

Diaa Khalil

List of Publications by Year in descending order

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311
papers

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304743

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g-index

313
all docs

313
docs citations

313
times ranked

1229
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of metallic slotted micromirrors using modal decomposition and multiple reflections. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 586.	2.1	0
2	Direct Absorption and Photoacoustic Spectroscopy for Gas Sensing and Analysis: A Critical Review. Laser and Photonics Reviews, 2022, 16, .	8.7	25
3	High sensitivity refractive index sensing using zone plate metasurfaces with a conical phase profile. Scientific Reports, 2022, 12, .	3.3	2
4	Infrared Absorbance of Distributed-Size HgTe Quantum Dots Under Diffuse Reflectance. , 2022, , .		0
5	Critical analysis of in-plane free-space light beam coupling using photonic curved micromirrors. Journal of Optical Microsystems, 2022, 2, .	1.5	1
6	Optical phase shifter design for single and multi-mode waveguide configurations. Optical and Quantum Electronics, 2022, 54, .	3.3	0
7	MEMS FTIR Parallel Spectrometer for Non-Invasive Skin Biochemistry Analysis. , 2021, , .		2
8	Physical Parameter Extraction and Modeling of Metallized Deeply-Etched Vertical Mirrors. Journal of Microelectromechanical Systems, 2021, 30, 930-938.	2.5	2
9	Single MEMS Chip Enabling Dual Spectralâ€Range Infrared Microâ€Spectrometer with Optimal Detectors. Advanced Materials Technologies, 2021, 6, 2001013.	5.8	3
10	MEMS-based polarized FTIR spectrometer for polymer quality control. , 2021, , .		0
11	High collection uniformity three-dimensional V-trough concentrators. , 2021, , .		1
12	Wide-angle wide-spectral range IMI plasmonic MEMS mirror in the MIR for spectroscopic gas sensing applications. , 2021, , .		0
13	Differential Optical Spectrometer Based on Critical Angle Dispersion. Journal of Lightwave Technology, 2021, 39, 2911-2916.	4.6	1
14	Modeling of Fabry-Perot Micro Cavities Under Partial Spatial Coherence Illumination Using Multimode Optical Fibers. Journal of Lightwave Technology, 2021, 39, 4424-4430.	4.6	2
15	Optical Fiber Filters Linewidth Enhancement Based on Erbium-doped Photonic Crystal Fiber Cavities. , 2021, , .		0
16	Characteristics of a refractometer based on Michelson interferometer integrated with a Fabry-Perot interferometer. Optik, 2021, 242, 167170.	2.9	2
17	Complex Kernel-based spectrum reconstruction algorithm for cascaded Fabryâ€™Perot interferometric spectrometer. Applied Optics, 2021, 60, 8999.	1.8	2
18	Ultra-Compact Fourier Transform Near-Infrared MEMS Spectral Sensor for Smart Industry and IoT. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-9.	2.9	10

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19	Modelling of ATR-FTIR MEMS Spectrometer Under Partially-Coherent Multimode-Fiber Illumination. Journal of Lightwave Technology, 2021, 39, 7092-7098.	4.6	2
20	Spatiotemporal dynamics of nanowire growth in a microfluidic reactor. Microsystems and Nanoengineering, 2021, 7, 77.	7.0	4
21	Subthreshold Spectral Bi-Modality of Double Layer InP/AlGaInP Quantum Dot Laser. , 2021, , .		1
22	Micro-Electro-Mechanical System Fourier Transform Infrared (MEMS FT-IR) Spectrometer Under Modulated Pulsed Light Source Excitation. Applied Spectroscopy, 2020, 74, 799-807.	2.2	5
23	Silicon Multi-Pass Gas Cell for Chip-Scale Gas Analysis by Absorption Spectroscopy. Micromachines, 2020, 11, 463.	2.9	3
24	Kinetics Study and Online Monitoring of in-Situ Growth of Zinc-Oxide Nanowire Arrays Within Microfluidic Chambers. , 2020, , .		1
25	Design of a 2D fiber mode converter using a planar 2D multi-mode interference structure. Optik, 2020, 210, 164500.	2.9	4
26	Visible Laser on Silicon Optofluidic Microcavity. Advanced Materials Technologies, 2020, 5, 1901132.	5.8	6
27	On-chip parallel Fourier transform spectrometer for broadband selective infrared spectral sensing. Microsystems and Nanoengineering, 2020, 6, 10.	7.0	31
28	Continuous Monitoring of Air Purification: A Study on Volatile Organic Compounds in a Gas Cell. Sensors, 2020, 20, 934.	3.8	12
29	Sensitivity Enhancement Factor for Gain-Assisted Cavity Enhanced Spectroscopy. IEEE Journal of Quantum Electronics, 2020, 56, 1-8.	1.9	1
30	Mid Infrared Optical Gas Sensor Using Plasmonic Mach-Zehnder Interferometer. Scientific Reports, 2020, 10, 1293.	3.3	59
31	Multi-walled carbon nanotubes based near-infrared radiation source. , 2020, , .		1
32	Comprehensive study on the parameters affecting the line-width and stability of SOA-based SLM random fiber laser. , 2020, , .		1
33	Attenuated total reflection (ATR) MEMS FTIR spectrometer. , 2020, , .		2
34	Modeling and characterization of the reflectance of vertical metal-coated micromirrors in deeply-etched optical benches. , 2020, , .		1
35	Compressive sensing MEMS FTIR spectrometer. , 2020, , .		0
36	Waveguides sensitivity analysis for mid-infrared gas sensing. , 2020, , .		0

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37	High sensitivity refractive index sensing using an axicon lens structure. , 2020, , .		0
38	Mid-infrared radiation source for spectroscopic applications based on multiwalled carbon nanotubes on top of silicon. , 2020, , .		1
39	Silicon based integrated hollow waveguide for gas sensing applications. , 2020, , .		0
40	FTIR AND UV IN STEEL PIPELINE COATING APPLICATION. International Journal of GEOMATE, 2020, 18, .	0.3	1
41	Semi-Analytical Effective Layer Model for the Skin in the SWIR Spectral Range. , 2020, , .		1
42	Suspended silicon waveguide for mid-infrared gas sensing. , 2020, , .		0
43	Real-time optical monitoring of zinc-oxide nanowires in-situ growth within a microfluidic chamber. , 2020, , .		1
44	Beam finite spot size effect on angle-tolerant optical filters. , 2020, , .		0
45	Combined MEMS spectrometer based on Michelson interferometer and tunable filter for wideband selective operation. , 2020, , .		1
46	Absorptivity enhancement of black silicon using electroless Cu plating. , 2020, , .		0
47	Simple and low-cost method for particulate matter size determination based on far-field interference pattern image processing. , 2020, , .		0
48	NIR optical properties of SWCNTs based on ab-initio calculations and the transfer matrix method. , 2020, , .		1
49	Spectral background removal of MEMS FTIR spectrometer-based gas analyzer. , 2020, , .		0
50	Cavity enhanced spectroscopy using multi-longitudinal mode laser RF beating. , 2020, , .		1
51	Parameter extraction of silicon photonic devices using optical coherence tomography. , 2020, , .		0
52	Enhanced resolution MEMS spectrometer based on FTIR technique combined with reflection-type etalon. , 2020, , .		0
53	Plastic sorting based on MEMS FTIR spectral chemometrics sensing. , 2020, , .		1
54	All-Silicon Double-Cavity Fourier Transform Infrared Spectrometer On-Chip. Advanced Materials Technologies, 2019, 4, 1900441.	5.8	28

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55	Spectroscopic Gas Sensing Based on a MEMS-SOA Swept Fiber Laser Source. Journal of Lightwave Technology, 2019, 37, 5354-5360.	4.6	10
56	Corrections to "Toward On-Chip MEMS-Based Optical Autocorrelator" [Oct 18 5003-5009]. Journal of Lightwave Technology, 2019, 37, 3432-3432.	4.6	0
57	Performance Improvement of White LED-Based VLC Systems Using Blue and Flattening Filters. , 2019, , .		3
58	On the Detection of Volatile Organic Compounds (VOCs) Using Machine Learning and FTIR Spectroscopy for Air Quality Monitoring. , 2019, , .		3
59	Combining MEMS FTIR Spectrometer and Widened-Spectrum Mode-Locked Fiber Laser for Gas-Sensing. , 2019, , .		2
60	NIR and MIR Absorption of Ultra-Black Silicon (UBS). Application to High Emissivity, All-Silicon, Light Source. , 2019, , .		3
61	Gas Detection using a MEMS-Based Swept Laser Source. , 2019, , .		0
62	Mid Infrared Integrated MZI Gas Sensor Using Suspended Silicon Waveguide. Journal of Lightwave Technology, 2019, 37, 4394-4400.	4.6	21
63	On-Chip Parallel Architecture Mems FTIR Spectrometers Enabling High Spectral Resolution for Environmental Gas Analysis. , 2019, , .		0
64	Capturing the Instantaneous Spectral Response of a MEMS Swept Laser Source Using a Quasi-Static Tunable Filter. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-8.	2.9	3
65	Micro-Machined Heater Designed for Miniaturized Thermal IR Sources. , 2019, , .		1
66	Compact Adiabatic Taper for SOI Waveguide. , 2019, , .		0
67	Silicon photonic coupled-ring resonator in nested configuration comprising different length scales. , 2019, , .		3
68	Highly Doped Semiconductor Plasmonic Nanoantenna for Biomedical Sensing. , 2019, , .		0
69	Incoherent Gain-Assisted Ring Enhanced Gas Absorption Spectroscopy. IEEE Journal of Quantum Electronics, 2019, 55, 1-8.	1.9	8
70	Optimization of silicon on silica waveguides for mid-infrared applications at 4.28 um. , 2019, , .		3
71	MEMS FTIR optical spectrometer enables detection of volatile organic compounds (VOCs) in part-per-billion (ppb) range for air quality monitoring. , 2019, , .		6
72	Ultra wide band MIR MEMS FTIR spectrometer. , 2019, , .		4

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73	Silicon photonics dual-coupler nested coupled cavities. , 2019, , .		5
74	Odd excitation of symmetric multimode interference structures. Applied Optics, 2019, 58, 3836.	1.8	1
75	Modal analysis of TE and TM excitations in a metallic slotted micromirror. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 610.	2.1	4
76	Modeling and characterization of a dual-wavelength SOA-based single longitudinal mode random fiber laser with tunable separation. OSA Continuum, 2019, 2, 358.	1.8	13
77	MEMS swept laser source with enhanced performance. , 2019, , .		0
78	Crosstalk analysis in asymmetric directional coupler for MDM application. , 2019, , .		0
79	Active fiber-ring enhanced absorption gas spectroscopy using multi-longitudinal mode tunable laser in the NIR. , 2019, , .		2
80	Planar asymmetric nano-resonators for highly angle tolerant trans-reflective color filters. OSA Continuum, 2019, 2, 890.	1.8	3
81	Autoregressive superresolution microelectromechanical systems Fourier transform spectrometer. Applied Optics, 2019, 58, 6784.	1.8	3
82	Strip Waveguide Enabling Low Loss for Silicon on Silica Technology in the MIR. , 2018, , .		3
83	Enhancement of Modulation Bandwidth in Wide-Angle VLC Systems via Response-Flattening Filters. , 2018, , .		1
84	Transformation algorithm and analysis of the Fourier transform spectrometer based on cascaded Fabry-Pérot interferometers. Applied Optics, 2018, 57, 7225.	1.8	11
85	Toward On-Chip MEMS-Based Optical Autocorrelator. Journal of Lightwave Technology, 2018, 36, 5003-5009.	4.6	2
86	Optical modeling of black silicon using an effective medium/multi-layer approach. Optics Express, 2018, 26, 13443.	3.4	29
87	In-plane coupled Fabry-Pérot micro-cavities based on Si-air Bragg mirrors: a theoretical and practical study. Applied Optics, 2018, 57, 5112.	1.8	13
88	Transmission-enabled fiber Fabry-Pérot cavity based on a deeply etched slotted micromirror. Applied Optics, 2018, 57, 4610.	1.8	6
89	Near-infrared optical MEMS spectrometer-based quantification of fat concentration in milk. , 2018, , .		2
90	Omnidirectional optical MEMS scanner based on two degrees-of-freedom translation of acylindrical micromirrors. , 2018, , .		0

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91	Long travel range thermal actuator for deeply etched MEMS components. , 2018, , .		0
92	Optical MEMS-scale multipass white cell for onchip gas sensing. , 2018, , .		3
93	Narrow line width dual wavelength EDFA based random fiber laser. , 2018, , .		1
94	Experimental Access to the Instantaneous Spectrum of MEMS-Based Swept Source. , 2018, , .		1
95	Optical MEMS notch filter based on the multi-mode interference in a butterfly metallic waveguide. , 2018, , .		0
96	MEMS FTIR spectrometer with enhanced resolution for low cost gas sensing in the NIR. , 2018, , .		4
97	Ring-patterned plasmonic photonic crystal thermal light source for miniaturized near-infrared spectrometers. , 2018, , .		1
98	Mode converter using 2D MMI. , 2018, , .		2
99	Narrow line width dual wavelength semiconductor optical amplifier based random fiber laser. , 2018, , .		1
100	Dual coupler coupled cavities optical gyroscope with enhanced performance. , 2018, , .		2
101	Modeling of the emissivity of super-wavelength black silicon in the geometrical optics regime. , 2018, , .		0
102	Mid-infrared plasmonic gas sensor. , 2018, , .		1
103	Vernier effect-based multiplication of the Sagnac beating frequency in ring laser gyroscope sensors. , 2018, , .		0
104	MEMS-based Fourier transform spectrometer using pulsed infrared light source. , 2018, , .		2
105	MEMS tunable-finesse slotted micromirror resonator. , 2018, , .		1
106	Impact of blue filtering on effective modulation bandwidth and wide-angle operation in white LED-based VLC systems. OSA Continuum, 2018, 1, 910.	1.8	2
107	Tunable and non-reciprocal dual-wavelength SOA-fiber ring laser. , 2017, , .		1
108	Environmental mid-infrared gas sensing using MEMS FTIR spectrometer. , 2017, , .		5

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109	Multi-segment tapered optical mirror for MEMS LiDAR application. , 2017, , .		2
110	Ring mirror fiber laser gyroscope. , 2017, , .		0
111	Characterization and modelling of multimode optical fiber for MOEMS applications using the elementary source method. Proceedings of SPIE, 2017, , .	0.8	0
112	Narrow line width semiconductor optical amplifier based random laser. Proceedings of SPIE, 2017, , .	0.8	2
113	Ultra-compact MEMS FTIR spectrometer. Proceedings of SPIE, 2017, , .	0.8	14
114	A method for determining the direction of rotation in ring laser gyroscope based on fiber ring cavity and semiconductor optical amplifier. Proceedings of SPIE, 2017, , .	0.8	0
115	Gain-assisted broadband ring cavity enhanced spectroscopy. Proceedings of SPIE, 2017, , .	0.8	5
116	Theoretical and experimental analysis of the fabrication tolerance on deeply etched silicon/air Bragg micromirrors. , 2017, , .		3
117	Multimode spot-size converter for optical MEMS applications. , 2017, , .		1
118	Distortion of Gaussian beams reflected off-axis on curved mirrors in the MEMS scale. , 2017, , .		0
119	Dual wavelength SOA based fiber ring laser. Proceedings of SPIE, 2017, , .	0.8	2
120	Quasi-homogeneous partial coherent source modeling of multimode optical fiber output using the elementary source method. Journal of Optics (United Kingdom), 2017, 19, 105605.	2.2	5
121	Optical characterization of high speed microscanners based on static slit profiling method. Optics and Lasers in Engineering, 2017, 88, 129-138.	3.8	2
122	Overcoming the near-infra-red spectral range limit with Fabry-Perot silicon microcavity enabled by slotted micromirrors. , 2017, , .		3
123	Angle-tolerant hybrid plasmonic filters for visible light communications. Applied Optics, 2017, 56, C106.	2.1	10
124	Deeply-Etched MEMS Slotted Micromirrors With Controlled Transmittance. IEEE Journal of Quantum Electronics, 2017, 53, 1-8.	1.9	8
125	Numerical estimation of dispersion effect in deeply-etched fully integrated MEMS Mach-Zhender interferometer. , 2017, , .		0
126	Planar broad-band and wide-angle hybrid plasmonic IMI filters with induced transmission for visible light applications. Applied Optics, 2017, 56, 8751.	1.8	7

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127	Single-longitudinal-mode broadband tunable random laser. Optics Letters, 2017, 42, 3247.	3.3	27
128	In-Plane Optical Beam Collimation Using a Three-Dimensional Curved MEMS Mirror. Micromachines, 2017, 8, 134.	2.9	8
129	Analysis of dual coupler nested coupled cavities. Applied Optics, 2017, 56, 9457.	1.8	10
130	Hierarchical Precoding in a Realistic Ultradense Heterogeneous Environment Exceeding the Degrees of Freedom. International Journal of Antennas and Propagation, 2016, 2016, 1-11.	1.2	1
131	Electrostatic Comb-Drive Actuator with High In-Plane Translational Velocity. Micromachines, 2016, 7, 188.	2.9	9
132	Fourier transform spectrometer based on Fabry-Pérot interferometer. Applied Optics, 2016, 55, 5322.	2.1	11
133	Optical filter finesses enhancement based on nested coupled cavities and active medium. , 2016, , .		5
134	Ring laser gyroscope based on standard single-mode fiber and semiconductor optical amplifier. , 2016, , .		5
135	On-Chip Micro-Electro-Mechanical System Fourier Transform Infrared (MEMS FT-IR) Spectrometer-Based Gas Sensing. Applied Spectroscopy, 2016, 70, 897-904.	2.2	105
136	On the environmental gas sensing using MEMS FTIR spectrometer in the near-infrared region. , 2016, , .		7
137	Mid infrared MEMS FTIR spectrometer. Proceedings of SPIE, 2016, , .	0.8	8
138	Beating signal power level improvement in ring lasers based on coupled ring resonators. , 2016, , .		2
139	In-plane monolithic microscanner with two synchronized, self-aligned flat mirrors and compliant springs. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2016, 15, 015501.	0.9	3
140	A compact polarization beam splitter based on an array of rectangular waveguides. Optical and Quantum Electronics, 2016, 48, 1.	3.3	0
141	Compact Si photonic multimode interference-based optical circuit for mode division multiplexing applications. Optical Engineering, 2016, 55, 076102.	1.0	7
142	Optical diffuse reflectance of Black Silicon and its isotropicity. , 2016, , .		2
143	Millimeter-wave small-cells traffic off-loading with large-scale antenna arrays for UDN. , 2016, , .		0
144	In-Line Optical MEMS Phase Modulator and Application in Ring Laser Frequency Modulation. IEEE Journal of Quantum Electronics, 2016, 52, 1-8.	1.9	12

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145	Characterization technique for long optical fiber cavities based on beating spectrum of multi-longitudinal mode fiber laser and beating spectrum in the RF domain. , 2016, , .		1
146	Deeply-etched micromirror with vertical slit and metallic coating enabling transmission-type optical MEMS filters. Proceedings of SPIE, 2016, , .	0.8	4
147	Novel Fourier transform infrared spectrometer architecture based on cascaded Fabry-Perot interferometers. Proceedings of SPIE, 2016, , .	0.8	16
148	Black silicon-based infrared radiation source. Proceedings of SPIE, 2016, , .	0.8	4
149	Wideband Optical MEMS Interferometer Enabled by Multimode Interference Waveguides. Journal of Lightwave Technology, 2016, 34, 2145-2151.	4.6	25
150	Box-like filter response using multimode single-ring microresonators. Applied Optics, 2016, 55, 408.	2.1	1
151	Parameter Extraction of Wide Band SOA Targeting Rapidly Swept Source Sensing Applications. , 2016, , .		1
152	Spatial interference management with hierarchical precoding in ultra-dense heterogeneous networks. , 2015, , .		4
153	In-plane deeply-etched optical MEMS notch filter with high-speed tunability. Journal of Optics (United Tj ETQq1 1 0,784314 rgBT /Over	2.2	25
154	Proposed static timing analysis framework for extracted 3D integrated circuits (3D-STA). , 2015, , .		0
155	Thermal stability of multi-longitudinal mode laser beating frequencies in hybrid semiconductor-fiber ring lasers. Proceedings of SPIE, 2015, , .	0.8	3
156	Design of an InGaAsP/InP compact integrated optical depolarizer. Applied Optics, 2015, 54, 9017.	2.1	2
157	Curved Silicon Micromirror for Linear Displacement-to-Angle Conversion With Uniform Spot Size. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 165-173.	2.9	23
158	Wideband Subwavelength Deeply Etched Multilayer Silicon Mirrors for Tunable Optical Filters and SS-OCT Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 157-164.	2.9	35
159	Monolithic silicon micromachined free-space optical interferometers onchip. Laser and Photonics Reviews, 2015, 9, 1-24.	8.7	81
160	Volume refractometry of liquids using stable optofluidic Fabry-Perot resonator with curved surfaces. , 2015, , .		1
161	MEMS-based frequency modulation of fiber ring laser. , 2015, , .		0
162	Accessing Rapidly Scanning Swept Laser Source Instantaneous Spectral Width Using a Multimode Rate Equation Model. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 714-721.	2.9	5

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163	Energy efficient design of DVB-T2 constellation demapper. , 2015, , .		0
164	Fiber-coupled Fabry-Pérot notch filter combining in-plane axis, high speed MEMS tunability and large etching depth. Proceedings of SPIE, 2015, , .	0.8	1
165	Multimode waveguide spot size width converter for silicon photonics applications. Optical Engineering, 2015, 54, 037103.	1.0	5
166	Volume refractometry of liquids using stable optofluidic Fabry-Pérot resonator with curved surfaces. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2015, 14, 045501.	0.9	5
167	Study of dual-source Fourier-domain optical coherence tomography. Optical Engineering, 2015, 54, 104112.	1.0	3
168	Diffraction grating polarization beam splitter using nano optical slits. Optical and Quantum Electronics, 2015, 47, 3837-3845.	3.3	2
169	Bidirectional single-longitudinal mode SOA-fiber ring laser based on optical filter assisted gain starvation. Proceedings of SPIE, 2015, , .	0.8	1
170	D1. High frequency in-plane MEMS actuator. , 2015, , .		0
171	D3. Optical coupling of cylindrical micromirrors in micro-optical benches. , 2015, , .		2
172	D5. Design of InGaAsP/InP compact integrated lyot depolarizer. , 2015, , .		0
173	Design optimization of linearly DC controlled staggered vertical comb drive actuators. Microsystem Technologies, 2015, 21, 85-90.	2.0	2
174	Robust energy harvesting aware clustering with fuzzy petri net reasoning algorithm. , 2014, , .		3
175	Dispersion compensation in Fourier domain optical coherence tomography. Applied Optics, 2014, 53, 6643.	1.8	10
176	MEMS corner-cube transmission-type optical phase modulator in DRIE technology. , 2014, , .		2
177	Dual-fiber OCT measurements. Proceedings of SPIE, 2014, , .	0.8	3
178	On the resonance frequency of an integrated optical ring resonator with low radius of curvature. Proceedings of SPIE, 2014, , .	0.8	0
179	MEMS optical tunable filter based on free-standing subwavelength silicon layers. Proceedings of SPIE, 2014, , .	0.8	3
180	Performance evaluation of a metal-insulator-metal surface plasmon resonance optical gas sensor under the effect of Gaussian beams. Applied Optics, 2014, 53, 2515.	1.8	7

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181	Inclination-independent transformation of light beams using high-throughput uniquely-curved micromirrors. , 2014, , .		4
182	In-plane comb-drive actuator with high frequency-displacement product for micro-optical bench applications. , 2014, , .		4
183	MMI-based MOEMS FT spectrometer for visible and IR spectral ranges. , 2014, , .		4
184	High-throughput deeply-etched scanning Michelson interferometer on-chip. , 2014, , .		13
185	Multi-step etching of three-dimensional sub-millimeter curved silicon microstructures with in-plane principal axis. Microelectronic Engineering, 2014, 114, 78-84.	2.4	13
186	Resonance Wavelength of Integrated Optical Ring Resonator With Small Radius of Curvature. IEEE Photonics Technology Letters, 2014, 26, 641-644.	2.5	4
187	DNG versus SNG-based IR SPR optical CO ₂ sensor performance evaluation under Gaussian beam excitation. , 2014, , .		0
188	Deeply-etched 1 micron-thick silicon layers enabling 170-NM bandwidth highly-reflective Bragg mirrors. , 2014, , .		5
189	Network coding gain in device-to-device underlying primary communications. , 2014, , .		7
190	Intrinsic improvement of diffraction-limited resolution in optical MEMS fourier-transform spectrometers. , 2014, , .		10
191	Deeply-Etched Optical MEMS Tunable Filter for Swept Laser Source Applications. IEEE Photonics Technology Letters, 2014, 26, 37-39.	2.5	37
192	Three-dimensional collimation of in-plane-propagating light using silicon micromachined mirror. , 2014, , .		1
193	Propagation of Bessel beams generated using finite-width Durnin ring. Applied Optics, 2013, 52, 256.	1.8	21
194	In-plane diffraction loss free optical cavity using coated optical fiber and silicon micromachined spherical mirror. , 2013, , .		3
195	Wide steering angle microscanner based on curved surface. Proceedings of SPIE, 2013, , .	0.8	2
196	Integrated wide-angle scanner based on translating a curved mirror of acylindrical shape. Optics Express, 2013, 21, 13906.	3.4	39
197	In-plane external fiber Fabry-Perot cavity comprising silicon micromachined concave mirror. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2013, 13, 011110.	0.9	22
198	Silicon micromirrors with three-dimensional curvature enabling lensless efficient coupling of free-space light. Light: Science and Applications, 2013, 2, e94-e94.	16.6	46

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199	Modeling of subwavelength problems using modal techniques. <i>Optical Engineering</i> , 2012, 51, 038001.	1.0	0
200	Parameter extraction of MEMS comb-drive near-resonance equivalent circuit: physically-based technique for a unique solution. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2012, 11, 021205-1.	0.9	7
201	Prioritized Adaptive Modulation for MIMO-OFDM Using Pre-Ordered SIC. , 2012, , .		1
202	Signal-to-noise ratio calculation in a moving-optical-wedge spectrometer. <i>Applied Optics</i> , 2012, 51, 7206.	1.8	13
203	Linewidth of swept laser source. <i>Proceedings of SPIE</i> , 2012, , .	0.8	2
204	Effect of ring width on ring generated Bessel beam. , 2012, , .		1
205	Applying a modal technique on a planar lens based on nanoscale slit arrays. <i>Optical and Quantum Electronics</i> , 2012, 44, 623-633.	3.3	0
206	Fully Integrated Mach-Zehnder MEMS Interferometer With Two Complementary Outputs. <i>IEEE Journal of Quantum Electronics</i> , 2012, 48, 244-251.	1.9	42
207	Spot size effects in miniaturized moving-optical-wedge interferometer. <i>Applied Optics</i> , 2011, 50, 2671.	2.1	9
208	Simple method for measuring dispersion and spectral absorption of Si wafers for use in MEMS applications. , 2011, , .		0
209	Fabrication of optical filters using multilayered porous silicon. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1
210	Characterization of MEMS FTIR spectrometer. <i>Proceedings of SPIE</i> , 2011, , .	0.8	24
211	Design of CWDM multiplexers based on series coupled ring resonators: analysis, potential and prospects on MEMS fabrication technologies. <i>Microsystem Technologies</i> , 2010, 16, 1139-1156.	2.0	4
212	Miniaturized tunable integrated Mach-Zehnder MEMS interferometer for spectrometer applications. <i>Proceedings of SPIE</i> , 2010, , .	0.8	12
213	Refractive index change in porous silicon after detaching from the substrate. , 2010, , .		0
214	Diffraction effects in optical microelectromechanical system Michelson interferometers. <i>Applied Optics</i> , 2010, 49, 3960.	2.1	7
215	Modeling the field diffracted from photo mask at oblique incidence. <i>Applied Optics</i> , 2010, 49, 4207.	2.1	1
216	The effect of Gaussian beam spot size on the performance of an SPR IR optical CO. , 2010, , .		2

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217	Optical characterization technique for MEMS comb-drive resonators. , 2009, , .		7
218	Optimizing stable mode-locked operation of Yb-doped fiber laser. , 2009, , .		0
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