

Ming C Wu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

378 papers	12,420 citations	58 h-index	99 g-index
486 ext. papers	15,162 ext. citations	4.1 avg, IF	6.35 L-index

#	Paper	IF	Citations
378	A large-scale microelectromechanical-systems-based silicon photonics LiDAR.. <i>Nature</i> , 2022 , 603, 253-258	30.4	10
377	Large-scale Silicon Photonics Focal Plane Switch Array for Optical Beam Steering 2021 ,		1
376	Sub-50 cm/s surface recombination velocity in InGaAsP/InP ridges. <i>Applied Physics Letters</i> , 2021 , 119, 191102	3.4	0
375	Hybrid Convolutional Optoelectronic Reservoir Computing for Image Recognition. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	1
374	Image classification using delay-based optoelectronic reservoir computing 2021 ,		2
373	Co-planar light-actuated optoelectrowetting microfluidic device for droplet manipulation 2021 , 1,		3
372	Efficient spontaneous emission by metal-dielectric antennas; antenna Purcell factor explained. <i>Optics Express</i> , 2021 , 29, 22018-22033	3.3	1
371	A Monolithically Integrated Racetrack Colliding-Pulse Mode-Locked Laser With Pulse-Picking Modulator. <i>IEEE Journal of Quantum Electronics</i> , 2020 , 56, 1-8	2	4
370	A 20x20 Focal Plane Switch Array for Optical Beam Steering 2020 ,		1
369	Hierarchical Design and Optimization of Silicon Photonics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020 , 26, 1-12	3.8	11
368	Towards On-Chip Self-Referenced Frequency-Comb Sources Based on Semiconductor Mode-Locked Lasers. <i>Micromachines</i> , 2019 , 10,	3.3	5
367	Nanoscale integration of single cell biologics discovery processes using optofluidic manipulation and monitoring. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 2393-2411	4.9	11
366	Bright electroluminescence in ambient conditions from WSe ₂ p-n diodes using pulsed injection. <i>Applied Physics Letters</i> , 2019 , 115, 011103	3.4	5
365	Silicon photonic wavelength cross-connect with integrated MEMS switching. <i>APL Photonics</i> , 2019 , 4, 100803	3.3	17
364	Laser frequency sweep linearization by iterative learning pre-distortion for FMCW LiDAR. <i>Optics Express</i> , 2019 , 27, 9965-9974	3.3	37
363	Multicast silicon photonic MEMS switches with gap-adjustable directional couplers. <i>Optics Express</i> , 2019 , 27, 17561-17570	3.3	7
362	Silicon Photonic MEMS Phase-Shifter. <i>Optics Express</i> , 2019 , 27, 18959-18969	3.3	10

361	Inverse design optimization for efficient coupling of an electrically injected optical antenna-LED to a single-mode waveguide. <i>Optics Express</i> , 2019 , 27, 19802-19814	3.3	10
360	240×240 Wafer-Scale Silicon Photonic Switches 2019 ,		7
359	Wafer-scale silicon photonic switches beyond die size limit. <i>Optica</i> , 2019 , 6, 490	8.6	60
358	2D broadband beamsteering with large-scale MEMS optical phased array. <i>Optica</i> , 2019 , 6, 557	8.6	65
357	Large Scale Silicon Photonics Switches Based on MEMS Technology 2019 ,		2
356	. <i>Journal of Lightwave Technology</i> , 2018 , 36, 1824-1830	4	28
355	Large-area and bright pulsed electroluminescence in monolayer semiconductors. <i>Nature Communications</i> , 2018 , 9, 1229	17.4	93
354	High-accuracy range-sensing system based on FMCW using low-cost VCSEL. <i>Optics Express</i> , 2018 , 26, 9285-9297	3.3	47
353	Cascaded Integration of Optical Waveguides With Third-Order Nonlinearity With Lithium Niobate Waveguides on Silicon Substrates. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-9	1.8	11
352	Repetition Rate Stabilization and Optical Axial Mode Linewidth Reduction of a Chip-Scale MLL Using Regenerative Multitone Injection Locking. <i>Journal of Lightwave Technology</i> , 2018 , 36, 2948-2954	4	5
351	Picojoule-level octave-spanning supercontinuum generation in chalcogenide waveguides. <i>Optics Express</i> , 2018 , 26, 21358-21363	3.3	22
350	Ultrafast Spontaneous Emission from a Slot-Antenna Coupled WSe ₂ Monolayer. <i>ACS Photonics</i> , 2018 , 5, 2701-2705	6.3	12
349	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018 , 24, 1-8	3.8	
348	128×128 Silicon Photonic MEMS Switch with Scalable Row/Column Addressing 2018 ,		14
347	MEMS-Actuated 8×8 Silicon Photonic Wavelength-Selective Switches with 8 Wavelength Channels 2018 ,		8
346	Digital Silicon Photonic MEMS Phase-Shifter 2018 ,		2
345	Micromirror based optical phased array for wide-angle beamsteering 2017 ,		8
344	Flip Chip Packaging of Digital Silicon Photonics MEMS Switch for Cloud Computing and Data Centre. <i>IEEE Photonics Journal</i> , 2017 , 1-1	1.8	9

343	Lidar System Architectures and Circuits 2017 , 55, 135-142		92
342	High Density Optical Packaging of High Radix Silicon Photonic Switches 2017 ,		6
341	Silicon photonics enabled hyper-wideband wireless communication link 2017 ,		1
340	Electronic-Photonic Integrated Circuit for 3D Microimaging. <i>IEEE Journal of Solid-State Circuits</i> , 2017 , 52, 161-172	5.5	28
339	128 × 128 silicon photonic MEMS switch package using glass interposer and pitch reducing fibre array 2017 ,		5
338	Analog Silicon Photonic MEMS phase-shifter with double-step electrostatic actuation 2017 ,		2
337	Efficient and broadband single-mode waveguide coupling of electrically injected optical antenna based nanoLED 2017 ,		1
336	Efficient single-mode waveguide coupling of electrically injected optical antenna based nanoLED 2017 ,		1
335	Widely tunable semiconductor lasers with three interferometric arms. <i>Optics Express</i> , 2017 , 25, 21400-21409	3.9	2
334	Diffraction-Based Optical Switching with MEMS. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 411	2.6	12
333	An Integrated Racetrack Colliding-Pulse Mode-Locked Laser with Pulse-Picking Modulator 2017 ,		3
332	Optical Linewidth and RF Phase Noise Reduction of a Chip-scale CPM Laser Using COEO Multi-tone Injection Locking 2017 ,		1
331	Die level release of silicon photonic MEMS 2016 ,		3
330	Large-scale broadband digital silicon photonic switches with vertical adiabatic couplers. <i>Optica</i> , 2016 , 3, 64	8.6	152
329	Highly Scalable Digital Silicon Photonic MEMS Switches. <i>Journal of Lightwave Technology</i> , 2016 , 34, 365-371	4	22
328	Scalable Row/Column Addressing of Silicon Photonic MEMS Switches. <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 561-564	2.2	9
327	Dual-Sideband Linear FMCW Lidar with Homodyne Detection for Application in 3D Imaging 2016 ,		5
326	Helium-Ion Milling of Gold Slot Antennas 2016 ,		1

325	Large-Scale Silicon Photonic Switches 2016 ,		3
324	High-Q and low-loss chalcogenide waveguide for nonlinear supercontinuum generation 2016 ,		4
323	Packaging of 50 I/O MEMS-actuated silicon photonics switching device 2016 ,		1
322	Upconversion: Room-Temperature Wavelength-Tunable Single-Band Upconversion Luminescence from Yb3+/Mn2+ Codoped Fluoride Perovskites ABF3 (Advanced Optical Materials 5/2016). <i>Advanced Optical Materials</i> , 2016 , 4, 808-808	8.1	
321	Engineering light outcoupling in 2D materials. <i>Nano Letters</i> , 2015 , 15, 1356-61	11.5	105
320	32 GHz germanium bipolar phototransistors on silicon photonics 2015 ,		1
319	Distributed Circuit Model for Multi-Color Light-Actuated Opto-Electrowetting Microfluidic Device. <i>Journal of Lightwave Technology</i> , 2015 , 33, 3486-3493	4	11
318	Efficient Coupling of an Antenna-Enhanced nanoLED into an Integrated InP Waveguide. <i>Nano Letters</i> , 2015 , 15, 3329-33	11.5	23
317	Germanium wrap-around photodetectors on Silicon photonics. <i>Optics Express</i> , 2015 , 23, 11975-84	3.3	25
316	Large-scale silicon photonic switches with movable directional couplers. <i>Optica</i> , 2015 , 2, 370	8.6	125
315	50/50 Digital Silicon Photonic Switches with MEMS-Actuated Adiabatic Couplers 2015 ,		14
314	Large-scale, MEMS-actuated silicon photonic switches 2015 ,		1
313	Large-Port-Count MEMS Silicon Photonics Switches 2015 ,		3
312	Row/column addressing of scalable silicon photonic MEMS switches 2015 ,		1
311	Reliability study of digital silicon photonic MEMS switches 2015 ,		4
310	64/64 Low-loss and broadband digital silicon photonic MEMS switches 2015 ,		14
309	Large spontaneous emission rate enhancement from an electrically-injected nanoLED coupled to an optical antenna 2015 ,		2
308	Optical antenna enhanced spontaneous emission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 1704-9	11.5	106

307	Enhanced Spontaneous Emission from an Optical Antenna Coupled WSe ₂ Monolayer 2015 ,		1
306	Electrically injected nanoLED with enhanced spontaneous emission from a cavity backed optical slot antenna 2014 ,		3
305	Monolithic 50/50 MEMS Silicon Photonic Switches with Microsecond Response Time 2014 ,		11
304	. <i>Journal of Microelectromechanical Systems</i> , 2014 , 23, 1471-1476	2.5	5
303	Comprehensive model of 1550 nm MEMS-tunable high-contrast-grating VCSELs. <i>Optics Express</i> , 2014 , 22, 8541-55	3.3	7
302	A 32 \times 32 optical phased array using polysilicon sub-wavelength high-contrast-grating mirrors. <i>Optics Express</i> , 2014 , 22, 19029-39	3.3	30
301	High speed optical phased array using high contrast grating all-pass filters. <i>Optics Express</i> , 2014 , 22, 20038-44	3.3	33
300	A multi-material Q-boosted low phase noise optomechanical oscillator 2014 ,		4
299	Germanium Gate PhotoMOSFET Integrated to Silicon Photonics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014 , 20, 1-7	3.8	29
298	Optical phased array using high contrast gratings for two dimensional beamforming and beamsteering. <i>Optics Express</i> , 2013 , 21, 12238-48	3.3	46
297	Enhancement of mechanical Q for low phase noise optomechanical oscillators 2013 ,		4
296	An Integrated, Silica-Based, MEMS-Actuated, Tunable-Bandwidth Optical Filter with Low Minimum Bandwidth 2013 ,		1
295	Optical beamsteering using an 8 \times 8 MEMS phased array with closed-loop interferometric phase control. <i>Optics Express</i> , 2013 , 21, 2807-15	3.3	41
294	Mass-producible and efficient optical antennas with CMOS-fabricated nanometer-scale gap. <i>Optics Express</i> , 2013 , 21, 16561-9	3.3	12
293	Engineering of metal-clad optical nanocavity to optimize coupling with integrated waveguides. <i>Optics Express</i> , 2013 , 21, 25796-804	3.3	24
292	Metal-optic cavity for a high efficiency sub-fF germanium photodiode on a silicon waveguide. <i>Optics Express</i> , 2013 , 21, 22429-40	3.3	4
291	Rapid melt grown germanium gate photoMOSFET on a silicon waveguide 2013 ,		3
290	Design and characterization of MEMS micromotor supported on low friction liquid bearing. <i>Sensors and Actuators A: Physical</i> , 2012 , 177, 1-9	3.9	33

289 Optical and Optoelectronic Tweezers **2012**, 257-275

288 Nanofocusing in a metal-insulator-metal gap plasmon waveguide with a three-dimensional linear taper. *Nature Photonics*, **2012**, 6, 838-844 33.9 252

287 Fast, high-throughput creation of size-tunable micro/nanoparticle clusters via evaporative self-assembly in picoliter-scale droplets of particle suspension. *Langmuir*, **2012**, 28, 3102-11 4 39

286 . *Journal of Lightwave Technology*, **2012**, 30, 3640-3646 4 7

285 Reconfigurable Linear Optical FM Discriminator. *IEEE Photonics Technology Letters*, **2012**, 24, 1856-1859 2.2 15

284 High dynamic range linearized FM photonic link **2012**, 1

283 Enhancement of photon emission rate in antenna-coupled nanoLEDs **2012**, 2

282 High optical quality polycrystalline indium phosphide grown on metal substrates by metalorganic chemical vapor deposition. *Journal of Applied Physics*, **2012**, 111, 123112 2.5 17

281 In Situ Raman Spectroscopy of COOH-Functionalized SWCNTs Trapped with Optoelectronic Tweezers. *Advances in OptoElectronics*, **2012**, 2012, 1-4 0.5 4

280 Contact printing of compositionally graded CdS(x)Se(1-x) nanowire parallel arrays for tunable photodetectors. *Nanotechnology*, **2012**, 23, 045201 3.4 54

279 Low loss hollow-core waveguide on a silicon substrate. *Nanophotonics*, **2012**, 1, 23-29 6.3 26

278 Efficient Rate Enhancement of Spontaneous Emission in a Semiconductor nanoLED **2012**, 1

277 Linear phase-and-frequency-modulated photonic links using optical discriminators. *Optics Express*, **2012**, 20, 26292-8 3.3 16

276 Enhancement of the Purcell effect for colloidal CdSe/ZnS quantum dots coupled to silver nanowires by a metallic tip. *Applied Physics Letters*, **2012**, 100, 253110 3.4 3

275 Spontaneous emission rate enhancement using gold nanorods **2012**, 2

274 Electrothermally Actuated Lens Scanner and Latching Brake for Free-Space Board-to-Board Optical Interconnects. *Journal of Microelectromechanical Systems*, **2012**, 21, 1107-1116 2.5 7

273 Optical MEMS and Nanophotonics **2012**, 353-414 1

272 Nano-Photonics and Opto-Fluidics on Bio-Sensing **2011**, 151-176

271	Radiation engineering of optical antennas for maximum field enhancement. <i>Nano Letters</i> , 2011 , 11, 2606-10	1.9	129
270	Low friction liquid bearing mems micromotor 2011 ,		5
269	Plasmonic crystal defect nanolaser. <i>Optics Express</i> , 2011 , 19, 18237-45	3.3	86
268	Efficient waveguide-coupling of metal-clad nanolaser cavities. <i>Optics Express</i> , 2011 , 19, 23504-12	3.3	36
267	Angle-independent plasmonic infrared band-stop reflective filter based on the Ag/SiO ₂ /Ag T-shaped array. <i>Optics Letters</i> , 2011 , 36, 1440-2	3	23
266	A unified platform for optoelectrowetting and optoelectronic tweezers. <i>Lab on A Chip</i> , 2011 , 11, 1292-7	7.2	33
265	Microenvironmental geometry guides platelet adhesion and spreading: a quantitative analysis at the single cell level. <i>PLoS ONE</i> , 2011 , 6, e26437	3.7	38
264	Rationally Designed, Three-Dimensional Carbon Nanotube Back-Contacts for Efficient Solar Devices. <i>Advanced Energy Materials</i> , 2011 , 1, 1040-1045	21.8	22
263	Optical antenna based nanoLED 2011 ,		1
262	Optically- and thermally-responsive programmable materials based on carbon nanotube-hydrogel polymer composites. <i>Nano Letters</i> , 2011 , 11, 3239-44	11.5	411
261	Roll-to-roll anodization and etching of aluminum foils for high-throughput surface nanotexturing. <i>Nano Letters</i> , 2011 , 11, 3425-30	11.5	49
260	Lasing in subwavelength semiconductor nanopatches. <i>Semiconductor Science and Technology</i> , 2011 , 26, 014013	1.8	10
259	Double-Resonant Enhancement of Surface Enhanced Raman Scattering Using High Contrast Grating Resonators 2011 ,		1
258	Novel Three-dimensional Hollow-core Waveguide Using High-contrast Sub-wavelength Grating 2011 ,		1
257	Platelet Sensing of Microenviornmental Geometry Guides Adhesion and Spreading: A Quantitative Study At the Single-Cell Level. <i>Blood</i> , 2011 , 118, 2192-2192	2.2	
256	Lasing in a one-dimensional plasmonic crystal 2010 ,		1
255	Quantifying heat transfer in DMD-based optoelectronic tweezers with infrared thermography 2010 ,		4
254	Shape-controlled synthesis of single-crystalline nanopillar arrays by template-assisted vapor-liquid-solid process. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13972-4	16.4	28

253	A noninvasive, motility independent, sperm sorting method and technology to identify and retrieve individual viable nonmotile sperm for intracytoplasmic sperm injection. <i>Journal of Urology</i> , 2010 , 184, 2466-72	2.5	16
252	Ordered arrays of dual-diameter nanopillars for maximized optical absorption. <i>Nano Letters</i> , 2010 , 10, 3823-7	11.5	249
251	Black Ge based on crystalline/amorphous core/shell nanoneedle arrays. <i>Nano Letters</i> , 2010 , 10, 520-3	11.5	65
250	Subwavelength metal-optic semiconductor nanopatch lasers. <i>Optics Express</i> , 2010 , 18, 8790-9	3.3	174
249	Thermo-sensitive microgels as in-situ sensor for temperature measurement in optoelectronic tweezers 2010 ,		2
248	Light-actuated digital microfluidics for large-scale, parallel manipulation of arbitrarily sized droplets 2010 ,		14
247	Rotational optical alignment for array based free space board-to-board optical interconnect with zero power hold 2010 ,		3
246	Optoelectronic Tweezers for quantitative assessment of embryo developmental stage 2010 ,		1
245	Phototransistor-based optoelectronic tweezers for dynamic cell manipulation in cell culture media. <i>Lab on A Chip</i> , 2010 , 10, 165-72	7.2	91
244	Motile and non-motile sperm diagnostic manipulation using optoelectronic tweezers. <i>Lab on A Chip</i> , 2010 , 10, 3213-7	7.2	51
243	Characterization of a MEMS Based Optical System for Free-Space Board-to-Board Optical Interconnects 2010 ,		2
242	Tourist behaviors in wetland park: A preliminary study in Xixi National Wetland Park, Hangzhou, China. <i>Chinese Geographical Science</i> , 2010 , 20, 66-73	2.9	15
241	Preimplantation mouse embryo selection guided by light-induced dielectrophoresis. <i>PLoS ONE</i> , 2010 , 5, e10160	3.7	28
240	Rapid Droplet Mixing Using Light-Actuated Digital Microfluidics 2010 ,		1
239	MEMS-Tuned Microresonators. <i>Springer Series in Optical Sciences</i> , 2010 , 459-483	0.5	
238	Parallel trapping of multiwalled carbon nanotubes with optoelectronic tweezers. <i>Applied Physics Letters</i> , 2009 , 95, 113104	3.4	40
237	Metallic Nanoparticle Manipulation using Optoelectronic Tweezers 2009 ,		4
236	Experimental characterization of two-axis MEMS scanners with hidden radial vertical combdrive actuators and cross-bar spring structures. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 045002	2	3

235	Room temperature continuous wave operation and characterization of photonic crystal nanolaser on a sapphire substrate. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 105113	3	4
234	Optoelectronic Oscillators Using Direct-Modulated Semiconductor Lasers Under Strong Optical Injection. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009 , 15, 572-577	3.8	42
233	Enhanced Modulation Characteristics of Optical Injection-Locked Lasers: A Tutorial. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009 , 15, 618-633	3.8	154
232	Heterogeneous integration of InGaAsP microdisk laser on a silicon platform using optofluidic assembly. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 95, 967-972	2.6	22
231	Robust free space board-to-board optical interconnect with closed loop MEMS tracking. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 95, 973-982	2.6	14
230	Three-dimensional nanopillar-array photovoltaics on low-cost and flexible substrates. <i>Nature Materials</i> , 2009 , 8, 648-53	27	909
229	The influence of interface roughness on the normal incident absorption of quantum-well infrared photodetectors. <i>Thin Solid Films</i> , 2009 , 517, 1799-1802	2.2	3
228	Bandwidth-tunable add-drop filters based on micro-electro-mechanical-system actuated silicon microtoroidal resonators. <i>Optics Letters</i> , 2009 , 34, 2557-9	3	35
227	Compact optical curvature sensor with a flexible microdisk laser on a polymer substrate. <i>Optics Letters</i> , 2009 , 34, 2733-5	3	16
226	. <i>Journal of Lightwave Technology</i> , 2009 , 27, 5552-5562	4	35
225	Flexible compact microdisk lasers on a polydimethylsiloxane (PDMS) substrate. <i>Optics Express</i> , 2009 , 17, 991-6	3.3	12
224	Trap profiles of projector based optoelectronic tweezers (OET) with HeLa cells. <i>Optics Express</i> , 2009 , 17, 5232-9	3.3	37
223	Enhanced modulation bandwidth of nanocavity light emitting devices. <i>Optics Express</i> , 2009 , 17, 7790-9	3.3	101
222	NanoPen: dynamic, low-power, and light-actuated patterning of nanoparticles. <i>Nano Letters</i> , 2009 , 9, 2921-5	11.5	81
221	Parallel single-cell light-induced electroporation and dielectrophoretic manipulation. <i>Lab on A Chip</i> , 2009 , 9, 1714-20	7.2	80
220	EWOD-driven droplet microfluidic device integrated with optoelectronic tweezers as an automated platform for cellular isolation and analysis. <i>Lab on A Chip</i> , 2009 , 9, 1732-9	7.2	123
219	Antifouling coatings for optoelectronic tweezers. <i>Lab on A Chip</i> , 2009 , 9, 2952-7	7.2	17
218	Optoelectronic tweezers as a tool for parallel single-cell manipulation and stimulation. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2009 , 3, 424-31	5.1	17

217	Dynamic manipulation and separation of individual semiconducting and metallic nanowires. <i>Nature Photonics</i> , 2008 , 2, 86-89	33.9	200
216	Bandwidth Enhancement by Master Modulation of Optical Injection-Locked Lasers. <i>Journal of Lightwave Technology</i> , 2008 , 26, 2584-2593	4	31
215	Amplitude Modulation Response and Linearity Improvement of Directly Modulated Lasers Using Ultra-Strong Injection-Locked Gain-Lever Distributed Bragg Reflector Lasers. <i>Journal of the Optical Society of Korea</i> , 2008 , 12, 303-308		4
214	Strong optical injection-locked semiconductor lasers demonstrating > 100-GHz resonance frequencies and 80-GHz intrinsic bandwidths. <i>Optics Express</i> , 2008 , 16, 6609-18	3.3	123
213	. <i>IEEE Journal of Quantum Electronics</i> , 2008 , 44, 90-99	2	89
212	Parallel assembly of nanowires using lateral-field optoelectronic tweezers 2008 ,		6
211	Operational Regimes and Physics Present in Optoelectronic Tweezers. <i>Journal of Microelectromechanical Systems</i> , 2008 , 17, 342-350	2.5	89
210	Droplet Manipulation With Light on Optoelectrowetting Device. <i>Journal of Microelectromechanical Systems</i> , 2008 , 17, 133-138	2.5	69
209	Light-Actuated AC Electroosmosis for Nanoparticle Manipulation. <i>Journal of Microelectromechanical Systems</i> , 2008 , 17, 525-531	2.5	77
208	Linearization of a two-axis MEMS scanner driven by vertical comb-drive actuators. <i>Journal of Micromechanics and Microengineering</i> , 2008 , 18, 015015	2	19
207	Adjustable Chirp Injection-Locked 1.55- μ m VCSELs for Enhanced Chromatic Dispersion Compensation at 10-Gbit/s 2008 ,		3
206	Suppressing ability of germanium preamorphisation thicknesses combined with sub-keV boron implantation for drive current improvement. <i>Electronics Letters</i> , 2008 , 44, 1093	1.1	
205	Two-axis MEMS scanners with radial vertical combdrive actuatorsDesign, theoretical analysis, and fabrication. <i>Journal of Optics</i> , 2008 , 10, 044006		17
204	High-Speed Modulation of Optical Injection-Locked Semiconductor Lasers 2008 ,		1
203	80-GHz intrinsic 3-dB bandwidth of directly modulated semiconductor lasers under optical injection locking 2008 ,		2
202	Continuous optoelectrowetting for picoliter droplet manipulation. <i>Applied Physics Letters</i> , 2008 , 93, 221110	3.10	76
201	Optofluidics and optoelectronic tweezers 2008 ,		5
200	107-GHz Resonance Frequency of 1.55- μ m VCSELs under ultra-high optical injection locking 2008 ,		1

199	Microelectromechanical systems for lightwave communication 2008 , 713-758		1
198	Hybrid microdisk laser on a silicon platform using lateral-field optoelectronic tweezers assembly 2008 ,		1
197	Optical Single Sideband Modulation Using Strong Optical Injection-Locked Semiconductor Lasers. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1005-1007	2.2	70
196	Experimental Demonstration of Dynamic Bandwidth Allocation Using a MEMS-Actuated Bandwidth-Tunable Microdisk Resonator Filter. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1508-1510	2.2	9
195	Optically Controlled Cell Discrimination and Trapping Using Optoelectronic Tweezers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007 , 13, 235-243	3.8	73
194	Silicon Microtoroidal Resonators With Integrated MEMS Tunable Coupler. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007 , 13, 202-208	3.8	60
193	A Scientific Methodology for Investigation of a Lithium Ion Battery Failure 2007 ,		8
192	Bandwidth-Tunable Add-Drop Filters Based on MEMS-Actuated Single-Crystalline Silicon Microtoroidal Resonators 2007 ,		2
191	Optically Injection-Locked Optoelectronic Oscillators with Low RF Threshold Gain 2007 ,		6
190	Optical Properties and Modulation Characteristics of Ultra-Strong Injection-Locked Distributed Feedback Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007 , 13, 1215-1221	3.8	21
189	LCD Display Strength: Why Edge Preparation Matters 2007 ,		4
188	Optically actuated thermocapillary movement of gas bubbles on an absorbing substrate. <i>Applied Physics Letters</i> , 2007 , nihpa130823	3.4	56
187	A Two-Axis MEMS Scanner Driven by Radial Vertical Combdrive Actuators 2007 ,		1
186	Silicon Microresonators with MEMS-Actuated Tunable Couplers 2007 ,		1
185	Trapping and Transport of Silicon Nanowires Using Lateral-Field Optoelectronic Tweezers 2007 ,		6
184	Low-Loss Silicon Wire Waveguides with 3-D Tapered Couplers Fabricated by Self Profile Transformation 2007 ,		1
183	Scaling of resonance frequency for strong injection-locked lasers. <i>Optics Letters</i> , 2007 , 32, 3373-5	3	17
182	Two-axis MEMS Scanning Catheter for Ultrahigh Resolution Three-dimensional and En Face Imaging. <i>Optics Express</i> , 2007 , 15, 2445-53	3.3	102

181	Novel cascaded injection-locked 1.55- μm VCSELs with 66 GHz modulation bandwidth. <i>Optics Express</i> , 2007 , 15, 14810-6	3.3	45
180	Analysis of the interchannel response in a MEMS 1 x N(2) wavelength-selective switch. <i>Applied Optics</i> , 2007 , 46, 3227-32	1.7	7
179	Dynamic Cell and Microparticle Control via Optoelectronic Tweezers. <i>Journal of Microelectromechanical Systems</i> , 2007 , 16, 491-499	2.5	109
178	Optoelectronic Oscillator Using Injection-Locked VCSELs. <i>Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS</i> , 2007 ,		4
177	Semiconductor nanowire manipulation using optoelectronic tweezers 2007 ,		2
176	Bandwidth Enhancement by Optical Amplitude and Phase Modulation of Injection-Locked Semiconductor Lasers 2007 ,		4
175	Free-Space Optical MEMS 2006 , 345-402		
174	. <i>Journal of Microelectromechanical Systems</i> , 2006 , 15, 338-343	2.5	133
173	Errata to "Gimbal-Less MEMS Two-Axis Optical Scanner Array With High Fill-Factor" <i>Journal of Microelectromechanical Systems</i> , 2006 , 15, 273-273	2.5	
172	Error-free data transmission through a tunable-bandwidth filter based on a MEMS-actuated microdisk resonator 2006 ,		2
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2	High-Power Distributed Photodetectors for RF Photonic Applications67-83		

1	Microvison-activated automatic optical manipulator for microscopic particles [microvison read microvision]	1
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