	Bioinspired Ultra-Low Adhesive Energy Interface for Continuous 3D Printing: Reducing Curing Induced Adhesion. <i>Research</i> , 2018 , 2018, 4795604	7.8	28
137	Bifunctional acoustic metamaterial lens designed with coordinate transformation. <i>Applied Physics Letters</i> , 2017 , 110, 113503	3.4	27
136	Molding acoustic, electromagnetic and water waves with a single cloak. <i>Scientific Reports</i> , 2015 , 5, 10678	4.9	27
135	Near-Perfect Ultrathin Nanocomposite Absorber with Self-Formed Topping Plasmonic Nanoparticles. <i>Advanced Optical Materials</i> , 2017 , 5, 1700222	8.1	27
134	Manufacturing at Nanoscale: Top-Down, Bottom-up and System Engineering. <i>Journal of Nanoparticle Research</i> , 2004 , 6, 125-130	2.3	25
133	Effective dielectric constants and spectral density analysis of plasmonic nanocomposites. <i>Journal of Applied Physics</i> , 2016 , 120, 163103	2.5	25
132	Far-field acoustic subwavelength imaging and edge detection based on spatial filtering and wave vector conversion. <i>Nature Communications</i> , 2019 , 10, 204	17.4	21
131	Polytope Sector-Based Synthesis and Analysis of Microstructural Architectures With Tunable Thermal Conductivity and Expansion. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2016 , 138,	3	20
130	Continuous 3D printing from one single droplet. <i>Nature Communications</i> , 2020 , 11, 4685	17.4	20
129	A broadband polygonal cloak for acoustic wave designed with linear coordinate transformation. <i>Journal of the Acoustical Society of America</i> , 2016 , 140, 95	2.2	20

128	Direct metal nano-imprinting using an embossed solid electrolyte stamp. <i>Nanotechnology</i> , 2011 , 22, 155302	3.2	19
127	Electromechanically reconfigurable optical nano-kirigami. <i>Nature Communications</i> , 2021 , 12, 1299	17.4	19
126	Skin-electrode iontronic interface for mechanosensing. <i>Nature Communications</i> , 2021 , 12, 4731	17.4	19
125	Multiband plasmonic absorber based on transverse phase resonances. <i>Optics Express</i> , 2012 , 20, 17552-9	3.3	18
124	Solvent-driven polymeric micro beam device. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 085030	2	18
123	Invited Article: Nano-kirigami metasurfaces by focused-ion-beam induced close-loop transformation. <i>APL Photonics</i> , 2018 , 3, 100803	5.2	18
122	Solid-state electrochemical nanoimprinting of copper. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 2419		17
121	Micro 3D printing using a digital projector and its application in the study of soft materials mechanics. <i>Journal of Visualized Experiments</i> , 2012 , e4457	1.6	16
120	Formation of fine near-field scanning optical microscopy tips. Part II. By laser-heated pulling and bending. <i>Review of Scientific Instruments</i> , 2003 , 74, 3684-3688	1.7	16
119	Color-Changeable Four-Dimensional Printing Enabled with Ultraviolet-Curable and Thermochromic Shape Memory Polymers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 18120-18127	9.5	16
118	Time-domain imaging of gigahertz surface waves on an acoustic metamaterial. <i>New Journal of Physics</i> , 2018 , 20, 013026	2.9	15
117	Metagel with Broadband Tunable Acoustic Properties Over Air/Water/Solid Ranges. <i>Advanced Functional Materials</i> , 2019 , 29, 1903699	15.6	15
116	Electron-photon scattering mediated by localized plasmons: A quantitative analysis by eigen-response theory. <i>Physical Review B</i> , 2014 , 89,	3.3	15
115	Fractal-Based Stretchable Circuits via Electric-Field-Driven Microscale 3D Printing for Localized Heating of Shape Memory Polymers in 4D Printing. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41414-41423	9.5	15
114	Three-Dimensional Soundproof Acoustic Metacage. <i>Physical Review Letters</i> , 2021 , 127, 084301	7.4	14
113	Nonlocal description of sound propagation through an array of Helmholtz resonators. <i>Comptes Rendus - Mecanique</i> , 2015 , 343, 656-669	2.1	13
112	Optical torque from enhanced scattering by multipolar plasmonic resonance. <i>Nanophotonics</i> , 2014 , 3, 343-350	6.3	13
111	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

110	Fully three-dimensional microfabrication with a grayscale polymeric self-sacrificial structure. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 115029	2	13
109	Experimental study of transmission enhancement of evanescent waves through silver films assisted by surface plasmon excitation. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 80, 1315-1325	2.6	13
108	On the interplay between physical and content priors in deep learning for computational imaging. <i>Optics Express</i> , 2020 , 28, 24152-24170	3.3	13
107	Reproducibility of sound-absorbing periodic porous materials using additive manufacturing technologies: Round robin study. <i>Additive Manufacturing</i> , 2020 , 36, 101564	6.1	13
106	Chemomechanics of dual-stage reprocessable thermosets. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 126, 168-186	5	13
105	Design of 3D Printed Programmable Horseshoe Lattice Structures Based on a Phase-Evolution Model. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 22146-22156	9.5	12
104	Foreshadowing elastic instabilities by negative group velocity in soft composites. <i>Applied Physics Letters</i> , 2018 , 113, 031901	3.4	12
103	Computational inverse design of non-intuitive illumination patterns to maximize optical force or torque. <i>Optics Express</i> , 2017 , 25, 6757-6766	3.3	12
102	Zeeman splitting of photonic angular momentum states in a gyromagnetic cylinder. <i>Physical Review B</i> , 2011 , 84,	3.3	12
101	Adhesion force of polymeric three-dimensional microstructures fabricated by microstereolithography. <i>Applied Physics Letters</i> , 2002 , 81, 3963-3965	3.4	12
100	Influence of treating parameters on thermomechanical properties of recycled epoxy-acid vitrimers. <i>Soft Matter</i> , 2020 , 16, 1668-1677	3.6	12
99	Constructing Multifunctional Virus-Templated Nanoporous Composites for Thin Film Solar Cells: Contributions of Morphology and Optics to Photocurrent Generation. <i>Journal of Physical Chemistry C</i> , 2015 , 150610114441003	3.8	11
98	Excitation and imaging of resonant optical modes of Au triangular nanoantennas using cathodoluminescence spectroscopy. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, C6C21-C6C25	1.3	11
97	SERS EM field enhancement study through fast Raman mapping of Sierpinski carpet arrays. <i>Journal of Raman Spectroscopy</i> , 2010 , 41, 1124-1130	2.3	11
96	Additive Manufacturing of Functional Microarchitected Reactors for Energy, Environmental, and Biological Applications. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021 , 8, 303-326	3.8	11
95	Influences of processing conditions on mechanical properties of recycled epoxy-anhydride vitrimers. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49246	2.9	10
94	Xenopus laevis as a novel model to study long bone critical-size defect repair by growth factor-mediated regeneration. <i>Tissue Engineering - Part A</i> , 2011 , 17, 691-701	3.9	10
93	New Frontiers of Metamaterials: Design and Fabrication. <i>MRS Bulletin</i> , 2008 , 33, 915-920	3.2	10

92	Projection lithography patterned high-resolution quantum dots/thiol-ene photo-polymer pixels for color down conversion. <i>Optics Express</i> , 2019 , 27, 30864-30874	3.3	10
91	Exciting multiple plasmonic resonances by a double-layered metallic nanostructure. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 2827	1.7	9
90	Ultradense gold nanostructures fabricated using hydrogen silsesquioxane resist and applications for surface-enhanced Raman spectroscopy. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, 2640		9
89	Optimal Nanoparticle Forces, Torques, and Illumination Fields. <i>ACS Photonics</i> , 2019 , 6, 395-402	6.3	9
88	Physical modeling and validation of porpoises' directional emission via hybrid metamaterials. <i>National Science Review</i> , 2019 , 6, 921-928	10.8	8
87	Nonlocal dynamics of dissipative phononic fluids. <i>Physical Review B</i> , 2017 , 95,	3.3	8
86	Transformation optics scheme for two-dimensional materials. <i>Optics Letters</i> , 2014 , 39, 2113-6	3	8
85	Solid-state superionic stamping with silver iodide-silver metaphosphate glass. <i>Nanotechnology</i> , 2011 , 22, 425301	3.4	8
84	Voxel design of additively manufactured digital material with customized thermomechanical properties. <i>Materials and Design</i> , 2021 , 197, 109205	8.1	8
83	The nonequilibrium behaviors of covalent adaptable network polymers during the topology transition. <i>Soft Matter</i> , 2021 , 17, 2104-2119	3.6	8
82	Computational modelling of process-structure-property-performance relationships in metal additive manufacturing: a review. <i>International Materials Reviews</i> , 1-46	16.1	8
81	Broadband light absorption by silver nanoparticle decorated silica nanospheres. <i>RSC Advances</i> , 2016 , 6, 107951-107959	3.7	7
80	Topological kink plasmons on magnetic-domain boundaries. <i>Nature Communications</i> , 2019 , 10, 4565	17.4	7
79	Photon emission rate engineering using graphene nanodisc cavities. <i>Optics Express</i> , 2014 , 22, 6400-15	3.3	7
78	Wide-Angle Broadband Nonreflecting Acoustic Metamaterial Fence. <i>Physical Review Applied</i> , 2020 , 13,	4.3	6
77	Muscle-fiber array inspired, multiple-mode, pneumatic artificial muscles through planar design and one-step rolling fabrication. <i>National Science Review</i> , 2021 , 8, nwab048	10.8	6
76	Photosynthesis-assisted remodeling of three-dimensional printed structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	6
75	Switching Acoustic Propagation via Underwater Metasurface. <i>Physical Review Applied</i> , 2020 , 13,	4.3	5

74	Electromagnetic and Chemical Enhancements of Surface-Enhanced Raman Scattering Spectra from Cu ₂ O Hexagonal Nanoplates. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900534	4.6	5
73	Plasmonic nanofluids enhanced solar thermal transfer liquid 2017 ,		5
72	Mediated Growth of Zinc Chalcogen Shells on Gold Nanoparticles by Free-Base Amino Acids. <i>Chemistry of Materials</i> , 2017 , 29, 6993-7001	9.6	5
71	Comment on Submicron imaging with a planar silver lens[Appl. Phys. Lett. 84, 4403 (2004)]. <i>Applied Physics Letters</i> , 2005 , 86, 126101	3.4	5
70	Shaping soft materials via digital light processing-based 3D printing: A review. <i>Forces in Mechanics</i> , 2022 , 6, 100074	1.5	5
69	Grayscale stencil lithography for patterning multispectral color filters. <i>Optica</i> , 2020 , 7, 1154	8.6	5
68	Bioinspired metagel with broadband tunable impedance matching. <i>Science Advances</i> , 2020 , 6,	14.3	5
67	Three-Dimensional Stretchable Microelectronics by Projection Microstereolithography (PBL). <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8901-8908	9.5	5
66	Scalable 3D printing of aperiodic cellular structures by rotational stacking of integral image formation. <i>Science Advances</i> , 2021 , 7, eabh1200	14.3	5
65	Subwavelength image manipulation through an oblique layered system. <i>Optics Express</i> , 2011 , 19, 16809-30	3.9	4
64	Sub-diffraction-limited far-field imaging in infrared. <i>Frontiers of Physics in China</i> , 2010 , 5, 324-329		4
63	Plasmon-Assisted Optical Curtains. <i>Plasmonics</i> , 2010 , 5, 369-374	2.4	4
62	Molecular Scale Imaging with a Multilayer Superlens. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 919, 7		4
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60	High-precision broadband measurement of refractive index by picosecond real-time interferometry. <i>Applied Optics</i> , 2016 , 55, 6625-9	0.2	4
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