L Jay Guo

List of Publications by Citations

271 papers	13,159 citations	61 h-index	107 g-index
319 ext. papers	15,014 ext. citations	7.7 avg, IF	6.95 L-index

#	Paper	IF	Citations
271	Plasmonic nanoresonators for high-resolution colour filtering and spectral imaging. *Nature Communications*, **2010**, 1, 59	17.4	570
270	Recent progress in nanoimprint technology and its applications. *Journal Physics D: Applied Physics*, **2004**, 37, R123-R141	3	565
269	High-Speed Roll-to-Roll Nanoimprint Lithography on Flexible Plastic Substrates. *Advanced Materials* , **2008**, 20, 2044-2049	24	513
268	Large-area roll-to-roll and roll-to-plate nanoimprint lithography: a step toward high-throughput application of continuous nanoimprinting. *ACS Nano*, **2009**, 3, 2304-10	16.7	493
267	Organic Solar Cells Using Nanoimprinted Transparent Metal Electrodes. *Advanced Materials*, **2008**, 20, 4408-4413	24	454
266	Biochemical sensors based on polymer microrings with sharp asymmetrical resonance. *Applied Physics Letters*, **2003**, 83, 1527-1529	3.4	364
265	Efficiency enhancement of organic solar cells using transparent plasmonic Ag nanowire electrodes. *Advanced Materials*, **2010**, 22, 4378-83	24	313
264	Fabrication of Size-Controllable Nanofluidic Channels by Nanoimprinting and Its Application for DNA Stretching. *Nano Letters*, **2004**, 4, 69-73	11.5	262
263	High performance bianisotropic metasurfaces: asymmetric transmission of light. *Physical Review Letters*, **2014**, 113, 023902	7.4	259
262	Nanoscale Protein Patterning by Imprint Lithography. *Nano Letters*, **2004**, 4, 853-857	11.5	251
261	Nanofluidic diodes. *Chemical Society Reviews*, **2010**, 39, 923-38	58.5	247
260	Transparent Cu nanowire mesh electrode on flexible substrates fabricated by transfer printing and its application in organic solar cells. *Solar Energy Materials and Solar Cells*, **2010**, 94, 1179-1184	6.4	203
259	Angle-insensitive structural colours based on metallic nanocavities and coloured pixels beyond the diffraction limit. *Scientific Reports*, **2013**, 3, 1194	4.9	172
258	Experiment and Theory of the Broadband Absorption by a Tapered Hyperbolic Metamaterial Array. *ACS Photonics*, **2014**, 1, 618-624	6.3	170
257	Rectified ion transport through concentration gradient in homogeneous silica nanochannels. *Nano Letters*, **2007**, 7, 3165-71	11.5	170
256	An ultrathin, smooth, and low-loss Al-doped Ag film and its application as a transparent electrode in organic photovoltaics. *Advanced Materials*, **2014**, 26, 5696-701	24	167
255	Ionic current rectification, breakdown, and switching in heterogeneous oxide nanofluidic devices. *ACS Nano*, **2009**, 3, 575-84	16.7	162

254	Flexible conjugated polymer photovoltaic cells with controlled heterojunctions fabricated using nanoimprint lithography. *Applied Physics Letters*, **2007**, 90, 123113	3.4	157
253	Photonic color filters integrated with organic solar cells for energy harvesting. *ACS Nano*, **2011**, 5, 7055-60	13.7	146
252	High efficiency resonance-based spectrum filters with tunable transmission bandwidth fabricated using nanoimprint lithography. *Applied Physics Letters*, **2011**, 99, 143111	3.4	141
251	High-Performance Flexible Transparent Electrode with an Embedded Metal Mesh Fabricated by Cost-Effective Solution Process. *Small*, **2016**, 12, 3021-30	11	140
250	Structural colors: from plasmonic to carbon nanostructures. *Small*, **2011**, 7, 3128-36	11	134
249	Carbon-nanotube optoacoustic lens for focused ultrasound generation and high-precision targeted therapy. *Scientific Reports*, **2012**, 2, 989	4.9	128
248	Transparent and Flexible Polarization-Independent Microwave Broadband Absorber. *ACS Photonics*, **2014**, 1, 279-284	6.3	127
247	A facile route to polymer solar cells with optimum morphology readily applicable to a roll-to-roll process without sacrificing high device performances. *Advanced Materials*, **2010**, 22, E247-53	24	121
246	Polymer microring resonators fabricated by nanoimprint technique. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2002**, 20, 2862		118
245	Engineering Light at the Nanoscale: Structural Color Filters and Broadband Perfect Absorbers. *Advanced Optical Materials*, **2017**, 5, 1700368	8.1	113
244	Nanoimprint Lithography Based Approach for the Fabrication of Large-Area, Uniformly-Oriented Plasmonic Arrays. *Advanced Materials*, **2008**, 20, 1129-1134	24	112
243	Simple hydrothermal synthesis of very-long and thin silver nanowires and their application in high quality transparent electrodes. *Journal of Materials Chemistry A*, **2016**, 4, 11365-11371	13	105
242	Ultrasmooth and thermally stable silver-based thin films with subnanometer roughness by aluminum doping. *ACS Nano*, **2014**, 8, 10343-51	16.7	104
241	Fabrication and characterization of high Q polymer micro-ring resonator and its application as a sensitive ultrasonic detector. *Optics Express*, **2011**, 19, 861-9	3.3	102
240	Bilayer metal wire-grid polarizer fabricated by roll-to-roll nanoimprint lithography on flexible plastic substrate. *Journal of Vacuum Science & Technology B*, **2007**, 25, 2388		97
239	One-step lithography for various size patterns with a hybrid mask-mold. *Microelectronic Engineering* , **2004**, 71, 288-293	2.5	97
238	Carbon nanotube composite optoacoustic transmitters for strong and high frequency ultrasound generation. *Applied Physics Letters*, **2010**, 97, 234104	3.4	95
237	Colored ultrathin hybrid photovoltaics with high quantum efficiency. *Light: Science and Applications*, **2014**, 3, e215-e215	16.7	94

236	A combined-nanoimprint-and-photolithography patterning technique. *Microelectronic Engineering*, **2004**, 71, 277-282	2.5	90
235	Strong resonance effect in a lossy medium-based optical cavity for angle robust spectrum filters. *Advanced Materials*, **2014**, 26, 6324-8	24	85
234	Micron-scale organic thin film transistors with conducting polymer electrodes patterned by polymer inking and stamping. *Applied Physics Letters*, **2006**, 88, 063513	3.4	85
233	Boosted ultraviolet electroluminescence of InGaN/AlGaN quantum structures grown on high-index contrast patterned sapphire with silica array. *Nano Energy*, **2020**, 69, 104427	17.1	83
232	High-Color-Purity Subtractive Color Filters with a Wide Viewing Angle Based on Plasmonic Perfect Absorbers. *Advanced Optical Materials*, **2015**, 3, 347-352	8.1	80
231	Low density carbon nanotube forest as an index-matched and near perfect absorption coating. *Applied Physics Letters*, **2011**, 99, 211103	3.4	80
230	Large area high density sub-20 nm SiO(2) nanostructures fabricated by block copolymer template for nanoimprint lithography. *ACS Nano*, **2009**, 3, 2601-8	16.7	80
229	Choice of electrode geometry for accurate measurement of organic photovoltaic cell performance. *Applied Physics Letters*, **2008**, 92, 133301	3.4	80
228	Ultrabroad Bandwidth and Highly Sensitive Optical Ultrasonic Detector for Photoacoustic Imaging. *ACS Photonics*, **2014**, 1, 1093-1098	6.3	78
227	High-frequency ultrasound sensors using polymer microring resonators. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2007**, 54, 957-65	3.2	77
226	Compact Multilayer Film Structures for Ultrabroadband, Omnidirectional, and Efficient Absorption. *ACS Photonics*, **2016**, 3, 590-596	6.3	77
225	Continuous and scalable fabrication of flexible metamaterial films via roll-to-roll nanoimprint process for broadband plasmonic infrared filters. *Applied Physics Letters*, **2012**, 101, 223102	3.4	76
224	Colored, see-through perovskite solar cells employing an optical cavity. *Journal of Materials Chemistry C*, **2015**, 3, 5377-5382	7.1	73
223	Pure optical photoacoustic microscopy. *Optics Express*, **2011**, 19, 9027-34	3.3	73
222	Optimization of thermally reduced graphene oxide for an efficient hole transport layer in polymer solar cells. *Organic Electronics*, **2013**, 14, 591-598	3.5	72
221	Decorative power generating panels creating angle insensitive transmissive colors. *Scientific Reports*, **2014**, 4, 4192	4.9	71
220	Photo-roll lithography (PRL) for continuous and scalable patterning with application in flexible electronics. *Advanced Materials*, **2013**, 25, 6554-61	24	71
219	Optical generation of high frequency ultrasound using two-dimensional gold nanostructure. *Applied Physics Letters*, **2006**, 89, 093901	3.4	71

218	High-sensitivity and wide-directivity ultrasound detection using high Q polymer microring resonators. *Applied Physics Letters*, **2011**, 98, 204103	3.4	70
217	Efficient real-time detection of terahertz pulse radiation based on photoacoustic conversion by carbon nanotube nanocomposite. *Nature Photonics*, **2014**, 8, 537-542	33.9	66
216	Broadband all-optical ultrasound transducers. *Applied Physics Letters*, **2007**, 91, 073507	3.4	66
215	Ultrathin metal-semiconductor-metal resonator for angle invariant visible band transmission filters. *Applied Physics Letters*, **2014**, 104, 231112	3.4	65
214	High-Performance Doped Silver Films: Overcoming Fundamental Material Limits for Nanophotonic Applications. *Advanced Materials*, **2017**, 29, 1605177	24	64
213	Enhanced Light Utilization in Semitransparent Organic Photovoltaics Using an Optical Outcoupling Architecture. *Advanced Materials*, **2019**, 31, e1903173	24	64
212	Highly efficient and reliable high power LEDs with patterned sapphire substrate and strip-shaped distributed current blocking layer. *Applied Surface Science*, **2015**, 355, 1013-1019	6.7	61
211	Toward Low-Cost, High-Efficiency, and Scalable Organic Solar Cells with Transparent Metal Electrode and Improved Domain Morphology. *IEEE Journal of Selected Topics in Quantum Electronics* , **2010**, 16, 1807-1820	3.8	61
210	High performance broadband absorber in the visible band by engineered dispersion and geometry of a metal-dielectric-metal stack. *Applied Physics Letters*, **2012**, 101, 241116	3.4	60
209	All-optical scanhead for ultrasound and photoacoustic dual-modality imaging. *Optics Express*, **2012**, 20, 1588-96	3.3	58
208	Printed photonic elements: nanoimprinting and beyond. *Journal of Materials Chemistry C*, **2016**, 4, 5133-5153	7.1	58
207	High-Performance Ta2O5/Al-Doped Ag Electrode for Resonant Light Harvesting in Efficient Organic Solar Cells. *Advanced Energy Materials*, **2015**, 5, 1500768	21.8	57
206	Organic photovoltaic cells: from performance improvement to manufacturing processes. *Small*, **2015**, 11, 2228-46	11	57
205	Highly efficient guiding of microtubule transport with imprinted CYTOP nanotracks. *Small*, **2005**, 1, 409-14	11	57
204	Polarization rotation with ultra-thin bianisotropic metasurfaces. *Optica*, **2016**, 3, 427	8.6	57
203	High-resolution functional epoxysilsesquioxane-based patterning layers for large-area nanoimprinting. *ACS Nano*, **2010**, 4, 4776-84	16.7	53
202	Semitransparent Cu electrode on a flexible substrate and its application in organic light emitting diodes. *Journal of Vacuum Science & Technology B*, **2007**, 25, 2637		53
201	High-resolution organic polymer light-emitting pixels fabricated by imprinting technique. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2002**, 20, 2877		52

200	Wide-angle, polarization-independent ultrathin broadband visible absorbers. *Applied Physics Letters*, **2016**, 108, 031107	3.4	52
199	Review of Imprinted Polymer Microrings as Ultrasound Detectors: Design, Fabrication, and Characterization. *IEEE Sensors Journal*, **2015**, 15, 3241-3248	4	51
198	Ultrasound detection using polymer microring optical resonator. *Applied Physics Letters*, **2004**, 85, 5418-5420	3.4	51
197	Highly stable and stretchable graphene–polymer processed silver nanowires hybrid electrodes for flexible displays. *Journal of Materials Chemistry C*, **2015**, 3, 1528-1536	7.1	50
196	Integrated intravascular ultrasound and photoacoustic imaging scan head. *Optics Letters*, **2010**, 35, 2892-4	3	48
195	In vivo flow speed measurement of capillaries by photoacoustic correlation spectroscopy. *Optics Letters*, **2011**, 36, 4017-9	3	47
194	Effect of polymer aggregation on the open circuit voltage in organic photovoltaic cells: aggregation-induced conjugated polymer gel and its application for preventing open circuit voltage drop. *ACS Applied Materials & Interfaces*, **2011**, 3, 674-80	9.5	47
193	A unique resonance mode observed in a prism-coupled micro-tube resonator sensor with superior index sensitivity. *Optics Express*, **2007**, 15, 17424-32	3.3	46
192	Neutral- and Multi-Colored Semitransparent Perovskite Solar Cells. *Molecules*, **2016**, 21, 475	4.8	46
191	Highly Transparent and Broadband Electromagnetic Interference Shielding Based on Ultrathin Doped Ag and Conducting Oxides Hybrid Film Structures. *ACS Applied Materials & Interfaces*, **2019**, 11, 11782-11791	9.5	45
190	Large-Area High Aspect Ratio Plasmonic Interference Lithography Utilizing a Single High-k Mode. *ACS Nano*, **2016**, 10, 4039-45	16.7	45
189	Photoacoustic correlation spectroscopy and its application to low-speed flow measurement. *Optics Letters*, **2010**, 35, 1200-2	3	43
188	Ultrathin-metal-film-based transparent electrodes with relative transmittance surpassing 100. *Nature Communications*, **2020**, 11, 3367	17.4	42
187	Polymer Microring Resonators for High-Frequency Ultrasound Detection and Imaging. *IEEE Journal of Selected Topics in Quantum Electronics*, **2008**, 14, 191-197	3.8	42
186	All-optical photoacoustic microscopy. *Photoacoustics*, **2015**, 3, 143-150	9	41
185	Angular- and polarization-independent structural colors based on 1D photonic crystals. *Laser and Photonics Reviews*, **2015**, 9, 354-362	8.3	41
184	Continuous phase-shift lithography with a roll-type mask and application to transparent conductor fabrication. *Nanotechnology*, **2012**, 23, 344008	3.4	40
183	Low-noise wideband ultrasound detection using polymer microring resonators. *Applied Physics Letters*, **2008**, 92, 193509-1935093	3.4	40

182	A step toward next-generation nanoimprint lithography: extending productivity and applicability. *Applied Physics A: Materials Science and Processing*, **2015**, 121, 343-356	2.6	39
181	Characterization of a broadband all-optical ultrasound transducer-from optical and acoustical properties to imaging. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2008**, 55, 1867-77	3.2	39
180	Angle Robust Reflection/Transmission Plasmonic Filters Using Ultrathin Metal Patch Array. *Advanced Optical Materials*, **2016**, 4, 1981-1986	8.1	38
179	Semitransparent and Flexible Mechanically Reconfigurable Electrically Small Antennas Based on Tortuous Metallic Micromesh. *IEEE Transactions on Antennas and Propagation*, **2017**, 65, 150-158	4.9	38
178	Roll-to-roll cohesive, coated, flexible, high-efficiency polymer light-emitting diodes utilizing ITO-free polymer anodes. *Small*, **2013**, 9, 4036-44	11	38
177	Spontaneous formation of periodic nanostructures by localized dynamic wrinkling. *Nano Letters*, **2010**, 10, 4228-34	11.5	37
176	Organic thin film transistors and polymer light-emitting diodes patterned by polymer inking and stamping. *Journal Physics D: Applied Physics*, **2008**, 41, 105115	3	36
175	Nano-structural characteristics of carbon nanotube-polymer composite films for high-amplitude optoacoustic generation. *Nanoscale*, **2015**, 7, 14460-8	7.7	35
174	ITO-Free, Compact, Color Liquid Crystal Devices Using Integrated Structural Color Filters and Graphene Electrodes. *Advanced Optical Materials*, **2014**, 2, 435-441	8.1	35
173	Miniaturized all-optical photoacoustic microscopy based on microelectromechanical systems mirror scanning. *Optics Letters*, **2012**, 37, 4263-5	3	35
172	Efficient Photoacoustic Conversion in Optical Nanomaterials and Composites. *Advanced Optical Materials*, **2018**, 6, 1800491	8.1	34
171	Angle-Insensitive and CMOS-Compatible Subwavelength Color Printing. *Advanced Optical Materials*, **2016**, 4, 1696-1702	8.1	34
170	Facile route of flexible wire grid polarizer fabrication by angled-evaporations of aluminum on two sidewalls of an imprinted nanograting. *Nanotechnology*, **2012**, 23, 344018	3.4	33
169	A fiber-optic system for dual-modality photoacoustic microscopy and confocal fluorescence microscopy using miniature components. *Photoacoustics*, **2013**, 1, 30-35	9	32
168	Metal transfer assisted nanolithography on rigid and flexible substrates. *Journal of Vacuum Science & Technology B*, **2008**, 26, 2421-2425		32
167	Transition from a spectrum filter to a polarizer in a metallic nano-slit array. *Scientific Reports*, **2014**, 4, 3614	4.9	31
166	Ultraviolet imprinting and aligned ink-jet printing for multilayer patterning of electro-optic polymer modulators. *Optics Letters*, **2013**, 38, 1597-9	3	31
165	Laser-Induced Focused Ultrasound for Cavitation Treatment: Toward High-Precision Invisible Sonic Scalpel. *Small*, **2017**, 13, 1701555	11	30

164	Polymer microring resonators for high-sensitivity and wideband photoacoustic imaging. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2009**, 56, 2482-91	3.2	30
163	Efficient Thermal-Light Interconversions Based on Optical Topological Transition in the Metal-Dielectric Multilayered Metamaterials. *Advanced Materials*, **2016**, 28, 3017-23	24	30
162	Air-coupled ultrasound detection using capillary-based optical ring resonators. *Scientific Reports*, **2017**, 7, 109	4.9	29
161	Breaking Malus□law: Highly efficient, broadband, and angular robust asymmetric light transmitting metasurface. *Laser and Photonics Reviews*, **2016**, 10, 791-798	8.3	29
160	Thermal-flow technique for reducing surface roughness and controlling gap size in polymer microring resonators. *Applied Physics Letters*, **2004**, 84, 2479-2481	3.4	29
159	Advanced Heterojunction Structure of Polymer Photovoltaic Cell Generating High Photocurrent with Internal Quantum Efficiency Approaching 100%. *Advanced Energy Materials*, **2013**, 3, 1135-1142	21.8	28
158	Micro-ultrasonic cleaving of cell clusters by laser-generated focused ultrasound and its mechanisms. *Biomedical Optics Express*, **2013**, 4, 1442-50	3.5	28
157	SPPs coupling induced interference in metal/dielectric multilayer waveguides and its application for plasmonic lithography. *Optics Express*, **2012**, 20, 12521-9	3.3	28
156	. *Journal of Lightwave Technology*, **2015**, 33, 4318-4328	4	27
155	Printable thermo-optic polymer switches utilizing imprinting and ink-jet printing. *Optics Express*, **2013**, 21, 2110-7	3.3	27
154	Nanoimprinted electrodes for micro-fuel cell applications. *Journal of Power Sources*, **2007**, 171, 218-223	8.9	27
153	Comparative study of GaN-based ultraviolet LEDs grown on different-sized patterned sapphire substrates with sputtered AlN nucleation layer. *Japanese Journal of Applied Physics*, **2017**, 56, 111001	1.4	26
152	Optimization of polymer photovoltaic cells with bulk heterojunction layers hundreds of nanometers thick: modifying the morphology and cathode interface. *Energy and Environmental Science*, **2013**, 6, 2203	35.4	26
151	Continuous patterning of nanogratings by nanochannel-guided lithography on liquid resists. *Advanced Materials*, **2011**, 23, 4444-8	24	26
150	Dynamic nanoinscribing for continuous and seamless metal and polymer nanogratings. *Nano Letters*, **2009**, 9, 4392-7	11.5	26
149	Subwavelength nanocavity for flexible structural transmissive color generation with a wide viewing angle. *Optica*, **2016**, 3, 1489	8.6	26
148	A Reconfigurable Color Reflector by Selective Phase Change of GeTe in a Multilayer Structure. *Advanced Optical Materials*, **2019**, 7, 1801214	8.1	26
147	Fast Flexible Transistors with a Nanotrench Structure. *Scientific Reports*, **2016**, 6, 24771	4.9	25

146	Vivid-colored silicon solar panels with high efficiency and non-iridescent appearance. *Nanoscale Horizons*, **2019**, 4, 874-880	10.8	24
145	Top illuminated organic photodetectors with dielectric/metal/dielectric transparent anode. *Organic Electronics*, **2015**, 20, 103-111	3.5	24
144	Planar Metasurfaces Enable High-Efficiency Colored Perovskite Solar Cells. *Advanced Science*, **2018**, 5, 1800836	13.6	24
143	Continuous and high-throughput nanopatterning methodologies based on mechanical deformation. *Journal of Materials Chemistry C*, **2013**, 1, 7681	7.1	24
142	Low f-number photoacoustic lens for tight ultrasonic focusing and free-field micro-cavitation in water. *Applied Physics Letters*, **2016**, 108, 104102	3.4	24
141	All-optical scanhead for ultrasound and photoacoustic imaging-Imaging mode switching by dichroic filtering. *Photoacoustics*, **2014**, 2, 39-46	9	23
140	Plasma etch fabrication of 60:1 aspect ratio silicon nanogratings with 200 nm pitch. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2010**, 28, C6P70-C6P75	1.3	23
139	Transparent Perfect Microwave Absorber Employing Asymmetric Resonance Cavity. *Advanced Science*, **2019**, 6, 1901320	13.6	22
138	High-Performance Large-Scale Flexible Optoelectronics Using Ultrathin Silver Films with Tunable Properties. *ACS Applied Materials & Interfaces*, **2019**, 11, 27216-27225	9.5	22
137	Enhancing the Purity of Reflective Structural Colors with Ultrathin Bilayer Media as Effective Ideal Absorbers. *Advanced Optical Materials*, **2019**, 7, 1900739	8.1	22
136	On-chip, high-sensitivity temperature sensors based on dye-doped solid-state polymer microring lasers. *Applied Physics Letters*, **2017**, 111, 061109	3.4	22
135	Multilayer pattern transfer for plasmonic color filter applications. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2010**, 28, C6O60-C6O63	1.3	22
134	Plasmonic Lithography Utilizing Epsilon Near Zero Hyperbolic Metamaterial. *ACS Nano*, **2017**, 11, 9863-9868	13.7	21
133	Multi-film roll transferring (MRT) process using highly conductive and solution-processed silver solution for fully solution-processed polymer solar cells. *Energy and Environmental Science*, **2014**, 7, 2764-2770	35.4	21
132	Highly Efficient Photoacoustic Conversion by Facilitated Heat Transfer in Ultrathin Metal Film Sandwiched by Polymer Layers. *Advanced Optical Materials*, **2017**, 5, 1600421	8.1	21
131	Nozzle-Free Liquid Microjetting via Homogeneous Bubble Nucleation. *Physical Review Applied*, **2015**, 3,	4.3	21
130	Thin-Metal-Film-Based Transparent Conductors: Material Preparation, Optical Design, and Device Applications. *Advanced Optical Materials*, **2021**, 9, 2001298	8.1	21
129	Printed Nanostructures for Organic Photovoltaic Cells and Solution-Processed Polymer Light-Emitting Diodes. *Energy Technology*, **2015**, 3, 340-350	3.5	20

128	Robust Extraction of Hyperbolic Metamaterial Permittivity using Total Internal Reflection Ellipsometry. *ACS Photonics*, **2018**, 5,	6.3	20
127	Localized micro-scale disruption of cells using laser-generated focused ultrasound. *Journal of Biophotonics*, **2013**, 6, 905-10	3.1	20
126	Entrance effect on ion transport in nanochannels. *Microfluidics and Nanofluidics*, **2010**, 9, 1033-1039	2.8	20
125	Selective Photomechanical Detachment and Retrieval of Divided Sister Cells from Enclosed Microfluidics for Downstream Analyses. *ACS Nano*, **2017**, 11, 4660-4668	16.7	18
124	Visualizing Mie Resonances in Low-Index Dielectric Nanoparticles. *Physical Review Letters*, **2018**, 120, 253902	7.4	18
123	Design of plasmonic near field plate at optical frequency. *Applied Physics Letters*, **2010**, 96, 141107	3.4	18
122	Visually tolerable tiling (VTT) for making a large-area flexible patterned surface. *Materials Horizons*, **2015**, 2, 86-90	14.4	17
121	Continuous fabrication of scalable 2-dimensional (2D) micro- and nanostructures by sequential 1D mechanical patterning processes. *Nanoscale*, **2014**, 6, 14636-42	7.7	17
120	Low-noise small-size microring ultrasonic detectors for high-resolution photoacoustic imaging. *Journal of Biomedical Optics*, **2011**, 16, 056001	3.5	17
119	Easy duplication of stamps using UV-cured fluoro-silsesquioxane for nanoimprint lithography. *Journal of Vacuum Science & Technology B*, **2008**, 26, 2426-2429		17
118	Ultrahigh Q Polymer Microring Resonators for Biosensing Applications. *IEEE Photonics Journal*, **2019**, 11, 1-10	1.8	17
117	Automated multi-layer optical design via deep reinforcement learning. *Machine Learning: Science and Technology*, **2021**, 2, 025013	5.1	17
116	Ultrasmall structure fabrication via a facile size modification of nanoimprinted functional silsesquioxane features. *ACS Nano*, **2011**, 5, 923-31	16.7	16
115	Controlled Generation of Single Microbubble at Solid Surfaces by a Nanosecond Pressure Pulse. *Physical Review Applied*, **2014**, 2,	4.3	15
114	Efficiency and stability enhancement of polymer solar cells using multi-stacks of C60/LiF as cathode buffer layer. *Organic Electronics*, **2013**, 14, 469-474	3.5	15
113	Fabrication and Encapsulation of a Short-Period Wire Grid Polarizer with Improved Viewing Angle by the Angled-Evaporation Method. *Advanced Optical Materials*, **2013**, 1, 863-868	8.1	15
112	Optical Simulation of Periodic Surface Texturing on Ultrathin Amorphous Silicon Solar Cells. *IEEE Journal of Photovoltaics*, **2014**, 4, 1337-1342	3.7	15
111	Analysis of the sensing properties of silica microtube resonator sensors. *Journal of the Optical Society of America B: Optical Physics*, **2009**, 26, 471	1.7	15

110	Holographic Sampling Display Based on Metagratings. *IScience*, **2020**, 23, 100773	6.1	15
109	Inverse design of metasurface optical filters using deep neural network with high degrees of freedom. *Informa□□Materi□y*, **2021**, 3, 432-442	23.1	15
108	Au nanostructure arrays for plasmonic applications: annealed island films versus nanoimprint lithography. *Nanoscale Research Letters*, **2015**, 10, 99	5	14
107	Quasi-vertical tapers for polymer-waveguide-based interboard optical interconnects. *Photonics Research*, **2015**, 3, 317	6	14
106	Period reduction lithography in normal UV range with surface plasmon polaritons interference and hyperbolic metamaterial multilayer structure. *Applied Physics Express*, **2015**, 8, 062004	2.4	14
105	High-color-purity, angle-invariant, and bidirectional structural colors based on higher-order resonances. *Optics Letters*, **2019**, 44, 86-89	3	14
104	Achieving pattern uniformity in plasmonic lithography by spatial frequency selection. *Nanophotonics*, **2018**, 7, 277-286	6.3	14
103	Effects of edge inclination angles on whispering-gallery modes in printable wedge microdisk lasers. *Optics Express*, **2018**, 26, 233-241	3.3	13
102	Nanowire Grid Polarizers Integrated into Flexible, Gas Permeable, Biocompatible Materials and Contact Lenses. *Advanced Optical Materials*, **2013**, 1, 343-348	8.1	13
101	Fabrication of high aspect ratio Si nanogratings with smooth sidewalls for a deep UV-blocking particle filter. *Journal of Vacuum Science & Technology B*, **2007**, 25, 2645		13
100	Characterizing cellular morphology by photoacoustic spectrum analysis with an ultra-broadband optical ultrasonic detector. *Optics Express*, **2016**, 24, 19853-62	3.3	13
99	Decorative near-infrared transmission filters featuring high-efficiency and angular-insensitivity employing 1D photonic crystals. *Nano Research*, **2019**, 12, 543-548	10	13
98	Modulation of the effective density and refractive index of carbon nanotube forests via nanoimprint lithography. *Carbon*, **2018**, 129, 8-14	10.4	13
97	Sustainable p-type copper selenide solar material with ultra-large absorption coefficient. *Chemical Science*, **2018**, 9, 5405-5414	9.4	13
96	Demonstration of versatile whispering-gallery micro-lasers for remote refractive index sensing. *Optics Express*, **2018**, 26, 5800-5809	3.3	12
95	Sensitivity enhancement in optical micro-tube resonator sensors via mode coupling. *Applied Physics Letters*, **2013**, 103, 013702	3.4	12
94	Fabrication and testing of freestanding Si nanogratings for UV filtration on space-based particle sensors. *Nanotechnology*, **2009**, 20, 325301	3.4	12
93	Microcavity-Integrated Colored Semitransparent Hybrid Photovoltaics With Improved Efficiency and Color Purity. *IEEE Journal of Photovoltaics*, **2015**, 5, 1654-1658	3.7	11

92	Electrodeposition of Large Area, Angle-Insensitive Multilayered Structural Colors. *ACS Applied Materials & Interfaces*, **2019**, 11, 29065-29071	9.5	11
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