

Ai Qun Liu

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2455083/ai-qun-liu-publications-by-year.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

295 papers	7,500 citations	45 h-index	75 g-index
389 ext. papers	9,411 ext. citations	5.2 avg, IF	5.87 L-index

#	Paper	IF	Citations
295	Space-efficient optical computing with an integrated chip diffractive neural network.. <i>Nature Communications</i> , 2022 , 13, 1044	17.4	8
294	High-efficient subwavelength-scale optofluidic waveguides with tapered microstructured optical fibers. <i>Optics Express</i> , 2021 , 29, 38068-38081	3.3	0
293	Continuous optical sorting of nanoscale biomolecules in integrated microfluidic-nanophotonic chips. <i>Sensors and Actuators B: Chemical</i> , 2021 , 331, 129428	8.5	7
292	Efficient On-Chip Training of Optical Neural Networks Using Genetic Algorithm. <i>ACS Photonics</i> , 2021 , 8, 1662-1672	6.3	6
291	Hydrogel-Based Stamping Technology for Solution-Free Blood Cell Staining. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22124-22130	9.5	2
290	Persistence with medical treatment for Wilson disease in China based on a single center's survey research. <i>Brain and Behavior</i> , 2021 , 11, e02168	3.4	2
289	Chip-based quantum key distribution. <i>AAPPS Bulletin</i> , 2021 , 31, 1		24
288	Smart ring resonatorBased sensor for multicomponent chemical analysis via machine learning. <i>Photonics Research</i> , 2021 , 9, B38	6	2
287	Rare bioparticle detection deep metric learning.. <i>RSC Advances</i> , 2021 , 11, 17603-17610	3.7	2
286	Deep learning-enabled imaging flow cytometry for high-speed Cryptosporidium and Giardia detection. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2021 , 99, 1123-1133	4.6	4
285	On-Chip Optical Detection of Viruses: A Review. <i>Advanced Photonics Research</i> , 2021 , 2, 2000150	1.9	8
284	Pangolin-Inspired Stretchable, Microwave-Invisible Metascale. <i>Advanced Materials</i> , 2021 , 33, e2102131	24	9
283	Trapping and Detection of Single Viruses in an Optofluidic Chip. <i>ACS Sensors</i> , 2021 , 6, 3445-3450	9.2	5
282	An optical neural chip for implementing complex-valued neural network. <i>Nature Communications</i> , 2021 , 12, 457	17.4	58
281	Machine Learning-Based Pipeline for High Accuracy Bioparticle Sizing. <i>Micromachines</i> , 2020 , 11,	3.3	2
280	Optofluidic Microengine in A Dynamic Flow Environment via Self-Induced Back-Action. <i>ACS Photonics</i> , 2020 , 7, 1500-1507	6.3	8
279	Optical Potential-Well Array for High-Selectivity, Massive Trapping and Sorting at Nanoscale. <i>Nano Letters</i> , 2020 , 20, 5193-5200	11.5	24

278	Semantic Segmentation with Context Encoding and Multi-Path Decoding. <i>IEEE Transactions on Image Processing</i> , 2020 ,	8.7	46
277	Optical Forces in Silicon Nanophotonics and Optomechanical Systems: Science and Applications 2020 , 2020, 1-14		1
276	On-Chip Continuous-Variable Quantum Key Distribution(CV-QKD) and Homodyne Detection 2020 ,		2
275	Massive nanophotonic trapping and alignment of rod-shaped bacteria for parallel single-cell studies. <i>Sensors and Actuators B: Chemical</i> , 2020 , 306, 127562	8.5	8
274	Extraordinary Multipole Modes and Ultra-Enhanced Optical Lateral Force by Chirality. <i>Physical Review Letters</i> , 2020 , 125, 043901	7.4	15
273	Chip-Based Measurement-Device-Independent Quantum Key Distribution Using Integrated Silicon Photonic Systems. <i>Physical Review Applied</i> , 2020 , 14,	4.3	9
272	CytoPAN-Portable cellular analyses for rapid point-of-care cancer diagnosis. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	11
271	Biotoxoid Photonic Sensors with Temperature Insensitivity Using a Cascade of Ring Resonator and Mach-Zehnder Interferometer. <i>ACS Sensors</i> , 2020 , 5, 2448-2456	9.2	3
270	Plasmonic Sensors for Extracellular Vesicle Analysis: From Scientific Development to Translational Research. <i>ACS Nano</i> , 2020 , 14, 14528-14548	16.7	25
269	Chirality-assisted lateral momentum transfer for bidirectional enantioselective separation. <i>Light: Science and Applications</i> , 2020 , 9, 62	16.7	54
268	Nanophotonic Array-Induced Dynamic Behavior for Label-Free Shape-Selective Bacteria Sieving. <i>ACS Nano</i> , 2019 , 13, 12070-12080	16.7	29
267	A Single-Chip Integrated Spectrometer via Tunable Microring Resonator Array. <i>IEEE Photonics Journal</i> , 2019 , 11, 1-9	1.8	6
266	Microring resonator-assisted Fourier transform spectrometer with enhanced resolution and large bandwidth in single chip solution. <i>Nature Communications</i> , 2019 , 10, 2349	17.4	28
265	Split Archimedean spiral metasurface for controllable GHz asymmetric transmission. <i>Applied Physics Letters</i> , 2019 , 114, 151105	3.4	18
264	An integrated silicon photonic chip platform for continuous-variable quantum key distribution. <i>Nature Photonics</i> , 2019 , 13, 839-842	33.9	93
263	Dynamic Phonon Manipulation by Optomechanically Induced Strong Coupling between Two Distinct Mechanical Resonators. <i>ACS Photonics</i> , 2019 , 6, 1855-1862	6.3	2
262	Regulation of lipid droplets in live preadipocytes using optical diffraction tomography and Raman spectroscopy. <i>Optics Express</i> , 2019 , 27, 22994-23008	3.3	3
261	Chemical reaction monitoring via the light focusing in optofluidic waveguides. <i>Sensors and Actuators B: Chemical</i> , 2019 , 280, 16-23	8.5	9

260	Sculpting nanoparticle dynamics for single-bacteria-level screening and direct binding-efficiency measurement. <i>Nature Communications</i> , 2018 , 9, 815	17.4	85
259	Optical Anapole Metamaterial. <i>ACS Nano</i> , 2018 , 12, 1920-1927	16.7	142
258	Metafluidic metamaterial: a review. <i>Advances in Physics: X</i> , 2018 , 3, 1417055	5.1	22
257	Nanometer-precision linear sorting with synchronized optofluidic dual barriers. <i>Science Advances</i> , 2018 , 4, eaao0773	14.3	114
256	Metalenses: Advances and Applications. <i>Advanced Optical Materials</i> , 2018 , 6, 1800554	8.1	82
255	Arbitrary and Independent Polarization Control In Situ via a Single Metasurface. <i>Advanced Optical Materials</i> , 2018 , 6, 1800728	8.1	36
254	0.2 μ m Thick Adaptive Retroreflector Made of Spin-Locked Metasurface. <i>Advanced Materials</i> , 2018 , 30, e1802721	24	47
253	Context Contrasted Feature and Gated Multi-scale Aggregation for Scene Segmentation 2018 ,		116
252	Broadband Wide-Angle Multifunctional Polarization Converter via Liquid-Metal-Based Metasurface. <i>Advanced Optical Materials</i> , 2017 , 5, 1600938	8.1	123
251	High-resolution and multi-range particle separation by microscopic vibration in an optofluidic chip. <i>Lab on A Chip</i> , 2017 , 17, 2443-2450	7.2	38
250	Adaptable metasurface for dynamic anomalous reflection. <i>Applied Physics Letters</i> , 2017 , 110, 201904	3.4	29
249	Highly Sensitive, Label-Free Detection of 2,4-Dichlorophenoxyacetic Acid Using an Optofluidic Chip. <i>ACS Sensors</i> , 2017 , 2, 955-960	9.2	20
248	Liquid-metal-based metasurface for terahertz absorption material: Frequency-agile and wide-angle. <i>APL Materials</i> , 2017 , 5, 066103	5.7	29
247	Microfluidic Metasurfaces: Broadband Wide-Angle Multifunctional Polarization Converter via Liquid-Metal-Based Metasurface (Advanced Optical Materials 7/2017). <i>Advanced Optical Materials</i> , 2017 , 5,	8.1	1
246	Water-Resonator-Based Metasurface: An Ultrabroadband and Near-Unity Absorption. <i>Advanced Optical Materials</i> , 2017 , 5, 1601103	8.1	76
245	Tunable Polarization Conversion and Rotation based on a Reconfigurable Metasurface. <i>Scientific Reports</i> , 2017 , 7, 12068	4.9	32
244	Roadmap for optofluidics. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 093003	1.7	55
243	Torsional frequency mixing and sensing in optomechanical resonators. <i>Applied Physics Letters</i> , 2017 , 111, 111102	3.4	8

242	Single mode to dual mode switch through a THz reconfigurable metamaterial. <i>Applied Physics Letters</i> , 2017 , 111, 241106	3.4	5
241	A reconfigurable coupled optical resonators in photonic circuits for photon shutting 2017 ,		1
240	Fas-associated factor 1 inhibits tumor growth by suppressing Helicobacter pylori-induced activation of NF- κ B signaling in human gastric carcinoma. <i>Oncotarget</i> , 2017 , 8, 7999-8009	3.3	9
239	Integrated closed-loop cavity of a tunable laser. <i>Applied Physics Letters</i> , 2016 , 109, 151105	3.4	0
238	Gas Sensor for Volatile Organic Compounds Detection Using Silicon Photonic Ring Resonator. <i>Procedia Engineering</i> , 2016 , 168, 1771-1774		6
237	Optofluidic lens with low spherical and low field curvature aberrations. <i>Lab on A Chip</i> , 2016 , 16, 1617-247.2	7.2	27
236	On-chip Fourier Transform Spectrometer for Chemical Sensing Applications 2016 ,		4
235	First Report of Bacterial Soft Rot of Vanilla Caused by Dickeya dadantii in China. <i>Plant Disease</i> , 2016 , 100, 1493	1.5	1
234	Dynamic metasurface for broadband electromagnetic modulator in reflection 2016 ,		3
233	Tunable metamaterials for terahertz ultra-broadband absorption driven by microfluidics 2016 ,		1
232	Nano-optomechanical static random access memory (SRAM) 2015 ,		1
231	The Poisson distribution and beyond: methods for microfluidic droplet production and single cell encapsulation. <i>Lab on A Chip</i> , 2015 , 15, 3439-59	7.2	278
230	Plasmon coupling in vertical split-ring resonator metamolecules. <i>Scientific Reports</i> , 2015 , 5, 9726	4.9	53
229	Tunable flat lens based on microfluidic reconfigurable metasurface 2015 ,		2
228	A silicon-nanowire memory driven by optical gradient force induced bistability. <i>Applied Physics Letters</i> , 2015 , 107, 261111	3.4	9
227	A flat lens with tunable phase gradient by using random access reconfigurable metamaterial. <i>Advanced Materials</i> , 2015 , 27, 4739-43	24	92
226	Coupled-ring reflector in an external-cavity tunable laser. <i>Optica</i> , 2015 , 2, 940	8.6	7
225	Water's tensile strength measured using an optofluidic chip. <i>Lab on A Chip</i> , 2015 , 15, 2158-61	7.2	8

224	Particle separation under the co-action of Brownian motion and optical force in near-field speckle patterns 2015 ,		1
223	Droplet generation via a single bubble transformation in a nanofluidic channel. <i>Lab on A Chip</i> , 2015 , 15, 1451-7	7.2	18
222	. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 767-769	2.2	17
221	High-efficiency broadband meta-hologram with polarization-controlled dual images. <i>Nano Letters</i> , 2014 , 14, 225-30	11.5	517
220	Real-time measurement of thrombin generation using continuous droplet microfluidics. <i>Biomicrofluidics</i> , 2014 , 8, 052108	3.2	8
219	Droplet optofluidic imaging for Ebacteriophage detection via co-culture with host cell Escherichia coli. <i>Lab on A Chip</i> , 2014 , 14, 3519-24	7.2	30
218	Identification and characterization of a novel splice-site mutation in the Wilson disease gene. <i>Journal of the Neurological Sciences</i> , 2014 , 345, 154-8	3.2	3
217	Distinctive Optofluidic Parallel Waveguides. <i>Procedia Engineering</i> , 2014 , 87, 1549-1552		
216	Silencing of the hTERT gene by shRNA inhibits colon cancer SW480 cell growth in vitro and in vivo. <i>PLoS ONE</i> , 2014 , 9, e107019	3.7	12
215	A pseudo-planar metasurface for a polarization rotator. <i>Optics Express</i> , 2014 , 22, 10446-54	3.3	22
214	An all optical shock sensor based on buckled doubly-clamped silicon beam 2014 ,		1
213	Effectiveness and safety profile of S-1-based chemotherapy compared with capecitabine-based chemotherapy for advanced gastric and colorectal cancer: A meta-analysis. <i>Experimental and Therapeutic Medicine</i> , 2014 , 7, 1271-1278	2.1	7
212	Microjet-Initiated Nano-Gaseous Layer Pinch-Off from the Surface of a Bubble and Subsequent Breakup. <i>Israel Journal of Chemistry</i> , 2014 , 54, 1602-1606	3.4	
211	Study of cyanoethyl pullulan as insulator for electrowetting. <i>Sensors and Actuators B: Chemical</i> , 2014 , 199, 183-189	8.5	13
210	An on-chip opto-mechanical accelerometer 2013 ,		4
209	Nano-optomechanical actuator and pull-back instability. <i>ACS Nano</i> , 2013 , 7, 1676-81	16.7	42
208	Three-dimensional plasmonic micro projector for light manipulation. <i>Advanced Materials</i> , 2013 , 25, 1118-23	23	25
207	Thz polarizer using tunable metamaterials 2013 ,		2

206	Single cell membrane poration by bubble-induced microjets in a microfluidic chip. <i>Lab on A Chip</i> , 2013 , 13, 1144-50	7.2	49
205	Resonance Switchable Metamaterials Using MEMS Fabrications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 4700306-4700306	3.8	17
204	Stirring in suspension: nanometer-sized magnetic stir bars. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8570-3	16.4	72
203	Chemiluminescence detector based on a single planar transparent digital microfluidic device. <i>Lab on A Chip</i> , 2013 , 13, 2714-20	7.2	20
202	Study of endothelial cell apoptosis using fluorescence resonance energy transfer (FRET) biosensor cell line with hemodynamic microfluidic chip system. <i>Lab on A Chip</i> , 2013 , 13, 2693-700	7.2	31
201	A nanoelectromechanical systems actuator driven and controlled by Q-factor attenuation of ring resonator. <i>Applied Physics Letters</i> , 2013 , 103, 181105	3.4	19
200	Stirring in Suspension: Nanometer-Sized Magnetic Stir Bars. <i>Angewandte Chemie</i> , 2013 , 125, 8732-8735	3.6	16
199	Fabrication of three-dimensional plasmonic cavity by femtosecond laser-induced forward transfer. <i>Optics Express</i> , 2013 , 21, 618-25	3.3	19
198	A tunable MEMS THz waveplate based on isotropicity dependent metamaterial 2013 ,		2
197	Microfluidic tunable metamaterial for gigahertz filter array 2013 ,		1
196	Cylindrical Surfaces Enable Wavelength-Selective Extinction and Sub-0.2 nm Linewidth in 250 nm Gap Silicon Fabry-Pérot Cavities. <i>Journal of Microelectromechanical Systems</i> , 2012 , 21, 171-180	2.5	20
195	Micromachined based narrow band Fabry-Pérot tunable bandpass filter. <i>IET Microwaves, Antennas and Propagation</i> , 2012 , 6, 562	1.6	3
194	A nanomachined optical logic gate driven by gradient optical force. <i>Applied Physics Letters</i> , 2012 , 100, 113104	3.4	29
193	Transformation optofluidics for large-angle light bending and tuning. <i>Lab on A Chip</i> , 2012 , 12, 3785-90	7.2	32
192	Microelectromechanical Maltese-cross metamaterial with tunable terahertz anisotropy. <i>Nature Communications</i> , 2012 , 3, 1274	17.4	167
191	Band gap opening of graphene by doping small boron nitride domains. <i>Nanoscale</i> , 2012 , 4, 2157-65	7.7	190
190	Nano-opto-mechanical actuator driven by gradient optical force. <i>Applied Physics Letters</i> , 2012 , 100, 013104	3.4	37
189	Optical-force-induced bistability in nanomachined ring resonator systems. <i>Applied Physics Letters</i> , 2012 , 100, 093108	3.4	20

188	Optofluidic waveguide as a transformation optics device for lightwave bending and manipulation. <i>Nature Communications</i> , 2012 , 3, 651	17.4	123
187	Polarization selective tunable filter via tuning of Fano resonances in MEMS switchable metamaterials 2012 ,		1
186	Double-layer hepatocyte tumor co-culture using hydrogel for drug effectivity and specificity analysis 2012 ,		1
185	Fast localized single cell membrane poration by bubble-induced jetting flow 2012 ,		1
184	Micromachined switchable metamaterial with dual resonance. <i>Applied Physics Letters</i> , 2012 , 101, 151902	3.4	38
183	Micromachined tunable metamaterials: a review. <i>Journal of Optics (United Kingdom)</i> , 2012 , 14, 114009	1.7	99
182	Narrow-Linewidth Tunable Lasers With Retro-Reflective External Cavity. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 1591-1593	2.2	5
181	Magnetic plasmon induced transparency in three-dimensional metamolecules. <i>Nanophotonics</i> , 2012 , 1, 131-138	6.3	57
180	A nano-opto-mechanical pressure sensor via ring resonator. <i>Optics Express</i> , 2012 , 20, 8535-42	3.3	56
179	Force-induced optical nonlinearity and Kerr-like coefficient in opto-mechanical ring resonators. <i>Optics Express</i> , 2012 , 20, 18005-15	3.3	18
178	Polarization dependent state to polarization independent state change in THz metamaterials. <i>Applied Physics Letters</i> , 2011 , 99, 221102	3.4	47
177	A THz dual mode switch using MEMS switchable metamaterial 2011 ,		1
176	A highly efficient three-dimensional (3D) liquid-liquid waveguide laser by two flow streams 2011 ,		1
175	Production of reactive oxygen species in endothelial cells under different pulsatile shear stresses and glucose concentrations. <i>Lab on A Chip</i> , 2011 , 11, 1856-63	7.2	69
174	An optofluidic prism tuned by two laminar flows. <i>Lab on A Chip</i> , 2011 , 11, 1864-9	7.2	42
173	Fabrication of phase-change chalcogenide Ge ₂ Sb ₂ Te ₅ patterns by laser-induced forward transfer. <i>Optics Express</i> , 2011 , 19, 16975-84	3.3	46
172	An absorptive filter using microfluidic switchable metamaterials 2011 ,		4
171	Nano-opto-mechanical actuator driven by optical radiation force 2011 ,		1

170	Nano-opto-mechanical linear actuator utilizing gradient optical force 2011 ,		3
169	Liquid refractive index sensors using resonant optical tunneling effect for ultra-high sensitivity. <i>Sensors and Actuators A: Physical</i> , 2011 , 169, 347-351	3.9	9
168	Design, modeling and characterization of stable, high Q-factor curved Fabry-Pérot cavities. <i>Microsystem Technologies</i> , 2011 , 17, 543-552	1.7	6
167	A Micromachined Reconfigurable Metamaterial via Reconfiguration of Asymmetric Split-Ring Resonators. <i>Advanced Functional Materials</i> , 2011 , 21, 3589-3594	15.6	135
166	Switchable magnetic metamaterials using micromachining processes. <i>Advanced Materials</i> , 2011 , 23, 1792-4	2.4	167
165	A tunable 3D optofluidic waveguide dye laser via two centrifugal Dean flow streams. <i>Lab on A Chip</i> , 2011 , 11, 3182-7	7.2	156
164	Fast on-demand droplet fusion using transient cavitation bubbles. <i>Lab on A Chip</i> , 2011 , 11, 1879-85	7.2	25
163	Pressure sensor using Nano-opto-mechanical Systems (NOMS) 2011 ,		1
162	Micromachined Fabry-Pérot resonator combining submillimeter cavity length and high quality factor. <i>Applied Physics Letters</i> , 2011 , 98, 211113	3.4	16
161	Design and experiments of a Nano-opto-mechanical switch using EIT-like effects of coupled-ring resonator 2011 ,		1
160	A Nano-opto-mechanical pressure sensor 2011 ,		2
159	First Report of Coleus blumei viroid 2 from Commercial Coleus in China. <i>Plant Disease</i> , 2011 , 95, 494	1.5	7
158	Preface to special topic: optofluidics. <i>Biomicrofluidics</i> , 2010 , 4, 42901	3.2	3
157	Pure angular momentum generator using a ring resonator. <i>Optics Express</i> , 2010 , 18, 21651-62	3.3	19
156	Microfluidic droplet grating for reconfigurable optical diffraction. <i>Optics Letters</i> , 2010 , 35, 1890-2	3	32
155	A reconfigurable optofluidic Michelson interferometer using tunable droplet grating. <i>Lab on A Chip</i> , 2010 , 10, 1072-8	7.2	45
154	A MEMS tunable metamaterial filter 2010 ,		8
153	Miniaturized band-pass filter for broadband applications. <i>Microwave and Optical Technology Letters</i> , 2010 , 52, 1372-1375	1.2	

152 Capacitive Switching Bandpass Filters. *MEMS Reference Shelf*, **2010**, 189-206

151 Lateral Series Switches. *MEMS Reference Shelf*, **2010**, 22-64

150 Exact step-coupling theory for mode-coupling behavior in geometrical variation photonic crystal waveguides. *Physical Review B*, **2009**, 80, 3.3 7

149 A MEMS digital mirror for tunable laser wavelength selection **2009**, 2

148 Label-Free Protein Detection via Gold Nanoparticles and Localized Surface Plasmon Resonance. *Advanced Materials Research*, **2009**, 74, 95-98 0.5 7

147 Thermal Management and Alignment Strategies in MEMS Tunable Laser Packaging. *Advanced Materials Research*, **2009**, 74, 319-322 0.5

146 Tunable Optical Filter by Thermal Effect Based on MEMS Technology. *Advanced Materials Research*, **2009**, 74, 315-318 0.5

145 Light-Driven Acoustic Band Gap Based on Metal Nanospheres. *Advanced Materials Research*, **2009**, 74, 17-20 0.5 3

144 A Liquid Optical Tip via Control of Flow Rate. *Advanced Materials Research*, **2009**, 74, 331-334 0.5

143 Dynamic Liquid Optical Splitters and Interferometers Integrated into Micro-Fluidic-Systems. *Advanced Materials Research*, **2009**, 74, 67-70 0.5

142 A Photonic MEMS Polarization Switch. *Advanced Materials Research*, **2009**, 74, 63-66 0.5 1

141 Numerical Modeling of Spiral Micro-Mixers. *Advanced Materials Research*, **2009**, 74, 327-330 0.5

140 Micromachined Pressure Sensors on Optical Fiber Tip. *Advanced Materials Research*, **2009**, 74, 149-152 0.5

139 High Accuracy Pressure Sensor Based on Optical MEMS Technology. *Advanced Materials Research*, **2009**, 74, 153-156 0.5

138 A THz-Wave Generator Based on MEMS Technology. *Advanced Materials Research*, **2009**, 74, 59-62 0.5 0

137 An On-Chip Micro-Droplet Optical Filter Using Evanescent Wave Coupling. *Advanced Materials Research*, **2009**, 74, 193-196 0.5

136 UV-Visible Spectra Character of Larger Diameter of Gold Nanoparticles (AuNPs). *Advanced Materials Research*, **2009**, 74, 323-326 0.5

135 Of light, of MEMS: Optical MEMS in telecommunications and beyond. *Sadhana - Academy Proceedings in Engineering Sciences*, **2009**, 34, 599-606 1 1

134	Photonic MEMS tunable laser sources. <i>Journal of China Universities of Posts and Telecommunications</i> , 2009 , 16, 1-3		2
133	Analysis of Novel Building Blocks for Photonic MEMS Based on Deep 1D Photonic Crystals. <i>Advanced Materials Research</i> , 2009 , 74, 55-58	0.5	
132	MEMS Optical Logic NOR Gate using Integrated Tunable Lasers 2009 ,		1
131	A liquid waveguide based evanescent wave sensor integrated onto a microfluidic chip. <i>Applied Physics Letters</i> , 2008 , 93, 193901	3-4	42
130	Asymmetric Tuning Schemes of MEMS Dual-Shutter VOA. <i>Journal of Lightwave Technology</i> , 2008 , 26, 569-579	4	12
129	Photonic bandgap crystal resonator enhanced, laser controlled modulations of optical interconnects for photonic integrated circuits. <i>Optics Express</i> , 2008 , 16, 7842-8	3-3	17
128	A micromachined tunable coupled-cavity laser for wide tuning range and high spectral purity. <i>Optics Express</i> , 2008 , 16, 16670-9	3-3	16
127	Light-Intensity-Feedback-Waveform Generator Based on MEMS Variable Optical Attenuator. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 417-426	8.9	9
126	An on-chip liquid tunable grating using multiphase droplet microfluidics. <i>Applied Physics Letters</i> , 2008 , 93, 164107	3-4	27
125	A frequency-selective circulator via mode coupling between surface waveguide and resonators. <i>Applied Physics Letters</i> , 2008 , 92, 021119	3-4	9
124	A miniature tunable coupled-cavity laser constructed by micromachining technology. <i>Applied Physics Letters</i> , 2008 , 92, 031105	3-4	9
123	A micromachined optical double well for thermo-optic switching via resonant tunneling effect. <i>Applied Physics Letters</i> , 2008 , 92, 251101	3-4	16
122	Tunable dual-wavelength laser constructed by silicon micromachining. <i>Applied Physics Letters</i> , 2008 , 92, 051113	3-4	4
121	Different curvatures of tunable liquid microlens via the control of laminar flow rate. <i>Applied Physics Letters</i> , 2008 , 93, 084101	3-4	47
120	Cell compressibility studies utilizing noncontact hydrostatic pressure measurements on single living cells in a microchamber. <i>Applied Physics Letters</i> , 2008 , 92, 233901	3-4	13
119	Label-free detection with micro optical fluidic systems (MOFS): a review. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 2443-52	4-4	52
118	MEMS tuning mechanism for eliminating mode hopping problem in external-cavity lasers 2007 ,		3
117	Rhombic-shaped thermal actuator array for evenly-distributed very large displacement 2007 ,		1

116	Retro-reflection VOA using parabolic mirror for low insertion loss and linear attenuation relationship 2007 ,		2
115	Retro-Axial VOA Using Parabolic Mirror Pair. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 692-694	2.2	14
114	Micromachined tunable filter using fractal electromagnetic bandgap (EBG) structures. <i>Sensors and Actuators A: Physical</i> , 2007 , 133, 355-362	3.9	8
113	Thermal-Optic Switch by Total Internal Reflection of Micromachined Silicon Prism. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007 , 13, 348-358	3.8	10
112	A side-coupled photonic crystal filter with sidelobe suppression. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 89, 327-332	2.6	6
111	Rod type photonic crystal optical line defect waveguides with optical modulations. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 89, 417-422	2.6	6
110	Hole-type two-dimensional photonic crystal fabricated in silicon on insulator wafers. <i>Sensors and Actuators A: Physical</i> , 2007 , 133, 388-394	3.9	7
109	Determining refractive index of single living cell using an integrated microchip. <i>Sensors and Actuators A: Physical</i> , 2007 , 133, 349-354	3.9	159
108	Design, simulation and experiment of electroosmotic microfluidic chip for cell sorting. <i>Sensors and Actuators A: Physical</i> , 2007 , 133, 340-348	3.9	33
107	Characterization and optimization of dry releasing for the fabrication of RF MEMS capacitive switches. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 2024-2030	2	24
106	Microfluidic continuous particle/cell separation via electroosmotic-flow-tuned hydrodynamic spreading. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 1992-1999	2	41
105	A single-mask substrate transfer technique for the fabrication of high-aspect-ratio micromachined structures. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 1575-1582	2	5
104	Differential single living cell refractometry using grating resonant cavity with optical trap. <i>Applied Physics Letters</i> , 2007 , 91, 243901	3.4	49
103	Variable Nano-Grating for Tunable Filters 2007 ,		4
102	Transmitting light efficiently on photonic crystal surface waveguide bend. <i>Applied Physics Letters</i> , 2007 , 91, 171109	3.4	12
101	Air-Spaced Cylindricalprisms for Fast Thermo-Optic Switching 2007 ,		1
100	MEMS Tunable Dual-Wavelength Laser with Large Tuning Range 2007 ,		1
99	Determination of single living cell's dry/water mass using optofluidic chip. <i>Applied Physics Letters</i> , 2007 , 91, 223902	3.4	30

98	Micromachined optical well structure for thermo-optic switching. <i>Applied Physics Letters</i> , 2007 , 91, 2611064	15
97	Single Living Cell Refractometry using FBG-Based Resonant Cavity 2007 ,	1
96	Light focusing via Rowland concave surface of photonic crystal. <i>Applied Physics Letters</i> , 2007 , 91, 2211053	4 7
95	Exact Solutions for Free-Vibration Analysis of Rectangular Plates Using Bessel Functions. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2007 , 74, 1247-1251	2.7 30
94	A Reconfigurable Micromachined Switching Filter Using Periodic Structures. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007 , 55, 1154-1162	4.1 21
93	A micro-optic-fluidic spectrometer with integrated 3D liquid-liquid waveguide 2007 ,	1
92	A Wafer Transfer Technology for Integration of RF MEMS and CMOS on Organic Substrate 2007 ,	1
91	A Real Pivot Structure for MEMS Tunable Lasers. <i>Journal of Microelectromechanical Systems</i> , 2007 , 16, 269-278	2.5 10
90	A review of MEMS external-cavity tunable lasers. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, R1-R13	2 89
89	RF MEMS Switches and Integrated Switching Circuits. <i>Journal of Semiconductor Technology and Science</i> , 2007 , 7, 166-176	1.5 17
88	A tunable bandstop filter via the capacitance change of micromachined switches. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 851-861	2 26
87	Effects of surface roughness on electromagnetic characteristics of capacitive switches. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 2157-2166	2 38
86	RF MEMS switch integrated on printed circuit board with metallic membrane first sequence and transferring. <i>IEEE Electron Device Letters</i> , 2006 , 27, 552-554	4.4 4
85	Modulational transparency and femtosecond pulse train in Bragg reflectors with time-varying dielectric constant. <i>Applied Physics Letters</i> , 2006 , 89, 263103	3.4 4
84	Nonlinear Control of a MEMS Optical Switch 2006 ,	5
83	A Novel Reconfigurable Filter Using Periodic Structures 2006 ,	13
82	The lateral instability problem in electrostatic comb drive actuators: modeling and feedback control. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 1233-1241	2 31
81	Light switching via thermo-optic effect of micromachined silicon prism. <i>Applied Physics Letters</i> , 2006 , 88, 243501	3.4 8

80	Broad-Band Band-Pass and Band-Stop Filters with Sharp Cut-off Frequencies Based on Series CPW Stubs 2006 ,		7
79	Refractive index measurement of single living cells using on-chip Fabry-Pérot cavity. <i>Applied Physics Letters</i> , 2006 , 89, 203901	3.4	102
78	Exact solution of resonant modes in a rectangular resonator. <i>Optics Letters</i> , 2006 , 31, 1720-2	3	7
77	Investigation of resonant modes in thin microcavities by using electromagnetic theory. <i>Optics Letters</i> , 2006 , 31, 2438-40	3	5
76	Reply to Comment on 'Exact solution of resonant modes in a rectangular resonator'. <i>Optics Letters</i> , 2006 , 31, 2470	3	
75	Modified step-theory for investigating mode coupling mechanism in photonic crystal waveguide taper. <i>Optics Express</i> , 2006 , 14, 6035-54	3.3	7
74	A modeling and analysis of spring-shaped torsion micromirrors for low-voltage applications. <i>International Journal of Mechanical Sciences</i> , 2006 , 48, 650-661	5.5	21
73	Fabrication and demonstration of square lattice two-dimensional rod-type photonic bandgap crystal optical intersections. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2006 , 4, 103-115	2.6	15
72	Short pulse passively Q-switched Nd:GdYVO ₄ laser using a GaAs mirror. <i>Optics Communications</i> , 2006 , 259, 256-260	2	43
71	Multiple scattering of a spherical acoustic wave from fluid spheres. <i>Journal of Sound and Vibration</i> , 2006 , 290, 17-33	3.9	7
70	Tolerance analysis for comb-drive actuator using DRIE fabrication. <i>Sensors and Actuators A: Physical</i> , 2006 , 125, 494-503	3.9	36
69	Micromachined DC contact capacitive switch on low-resistivity silicon substrate. <i>Sensors and Actuators A: Physical</i> , 2006 , 127, 24-30	3.9	13
68	Continuous wavelength tuning in micromachined Littrow external-cavity lasers. <i>IEEE Journal of Quantum Electronics</i> , 2005 , 41, 187-197	2	22
67	Nonuniform photonic crystal taper for high-efficiency mode coupling. <i>Optics Express</i> , 2005 , 13, 7748-59	3.3	34
66	Open-loop versus closed-loop control of MEMS devices: choices and issues. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 1917-1924	2	101
65	Linear MEMS variable optical attenuator using reflective elliptical mirror. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 402-404	2.2	39
64	Tunable MEMS LC resonator with large tuning range. <i>Electronics Letters</i> , 2005 , 41, 855	1.1	7
63	Improvement of isolation for MEMS capacitive switch via membrane planarization. <i>Sensors and Actuators A: Physical</i> , 2005 , 119, 206-213	3.9	34

62	Optimization of design and fabrication for micromachined true time delay (TTD) phase shifters. <i>Sensors and Actuators A: Physical</i> , 2005 , 119, 446-454	3.9	10
61	A study of dynamic characteristics and simulation of MEMS torsional micromirrors. <i>Sensors and Actuators A: Physical</i> , 2005 , 120, 199-210	3.9	54
60	High isolation X-band MEMS capacitive switches. <i>Sensors and Actuators A: Physical</i> , 2005 , 120, 241-248	3.9	18
59	A single-pole double-throw (SPDT) circuit using lateral metal-contact micromachined switches. <i>Sensors and Actuators A: Physical</i> , 2005 , 121, 187-196	3.9	17
58	A monolithically integrated photonic MEMS subsystem for optical network applications. <i>Optics Communications</i> , 2005 , 249, 579-586	2	6
57	Microstrip lateral RF MEMS switch integrated with multistep CPW transition. <i>Microwave and Optical Technology Letters</i> , 2005 , 44, 93-95	1.2	1
56	Low-pass filter using a hybrid EBG structure. <i>Microwave and Optical Technology Letters</i> , 2005 , 45, 95-98	1.2	3
55	Low-loss lateral micromachined switches for high frequency applications. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 157-167	2	51
54	Miniaturized injection-locked laser using microelectromechanical systems technology. <i>Applied Physics Letters</i> , 2005 , 87, 101101	3.4	6
53	DEEP UV LITHOGRAPHY FOR PILLAR TYPE NANOPHOTONIC CRYSTAL. <i>International Journal of Nanoscience</i> , 2005 , 04, 559-566	0.6	2
52	NEAR FIELD AND SURFACE FIELD ANALYSIS OF THIN WIRE ANTENNA IN THE PRESENCE OF CONDUCTING CUBE. <i>Progress in Electromagnetics Research</i> , 2004 , 45, 313-333	3.8	1
51	High resolution and aspect ratio two-dimensional photonic band-gap crystal. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004 , 22, 2640		14
50	Discrete wavelength tunable laser using microelectromechanical systems technology. <i>Applied Physics Letters</i> , 2004 , 84, 329-331	3.4	41
49	Control of a MEMS optical switch 2004 ,		21
48	A New Approach of Lateral RF MEMS Switch. <i>Analog Integrated Circuits and Signal Processing</i> , 2004 , 40, 165-173	1.2	10
47	Design and simulation of MEMS optical switch using photonic bandgap crystal. <i>Microsystem Technologies</i> , 2004 , 10, 400-406	1.7	21
46	An approach to the coupling effect between torsion and bending for electrostatic torsional micromirrors. <i>Sensors and Actuators A: Physical</i> , 2004 , 115, 159-167	3.9	68
45	MEMS switch based serial reconfigurable OADM. <i>Optics Communications</i> , 2004 , 230, 81-89	2	12

44	Tunable laser using micromachined grating with continuous wavelength tuning. <i>Applied Physics Letters</i> , 2004 , 85, 3684-3686	3.4	29
43	Design and simulation of MEMS optical switch using photonic bandgap crystal 2004 , 10, 400		3
42	Optical and mechanical models for a variable optical attenuator using a micromirror drawbridge. <i>Journal of Micromechanics and Microengineering</i> , 2003 , 13, 400-411	2	32
41	Technique for preventing stiction and notching effect on silicon-on-insulator microstructure. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003 , 21, 2530		33
40	INVESTIGATION OF LOADING EFFECT IN DEEP TRENCH LISA TECHNOLOGY. <i>International Journal of Computational Engineering Science</i> , 2003 , 04, 303-306		1
39	A simplified hybrid calculation method for the surface fields and near fields of surface-current patches. <i>Microwave and Optical Technology Letters</i> , 2003 , 36, 471-474	1.2	1
38	Polysilicon micromachined fiber-optical attenuator for DWDM applications. <i>Sensors and Actuators A: Physical</i> , 2003 , 108, 28-35	3.9	13
37	Advanced fiber optical switches using deep RIE (DRIE) fabrication. <i>Sensors and Actuators A: Physical</i> , 2003 , 102, 286-295	3.9	69
36	Mechanical characterization of micromachined capacitive switches: design consideration and experimental verification. <i>Sensors and Actuators A: Physical</i> , 2003 , 108, 36-48	3.9	28
35	Single-/multi-mode tunable lasers using MEMS mirror and grating. <i>Sensors and Actuators A: Physical</i> , 2003 , 108, 49-54	3.9	17
34	New near-field and far-field attenuation models for free-space variable optical attenuators. <i>Journal of Lightwave Technology</i> , 2003 , 21, 3417-3426	4	5
33	Micromachined wavelength tunable laser with an extended feedback model. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2002 , 8, 73-79	3.8	18
32	Finite element simulation and theoretical analysis of fiber-optical switches. <i>Sensors and Actuators A: Physical</i> , 2002 , 96, 167-178	3.9	2
31	MEMS variable optical attenuator using low driving voltage for DWDM systems. <i>Electronics Letters</i> , 2002 , 38, 382	1.1	37
30	A study of the static characteristics of a torsional micromirror. <i>Sensors and Actuators A: Physical</i> , 2001 , 90, 73-81	3.9	144
29	Mechanical design and optimization of capacitive micromachined switch. <i>Sensors and Actuators A: Physical</i> , 2001 , 93, 273-285	3.9	172
28	A New CMOS Buffer Amplifier Design Used in Low Voltage MEMS Interface Circuits. <i>Analog Integrated Circuits and Signal Processing</i> , 2001 , 27, 7-17	1.2	5
27	Designing and modelling of a grating-based displacement micro-transducer. <i>Nanotechnology</i> , 2001 , 12, 308-315	3.4	6

26	A novel integrated micromachined tunable laser using polysilicon 3-D mirror. <i>IEEE Photonics Technology Letters</i> , 2001 , 13, 427-429	2.2	26
25	Optical Switch Using Draw-Bridge Micromirror for Large Array Crossconnects 2001 , 1296-1299		4
24	Micro-opto-mechanical grating switches. <i>Sensors and Actuators A: Physical</i> , 2000 , 86, 127-134	3.9	13
23	The Effective Design of Bean Bag as a Vibroimpact Damper. <i>Shock and Vibration</i> , 2000 , 7, 343-354	1.1	8
22	Substructure Simulation of Viscoelastic-Elastic Multibody Systems. <i>JVC/Journal of Vibration and Control</i> , 2000 , 6, 163-188	2	
21	A study on magnesium diffusion into LiNbO3 single crystal by x-ray diffraction, differential thermal analysis, and scanning electron microscopy. <i>Journal of Materials Research</i> , 1997 , 12, 3380-3385	2.5	4
20	Mixed-interface substructures for dynamic analysis of flexible multibody systems. <i>Engineering Structures</i> , 1996 , 18, 495-503	4.7	14
19	Non-linear substructure approach for dynamic analysis of rigid-flexible multibody systems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1994 , 114, 379-396	5.7	24
18	Dynamics of flexible multibody systems using loaded-interface substructure synthesis approach. <i>Computational Mechanics</i> , 1994 , 15, 270-283	4	10
17	Statistical energy analysis on the damping effect of the oil pan on engine vibration. <i>Applied Acoustics</i> , 1991 , 34, 131-141	3.1	
16			8
15	MEMS-based tunable bandstop filter using electromagnetic bandgap (EBG) structures		10
14	Micromachined tunable bandstop filters for wireless sensor networks		1
13	MEMS variable optical attenuator with linear attenuation using normal fibers		2
12	A compact DC - 20 GHz SPDT switch circuit using lateral RF MEMS switches		1
11	Open vs. Closed-Loop Control of the MEMS Electrostatic Comb Drive		7
10	An approach of lateral RF MEMS switch for high performance		5
9	MEMS-based photonic bandgap (PBG) band-stop filter		4

8	A single-pole double-throw (SPDT) circuit using deep etching lateral metal-contact switches	3
7	Optical MEMS switch control and packaging	1
6	A novel drie fabrication process development for SOI-based MEMS devices	2
5	Wide tuning range MEMS band-pass filter with inductance change	1
4	Determination of refractive index for single living cell using integrated biochip	13
3	MEMS Littman tunable laser using curve-shaped blazed grating	1
2	Machine-Learning-Assisted Intelligent Imaging Flow Cytometry: A Review. <i>Advanced Intelligent Systems</i> ,2100073	6 3
1	Multifunctional Virus Manipulation with Large-Scale Arrays of All-Dielectric Resonant Nanocavities. <i>Laser and Photonics Reviews</i> ,2100197	8.3 4