

Ai Qun Liu

List of Publications by Year in descending order

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382
papers

10,867
citations

34105

52
h-index

43889

91
g-index

389
all docs

389
docs citations

389
times ranked

9410
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Efficiency Broadband Meta-Hologram with Polarization-Controlled Dual Images. Nano Letters, 2014, 14, 225-230.	9.1	655
2	The Poisson distribution and beyond: methods for microfluidic droplet production and single cell encapsulation. Lab on A Chip, 2015, 15, 3439-3459.	6.0	384
3	An optical neural chip for implementing complex-valued neural network. Nature Communications, 2021, 12, 457.	12.8	251
4	A tunable 3D optofluidic waveguide dye laser via two centrifugal Dean flow streams. Lab on A Chip, 2011, 11, 3182.	6.0	246
5	Switchable Magnetic Metamaterials Using Micromachining Processes. Advanced Materials, 2011, 23, 1792-1796.	21.0	228
6	Band gap opening of graphene by doping small boron nitride domains. Nanoscale, 2012, 4, 2157.	5.6	225
7	Microelectromechanical Maltese-cross metamaterial with tunable terahertz anisotropy. Nature Communications, 2012, 3, 1274.	12.8	217
8	Optical Anapole Metamaterial. ACS Nano, 2018, 12, 1920-1927.	14.6	216
9	Context Contrasted Feature and Gated Multi-scale Aggregation for Scene Segmentation. , 2018, , .		214
10	Mechanical design and optimization of capacitive micromachined switch. Sensors and Actuators A: Physical, 2001, 93, 273-285.	4.1	198
11	An integrated silicon photonic chip platform for continuous-variable quantum key distribution. Nature Photonics, 2019, 13, 839-842.	31.4	196
12	Determining refractive index of single living cell using an integrated microchip. Sensors and Actuators A: Physical, 2007, 133, 349-354.	4.1	185
13	A study of the static characteristics of a torsional micromirror. Sensors and Actuators A: Physical, 2001, 90, 73-81.	4.1	183
14	Broadband Wide-Angle Multifunctional Polarization Converter via Liquid-Metal-Based Metasurface. Advanced Optical Materials, 2017, 5, 1600938.	7.3	172
15	A Micromachined Reconfigurable Metamaterial via Reconfiguration of Asymmetric Split-Ring Resonators. Advanced Functional Materials, 2011, 21, 3589-3594.	14.9	170
16	Nanometer-precision linear sorting with synchronized optofluidic dual barriers. Science Advances, 2018, 4, eaao0773.	10.3	161
17	Optofluidic waveguide as a transformation optics device for lightwave bending and manipulation. Nature Communications, 2012, 3, 651.	12.8	153
18	Metalenses: Advances and Applications. Advanced Optical Materials, 2018, 6, 1800554.	7.3	149

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19	Micromachined tunable metamaterials: a review. <i>Journal of Optics (United Kingdom)</i> , 2012, 14, 114009.	2.2	137
20	Open-loop versus closed-loop control of MEMS devices: choices and issues. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 1917-1924.	2.6	134
21	Chip-based quantum key distribution. <i>AAPPS Bulletin</i> , 2021, 31, 1.	6.1	132
22	Refractive index measurement of single living cells using on-chip Fabry-Pérot cavity. <i>Applied Physics Letters</i> , 2006, 89, 203901.	3.3	129
23	Sculpting nanoparticle dynamics for single-bacteria-level screening and direct binding-efficiency measurement. <i>Nature Communications</i> , 2018, 9, 815.	12.8	129
24	A review of MEMS external-cavity tunable lasers. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, R1-R13.	2.6	121
25	A Flat Lens with Tunable Phase Gradient by Using Random Access Reconfigurable Metamaterial. <i>Advanced Materials</i> , 2015, 27, 4739-4743.	21.0	121
26	Water-Resonator-Based Metasurface: An Ultrabroadband and Near-Unity Absorption. <i>Advanced Optical Materials</i> , 2017, 5, 1601103.	7.3	112
27	Semantic Segmentation With Context Encoding and Multi-Path Decoding. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 3520-3533.	9.8	103
28	Stirring in Suspension: Nanometer-Sized Magnetic Stir Bars. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8570-8573.	13.8	100
29	Advanced fiber optical switches using deep RIE (DRIE) fabrication. <i>Sensors and Actuators A: Physical</i> , 2003, 102, 286-295.	4.1	94
30	Chirality-assisted lateral momentum transfer for bidirectional enantioselective separation. <i>Light: Science and Applications</i> , 2020, 9, 62.	16.6	92
31	Space-efficient optical computing with an integrated chip diffractive neural network. <i>Nature Communications</i> , 2022, 13, 1044.	12.8	90
32	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.	4.1	82
33	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.	6.0	79
34	A nano-opto-mechanical pressure sensor via ring resonator. <i>Optics Express</i> , 2012, 20, 8535.	3.4	79
35	Roadmap for optofluidics. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 093003.	2.2	78
36	Microring resonator-assisted Fourier transform spectrometer with enhanced resolution and large bandwidth in single chip solution. <i>Nature Communications</i> , 2019, 10, 2349.	12.8	73

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37	Magnetic plasmon induced transparency in three-dimensional metamolecules. <i>Nanophotonics</i> , 2012, 1, 131-138.	6.0	72
38	Plasmon coupling in vertical split-ring resonator metamolecules. <i>Scientific Reports</i> , 2015, 5, 9726.	3.3	71
39	Nano-optomechanical Actuator and Pull-Back Instability. <i>ACS Nano</i> , 2013, 7, 1676-1681.	14.6	69
40	Plasmonic Sensors for Extracellular Vesicle Analysis: From Scientific Development to Translational Research. <i>ACS Nano</i> , 2020, 14, 14528-14548.	14.6	69
41	Advances in lithium niobate photonics: development status and perspectives. <i>Advanced Photonics</i> , 2022, 4, .	11.8	67
42	Single cell membrane poration by bubble-induced microjets in a microfluidic chip. <i>Lab on A Chip</i> , 2013, 13, 1144.	6.0	65
43	Label-free detection with micro optical fluidic systems (MOFS): a review. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 2443-2452.	3.7	63
44	A study of dynamic characteristics and simulation of MEMS torsional micromirrors. <i>Sensors and Actuators A: Physical</i> , 2005, 120, 199-210.	4.1	62
45	Efficient On-Chip Training of Optical Neural Networks Using Genetic Algorithm. <i>ACS Photonics</i> , 2021, 8, 1662-1672.	6.6	61
46	Polarization dependent state to polarization independent state change in THz metamaterials. <i>Applied Physics Letters</i> , 2011, 99, 221102.	3.3	60
47	Discrete wavelength tunable laser using microelectromechanical systems technology. <i>Applied Physics Letters</i> , 2004, 84, 329-331.	3.3	58
48	Different curvatures of tunable liquid microlens via the control of laminar flow rate. <i>Applied Physics Letters</i> , 2008, 93, 084101.	3.3	58
49	A reconfigurable optofluidic Michelson interferometer using tunable droplet grating. <i>Lab on A Chip</i> , 2010, 10, 1072.	6.0	58
50	0.2 μm Thick Adaptive Retroreflector Made of Spin-Locked Metasurface. <i>Advanced Materials</i> , 2018, 30, e1802721.	21.0	58
51	Differential single living cell refractometry using grating resonant cavity with optical trap. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	57
52	Low-loss lateral micromachined switches for high frequency applications. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 157-167.	2.6	55
53	High-resolution and multi-range particle separation by microscopic vibration in an optofluidic chip. <i>Lab on A Chip</i> , 2017, 17, 2443-2450.	6.0	53
54	A liquid waveguide based evanescent wave sensor integrated onto a microfluidic chip. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	52

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55	Linear MEMS variable optical attenuator using reflective elliptical mirror. IEEE Photonics Technology Letters, 2005, 17, 402-404.	2.5	50
56	An optofluidic prism tuned by two laminar flows. Lab on A Chip, 2011, 11, 1864.	6.0	50
57	MEMS variable optical attenuator using low driving voltage for DWDM systems. Electronics Letters, 2002, 38, 382.	1.0	49
58	Fabrication of phase-change chalcogenide Ge ₂ Sb ₂ Te ₅ patterns by laser-induced forward transfer. Optics Express, 2011, 19, 16975.	3.4	49
59	Arbitrary and Independent Polarization Control In Situ via a Single Metasurface. Advanced Optical Materials, 2018, 6, 1800728.	7.3	49
60	Microfluidic continuous particle/cell separation via electroosmotic-flow-tuned hydrodynamic spreading. Journal of Micromechanics and Microengineering, 2007, 17, 1992-1999.	2.6	48
61	Nanophotonic Array-Induced Dynamic Behavior for Label-Free Shape-Selective Bacteria Sieving. ACS Nano, 2019, 13, 12070-12080.	14.6	48
62	Short pulse passively Q-switched Nd:GdYVO ₄ laser using a GaAs mirror. Optics Communications, 2006, 259, 256-260.	2.1	47
63	Optical Potential-Well Array for High-Selectivity, Massive Trapping and Sorting at Nanoscale. Nano Letters, 2020, 20, 5193-5200.	9.1	47
64	Micromachined switchable metamaterial with dual resonance. Applied Physics Letters, 2012, 101, 151902.	3.3	46
65	Study of endothelial cell apoptosis using fluorescence resonance energy transfer (FRET) biosensor cell line with hemodynamic microfluidic chip system. Lab on A Chip, 2013, 13, 2693-2700.	6.0	46
66	Effects of surface roughness on electromagnetic characteristics of capacitive switches. Journal of Micromechanics and Microengineering, 2006, 16, 2157-2166.	2.6	45
67	Nano-opto-mechanical actuator driven by gradient optical force. Applied Physics Letters, 2012, 100, .	3.3	45
68	A nanomachined optical logic gate driven by gradient optical force. Applied Physics Letters, 2012, 100, 113104.	3.3	43
69	Optical and mechanical models for a variable optical attenuator using a micromirror drawbridge. Journal of Micromechanics and Microengineering, 2003, 13, 400-411.	2.6	42
70	Improvement of isolation for MEMS capacitive switch via membrane planarization. Sensors and Actuators A: Physical, 2005, 119, 206-213.	4.1	42
71	Nonuniform photonic crystal taper for high-efficiency mode coupling. Optics Express, 2005, 13, 7748.	3.4	42
72	Technique for preventing stiction and notching effect on silicon-on-insulator microstructure. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 2530.	1.6	41

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73	Tolerance analysis for comb-drive actuator using DRIE fabrication. Sensors and Actuators A: Physical, 2006, 125, 494-503.	4.1	41
74	Transformation optofluidics for large-angle light bending and tuning. Lab on A Chip, 2012, 12, 3785.	6.0	41
75	Droplet optofluidic imaging for λ -bacteriophage detection via co-culture with host cell Escherichia coli. Lab on A Chip, 2014, 14, 3519-3524.	6.0	41
76	Tunable laser using micromachined grating with continuous wavelength tuning. Applied Physics Letters, 2004, 85, 3684-3686.	3.3	40
77	Tunable Polarization Conversion and Rotation based on a Reconfigurable Metasurface. Scientific Reports, 2017, 7, 12068.	3.3	40
78	Pangolin-inspired Stretchable, Microwave-Invisible Metascale. Advanced Materials, 2021, 33, e2102131.	21.0	40
79	The lateral instability problem in electrostatic comb drive actuators: modeling and feedback control. Journal of Micromechanics and Microengineering, 2006, 16, 1233-1241.	2.6	39
80	Exact Solutions for Free-Vibration Analysis of Rectangular Plates Using Bessel Functions. Journal of Applied Mechanics, Transactions ASME, 2007, 74, 1247-1251.	2.2	39
81	Design, simulation and experiment of electroosmotic microfluidic chip for cell sorting. Sensors and Actuators A: Physical, 2007, 133, 340-348.	4.1	39
82	Adaptable metasurface for dynamic anomalous reflection. Applied Physics Letters, 2017, 110, .	3.3	39
83	A novel integrated micromachined tunable laser using polysilicon 3-D mirror. IEEE Photonics Technology Letters, 2001, 13, 427-429.	2.5	38
84	Control of a MEMS optical switch. , 2004, , .		38
85	Microfluidic droplet grating for reconfigurable optical diffraction. Optics Letters, 2010, 35, 1890.	3.3	37
86	Continuous wavelength tuning in micromachined Littrow external-cavity lasers. IEEE Journal of Quantum Electronics, 2005, 41, 187-197.	1.9	35
87	Extraordinary Multipole Modes and Ultra-Enhanced Optical Lateral Force by Chirality. Physical Review Letters, 2020, 125, 043901.	7.8	35
88	An on-chip liquid tunable grating using multiphase droplet microfluidics. Applied Physics Letters, 2008, 93, 164107.	3.3	34
89	Determination of single living cell's dry/water mass using optofluidic chip. Applied Physics Letters, 2007, 91, 223902.	3.3	33
90	Liquid-metal-based metasurface for terahertz absorption material: Frequency-agile and wide-angle. APL Materials, 2017, 5, 066103.	5.1	33

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91	A nanoelectromechanical systems actuator driven and controlled by Q-factor attenuation of ring resonator. <i>Applied Physics Letters</i> , 2013, 103, 181105.	3.3	32
92	Optofluidic lens with low spherical and low field curvature aberrations. <i>Lab on A Chip</i> , 2016, 16, 1617-1624.	6.0	32
93	Metafluidic metamaterial: a review. <i>Advances in Physics: X</i> , 2018, 3, 1417055.	4.1	32
94	Chip-Based Measurement-Device-Independent Quantum Key Distribution Using Integrated Silicon Photonic Systems. <i>Physical Review Applied</i> , 2020, 14, .	3.8	32
95	Pure angular momentum generator using a ring resonator. <i>Optics Express</i> , 2010, 18, 21651.	3.4	31
96	Highly Sensitive, Label-Free Detection of 2,4-Dichlorophenoxyacetic Acid Using an Optofluidic Chip. <i>ACS Sensors</i> , 2017, 2, 955-960.	7.8	31
97	Mechanical characterization of micromachined capacitive switches: design consideration and experimental verification. <i>Sensors and Actuators A: Physical</i> , 2003, 108, 36-48.	4.1	30
98	Three-dimensional Plasmonic Micro Projector for Light Manipulation. <i>Advanced Materials</i> , 2013, 25, 1118-1123.	21.0	30
99	Chemiluminescence detector based on a single planar transparent digital microfluidic device. <i>Lab on A Chip</i> , 2013, 13, 2714.	6.0	30
100	A pseudo-planar metasurface for a polarization rotator. <i>Optics Express</i> , 2014, 22, 10446.	3.4	30
101	Fast on-demand droplet fusion using transient cavitation bubbles. <i>Lab on A Chip</i> , 2011, 11, 1879.	6.0	29
102	Micromachined wavelength tunable laser with an extended feedback model. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2002, 8, 73-79.	2.9	28
103	Design and simulation of MEMS optical switch using photonic bandgap crystal. <i>Microsystem Technologies</i> , 2004, 10, 400-406.	2.0	28
104	A tunable bandstop filter via the capacitance change of micromachined switches. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 851-861.	2.6	28
105	On-chip Optical Detection of Viruses: A Review. <i>Advanced Photonics Research</i> , 2021, 2, 2000150.	3.6	27
106	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.	6.6	26
107	Micromachined optical well structure for thermo-optic switching. <i>Applied Physics Letters</i> , 2007, 91, 261106.	3.3	26
108	A Reconfigurable Micromachined Switching Filter Using Periodic Structures. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007, 55, 1154-1162.	4.6	26

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109	Force-induced optical nonlinearity and Kerr-like coefficient in opto-mechanical ring resonators. Optics Express, 2012, 20, 18005.	3.4	25
110	Optical-force-induced bistability in nanomachined ring resonator systems. Applied Physics Letters, 2012, 100, 093108.	3.3	25
111	A modeling and analysis of spring-shaped torsion micromirrors for low-voltage applications. International Journal of Mechanical Sciences, 2006, 48, 650-661.	6.7	24
112	Characterization and optimization of dry releasing for the fabrication of RF MEMS capacitive switches. Journal of Micromechanics and Microengineering, 2007, 17, 2024-2030.	2.6	24
113	Machine Learning Assisted Intelligent Imaging Flow Cytometry: A Review. Advanced Intelligent Systems, 2021, 3, 2100073.	6.1	24
114	RF MEMS Switches and Integrated Switching Circuits. Journal of Semiconductor Technology and Science, 2007, 7, 166-176.	0.4	24
115	High isolation X-band MEMS capacitive switches. Sensors and Actuators A: Physical, 2005, 120, 241-248.	4.1	23
116	A micromachined optical double well for thermo-optic switching via resonant tunneling effect. Applied Physics Letters, 2008, 92, 251101.	3.3	23
117	Cylindrical Surfaces Enable Wavelength-Selective Extinction and Sub-0.2 nm Linewidth in 250 nm-Cap Silicon Fabry-Pérot Cavities. Journal of Microelectromechanical Systems, 2012, 21, 171-180.	2.5	23
118	Droplet generation via a single bubble transformation in a nanofluidic channel. Lab on A Chip, 2015, 15, 1451-1457.	6.0	23
119	Smart ring resonator based sensor for multicomponent chemical analysis via machine learning. Photonics Research, 2021, 9, B38.	7.0	23
120	Multifunctional Virus Manipulation with Large Scale Arrays of All-Dielectric Resonant Nanocavities. Laser and Photonics Reviews, 2022, 16, .	8.7	23
121	Mixed-interface substructures for dynamic analysis of flexible multibody systems. Engineering Structures, 1996, 18, 495-503.	5.3	22
122	Determination of refractive index for single living cell using integrated biochip. , 0, , .		22
123	Micromachined Fabry-Perot resonator combining submillimeter cavity length and high quality factor. Applied Physics Letters, 2011, 98, .	3.3	22
124	Fabrication of three-dimensional plasmonic cavity by femtosecond laser-induced forward transfer. Optics Express, 2013, 21, 618.	3.4	22
125	A Single-Chip Integrated Spectrometer via Tunable Microring Resonator Array. IEEE Photonics Journal, 2019, 11, 1-9.	2.0	22
126	Split Archimedean spiral metasurface for controllable GHz asymmetric transmission. Applied Physics Letters, 2019, 114, .	3.3	22

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127	Continuous optical sorting of nanoscale biomolecules in integrated microfluidic-nanophotonic chips. <i>Sensors and Actuators B: Chemical</i> , 2021, 331, 129428.	7.8	22
128	Micro-opto-mechanical grating switches. <i>Sensors and Actuators A: Physical</i> , 2000, 86, 127-134.	4.1	21
129	CytoPAN—Portable cellular analyses for rapid point-of-care cancer diagnosis. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	21
130	Single-/multi-mode tunable lasers using MEMS mirror and grating. <i>Sensors and Actuators A: Physical</i> , 2003, 108, 49-54.	4.1	20
131	A Novel Reconfigurable Filter Using Periodic Structures. , 2006, , .		20
132	Resonance Switchable Metamaterials Using MEMS Fabrications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013, 19, 4700306-4700306.	2.9	20
133	Demonstration of a Photonic-Based Linear Temperature Sensor. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 767-769.	2.5	20
134	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.	2.0	18
135	Retro-Axial VOA Using Parabolic Mirror Pair. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 692-694.	2.5	18
136	Photonic bandgap crystal resonator enhanced, laser controlled modulations of optical interconnects for photonic integrated circuits. <i>Optics Express</i> , 2008, 16, 7842.	3.4	18
137	Trapping and Detection of Single Viruses in an Optofluidic Chip. <i>ACS Sensors</i> , 2021, 6, 3445-3450.	7.8	18
138	A single-pole double-throw (SPDT) circuit using lateral metal-contact micromachined switches. <i>Sensors and Actuators A: Physical</i> , 2005, 121, 187-196.	4.1	17
139	A Real Pivot Structure for MEMS Tunable Lasers. <i>Journal of Microelectromechanical Systems</i> , 2007, 16, 269-278.	2.5	17
140	A micromachined tunable coupled-cavity laser for wide tuning range and high spectral purity. <i>Optics Express</i> , 2008, 16, 16670.	3.4	17
141	Study of cyanoethyl pullulan as insulator for electrowetting. <i>Sensors and Actuators B: Chemical</i> , 2014, 199, 183-189.	7.8	17
142	Massive nanophotonic trapping and alignment of rod-shaped bacteria for parallel single-cell studies. <i>Sensors and Actuators B: Chemical</i> , 2020, 306, 127562.	7.8	17
143	Superhybrid Mode-Enhanced Optical Torques on Mie-Resonant Particles. <i>Nano Letters</i> , 2022, 22, 1769-1777.	9.1	17
144	MEMS-Based Tunable Bandstop Filter Using Electromagnetic Bandgap (EBG) Structures. , 0, , .		16

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145	High resolution and aspect ratio two-dimensional photonic band-gap crystal. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 2640.	1.6	15
146	Micromachined DC contact capacitive switch on low-resistivity silicon substrate. Sensors and Actuators A: Physical, 2006, 127, 24-30.	4.1	15
147	A miniature tunable coupled-cavity laser constructed by micromachining technology. Applied Physics Letters, 2008, 92, 031105.	3.3	15
148	Polysilicon micromachined fiber-optical attenuator for DWDM applications. Sensors and Actuators A: Physical, 2003, 108, 28-35.	4.1	14
149	MEMS switch based serial reconfigurable OADM. Optics Communications, 2004, 230, 81-89.	2.1	14
150	Asymmetric Tuning Schemes of MEMS Dual-Shutter VOA. Journal of Lightwave Technology, 2008, 26, 569-579.	4.6	14
151	Cell compressibility studies utilizing noncontact hydrostatic pressure measurements on single living cells in a microchamber. Applied Physics Letters, 2008, 92, .	3.3	14
152	Silencing of the hTERT Gene by shRNA Inhibits Colon Cancer SW480 Cell Growth In Vitro and In Vivo. PLoS ONE, 2014, 9, e107019.	2.5	14
153	Water's tensile strength measured using an optofluidic chip. Lab on A Chip, 2015, 15, 2158-2161.	6.0	14
154	Chemical reaction monitoring via the light focusing in optofluidic waveguides. Sensors and Actuators B: Chemical, 2019, 280, 16-23.	7.8	14
155	Transmitting light efficiently on photonic crystal surface waveguide bend. Applied Physics Letters, 2007, 91, 171109.	3.3	13
156	Thermal-Optic Switch by Total Internal Reflection of Micromachined Silicon Prism. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 348-358.	2.9	13
157	Deep learning-enabled high-speed <i>Cryptosporidium</i> and <i>Giardia</i> detection. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2021, 99, 1123-1133.	1.5	13
158	Optimization of design and fabrication for micromachined true time delay (TTD) phase shifters. Sensors and Actuators A: Physical, 2005, 119, 446-454.	4.1	12
159	Broad-Band Band-Pass and Band-Stop Filters with Sharp Cut-off Frequencies Based on Series CPW Stubs. , 2006, , .		12
160	Modified step-theory for investigating mode coupling mechanism in photonic crystal waveguide taper. Optics Express, 2006, 14, 6035.	3.4	12
161	Design and Experiment of 3-Dimensional Micro-Optical System for MEMS Tunable Lasers. , 0, , .		12
162	A silicon-nanowire memory driven by optical gradient force induced bistability. Applied Physics Letters, 2015, 107, .	3.3	12

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163	Optofluidic Microengine in A Dynamic Flow Environment via Self-Induced Back-Action. ACS Photonics, 2020, 7, 1500-1507.	6.6	12
164	The Effective Design of Bean Bag as a Vibroimpact Damper. Shock and Vibration, 2000, 7, 343-354.	0.6	11
165	A New Approach of Lateral RF MEMS Switch. Analog Integrated Circuits and Signal Processing, 2004, 40, 165-173.	1.4	11
166	Multiple scattering of a spherical acoustic wave from fluid spheres. Journal of Sound and Vibration, 2006, 290, 17-33.	3.9	11
167	Liquid refractive index sensors using resonant optical tunneling effect for ultra-high sensitivity. Sensors and Actuators A: Physical, 2011, 169, 347-351.	4.1	11
168	Coupled-ring reflector in an external-cavity tunable laser. Optica, 2015, 2, 940.	9.3	11
169	Torsional frequency mixing and sensing in optomechanical resonators. Applied Physics Letters, 2017, 111, .	3.3	11
170	Fas-associated factor 1 inhibits tumor growth by suppressing Helicobacter pylori-induced activation of NF- κ B signaling in human gastric carcinoma. Oncotarget, 2017, 8, 7999-8009.	1.8	11
171	Dynamics of flexible multibody systems using loaded-interface substructure synthesis approach. Computational Mechanics, 1994, 15, 270-283.	4.0	10
172	Low-pass filter using a hybrid EBG structure. Microwave and Optical Technology Letters, 2005, 45, 95-98.	1.4	10
173	Light switching via thermo-optic effect of micromachined silicon prism. Applied Physics Letters, 2006, 88, 243501.	3.3	10
174	Micromachined tunable filter using fractal electromagnetic bandgap (EBG) structures. Sensors and Actuators A: Physical, 2007, 133, 355-362.	4.1	10
175	Tunable dual-wavelength laser constructed by silicon micromachining. Applied Physics Letters, 2008, 92, 051113.	3.3	10
176	Real-time measurement of thrombin generation using continuous droplet microfluidics. Biomicrofluidics, 2014, 8, 052108.	2.4	10
177	First Report of <i>Coleus blumei</i> viroid 2 from Commercial Coleus in China. Plant Disease, 2011, 95, 494-494.	1.4	10
178	Regulation of lipid droplets in live preadipocytes using optical diffraction tomography and Raman spectroscopy. Optics Express, 2019, 27, 22994.	3.4	10
179	Miniaturized injection-locked laser using microelectromechanical systems technology. Applied Physics Letters, 2005, 87, 101101.	3.3	9
180	Light-Intensity-Feedback-Waveform Generator Based on MEMS Variable Optical Attenuator. IEEE Transactions on Industrial Electronics, 2008, 55, 417-426.	7.9	9

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181	A frequency-selective circulator via mode coupling between surface waveguide and resonators. Applied Physics Letters, 2008, 92, 021119.	3.3	9
182	A MEMS tunable metamaterial filter. , 2010, , .		9
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