Diaa Khalil

List of Publications by Year in descending order

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		304743	377865
311	2,124	22	34
papers	citations	h-index	g-index
313	313	313	1229
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	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
2	Monolithic siliconâ€micromachined freeâ€space optical interferometers onchip. Laser and Photonics Reviews, 2015, 9, 1-24.	8.7	81
3	Free-Space Tunable and Drop Optical Filters Using Vertical Bragg Mirrors on Silicon. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1480-1488.	2.9	66
4	Accurate Estimation of SRAM Dynamic Stability. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2008, 16, 1639-1647.	3.1	64
5	Mid Infrared Optical Gas Sensor Using Plasmonic Mach-Zehnder Interferometer. Scientific Reports, 2020, 10, 1293.	3.3	59
6	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
7	Fully Integrated Mach-Zhender MEMS Interferometer With Two Complementary Outputs. IEEE Journal of Quantum Electronics, 2012, 48, 244-251.	1.9	42
8	Integrated wide-angle scanner based on translating a curved mirror of acylindrical shape. Optics Express, 2013, 21, 13906.	3.4	39
9	Deeply-Etched Optical MEMS Tunable Filter for Swept Laser Source Applications. IEEE Photonics Technology Letters, 2014, 26, 37-39.	2.5	37
10	An exact simplified method for the normalization of radiation modes in planar multilayer structures. Optics Communications, 1992, 88, 96-100.	2.1	36
11	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
12	A MEMS-Based VOA With Very Low PDL. IEEE Photonics Technology Letters, 2004, 16, 1047-1049.	2.5	34
13	On-chip parallel Fourier transform spectrometer for broadband selective infrared spectral sensing. Microsystems and Nanoengineering, 2020, 6, 10.	7.0	31
14	Analytical Model for the Propagation Delay of Through Silicon Vias. , 2008, , .		30
15	Optical modeling of black silicon using an effective medium/multi-layer approach. Optics Express, 2018, 26, 13443.	3.4	29
16	Allâ€Silicon Doubleâ€Cavity Fourierâ€Transform Infrared Spectrometer Onâ€Chip. Advanced Materials Technologies, 2019, 4, 1900441.	5.8	28
17	Single-longitudinal-mode broadband tunable random laser. Optics Letters, 2017, 42, 3247.	3.3	27
18	Towards a full vectorial and modal technique for the analysis of integrated optics structures: the Radiation Spectrum Method (RSM). Optics Communications, 1997, 140, 128-145.	2.1	26

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19	Rigorous spectral analysis of leaky structures: application to the prism coupling problem. Optics Communications, 1995, 118, 220-226.	2.1	25
20	In-plane deeply-etched optical MEMS notch filter with high-speed tunability. Journal of Optics (United) Tj ETQq0	0 0 rgBT /	Overlock 10
21	Wideband Optical MEMS Interferometer Enabled by Multimode Interference Waveguides. Journal of Lightwave Technology, 2016, 34, 2145-2151.	4.6	25
22	Direct Absorption and Photoacoustic Spectroscopy for Gas Sensing and Analysis: A Critical Review. Laser and Photonics Reviews, 2022, 16, .	8.7	25
23	MEMS tunable Michelson interferometer with robust beam splitting architecture. , 2009, , .		24
24	Characterization of MEMS FTIR spectrometer. Proceedings of SPIE, 2011, , .	0.8	24
25	Effect of Power Supply Noise on SRAM Dynamic Stability., 2007,,.		23
26	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
27	Multiple-Imaging in 2-D MMI Silicon Hollow Waveguides. IEEE Photonics Technology Letters, 2004, 16, 2072-2074.	2.5	22
28	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
29	Propagation of Bessel beams generated using finite-width Durnin ring. Applied Optics, 2013, 52, 256.	1.8	21
30	Mid Infrared Integrated MZI Gas Sensor Using Suspended Silicon Waveguide. Journal of Lightwave Technology, 2019, 37, 4394-4400.	4.6	21
31	Two-dimensional multimode interference in integrated optical structures. Journal of Optics, 2004, 6, 137-145.	1.5	20
32	Steady and oscillating multiple dissipative solitons in normal-dispersion mode-locked Yb-doped fiber laser. Optics Express, 2009, 17, 13128.	3.4	19
33	Study of linear tapered waveguides made by ion exchange in glass. Journal Physics D: Applied Physics, 1992, 25, 913-918.	2.8	17
34	All-optical networks as microwave and millimeter-wave circuits. IEEE Transactions on Microwave Theory and Techniques, 1995, 43, 2428-2434.	4.6	17
35	Dispersion compensation in moving-optical-wedge Fourier transform spectrometer. Applied Optics, 2009, 48, 3979.	2.1	17
36	Design of strip-loaded weak-guiding multimode interference structure for an optical router. IEEE Journal of Quantum Electronics, 1998, 34, 2286-2290.	1.9	16

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37	Light polarization effects in laser-assisted elastic electron-helium collisions: a Sturmian approach. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 1115-1125.	1.5	16
38	Novel Fourier transform infrared spectrometer architecture based on cascaded Fabry-Perot interferometers. Proceedings of SPIE, 2016, , .	0.8	16
39	Fabrication and test of an integrated optical magic T on a glass substrate. IEEE Photonics Technology Letters, 2001, 13, 684-686.	2.5	15
40	Ultra-compact MEMS FTIR spectrometer. Proceedings of SPIE, 2017, , .	0.8	14
41	On the improvement of the performance of the optically controlled microwave switch. IEEE Transactions on Microwave Theory and Techniques, 1997, 45, 1358-1361.	4.6	13
42	Properties and stability limits of an optimized mode-locked Yb-doped femtosecond fiber laser. Optics Express, 2009, 17, 2264.	3.4	13
43	Signal-to-noise ratio calculation in a moving-optical-wedge spectrometer. Applied Optics, 2012, 51, 7206.	1.8	13
44	High-throughput deeply-etched scanning Michelson interferometer on-chip. , 2014, , .		13
45	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
46	In-plane coupled Fabry–Perot micro-cavities based on Si-air Bragg mirrors: a theoretical and practical study. Applied Optics, 2018, 57, 5112.	1.8	13
47	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
48	The second Born approximation in electron-atom collisions in the presence of a laser field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 957-972.	1.5	12
49	Miniaturized tunable integrated Mach-Zehnder MEMS interferometer for spectrometer applications. Proceedings of SPIE, 2010, , .	0.8	12
50	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
51	Continuous Monitoring of Air Purification: A Study on Volatile Organic Compounds in a Gas Cell. Sensors, 2020, 20, 934.	3.8	12
52	Fourier transform spectrometer based on Fabry–Perot interferometer. Applied Optics, 2016, 55, 5322.	2.1	11
53	Transformation algorithm and analysis of the Fourier transform spectrometer based on cascaded Fabry–Perot interferometers. Applied Optics, 2018, 57, 7225.	1.8	11
54	Coherent coupling of radiation modes in Mach-Zehnder electrooptic modulators. IEEE Journal of Quantum Electronics, 1992, 28, 1236-1238.	1.9	10

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55	Asymmetric excitation of symmetric single-mode Y-junctions: the radiation mode effects. IEEE Transactions on Microwave Theory and Techniques, 1992, 40, 2235-2242.	4.6	10
56	Design of an integrated optical magic T for astronomy applications. Applied Optics, 2000, 39, 6781.	2.1	10
57	A MEMS Tunable Optical Ring Resonator Filter. Optical and Quantum Electronics, 2005, 37, 835-853.	3.3	10
58	Dispersion compensation in Fourier domain optical coherence tomography. Applied Optics, 2014, 53, 6643.	1.8	10
59	Intrinsic improvement of diffraction-limited resolution in optical MEMS fourier-transform spectrometers., 2014,,.		10
60	Angle-tolerant hybrid plasmonic filters for visible light communications. Applied Optics, 2017, 56, C106.	2.1	10
61	Analysis of dual coupler nested coupled cavities. Applied Optics, 2017, 56, 9457.	1.8	10
62	Spectroscopic Gas Sensing Based on a MEMS-SOA Swept Fiber Laser Source. Journal of Lightwave Technology, 2019, 37, 5354-5360.	4.6	10
63	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
64	Compensated layout for automated accurate common-centroid capacitor arrays., 0,,.		9
65	Evaluation of Capacitor Ratios in Automated Accurate Common-Centroid Capacitor Arrays., 0,,.		9
66	Single-Mode Refractive Index Reconstruction Using an NM-Line Technique. Fiber and Integrated Optics, 2006, 25, 69-74.	2.5	9
67	Effect of the fabrication and design parameters on the performance of multimode interference devices made by ion exchange: a detailed study. Journal of Optics, 2008, 10, 125301.	1.5	9
68	Spot size effects in miniaturized moving-optical-wedge interferometer. Applied Optics, 2011, 50, 2671.	2.1	9
69	Electrostatic Comb-Drive Actuator with High In-Plane Translational Velocity. Micromachines, 2016, 7, 188.	2.9	9
70	Cascaded multimode interference phased array structures for dense wavelength division multiplexing applications. Optical Engineering, 2004, 43, 1060.	1.0	8
71	Design of Compact Integrated InGaAsP/InP Polarization Controller Over the C-Band. Journal of Lightwave Technology, 2007, 25, 2531-2538.	4.6	8
72	SRAM dynamic stability estimation using MPFP and its applications. Microelectronics Journal, 2009, 40, 1523-1530.	2.0	8

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73	Mid infrared MEMS FTIR spectrometer. Proceedings of SPIE, 2016, , .	0.8	8
74	Deeply-Etched MEMS Slotted Micromirrors With Controlled Transmittance. IEEE Journal of Quantum Electronics, 2017, 53, 1-8.	1.9	8
75	In-Plane Optical Beam Collimation Using a Three-Dimensional Curved MEMS Mirror. Micromachines, 2017, 8, 134.	2.9	8
76	Incoherent Gain-Assisted Ring Enhanced Gas Absorption Spectroscopy. IEEE Journal of Quantum Electronics, 2019, 55, 1-8.	1.9	8
77	The effect of shutter thickness on opto-mechanical variable optical attenuators. Microwave and Optical Technology Letters, 2003, 36, 110-112.	1.4	7
78	Tuning of an RF Optoelectronic Oscillator. , 2006, , .		7
79	Optical characterization technique for MEMS comb-drive resonators. , 2009, , .		7
80	Diffraction effects in optical microelectromechanical system Michelson interferometers. Applied Optics, 2010, 49, 3960.	2.1	7
81	Parameter extraction of MEMS comb-drive near-resonance equivalent circuit: physically-based technique for a unique solution. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2012, 11, 021205-1.	0.9	7
82	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
83	Network coding gain in device-to-device underlaying primary communications. , 2014, , .		7
84	On the environmental gas sensing using MEMS FTIR spectrometer in the near-infrared region. , 2016, , .		7
85	Compact Si photonic multimode interference-based optical circuit for mode division multiplexing applications. Optical Engineering, 2016, 55, 076102.	1.0	7
86	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
87	Rigorous modal analysis of multi-mode interference (MMI) structures by radiation spectrum method with multiple reflection. Optics Communications, 1997, 144, 306-314.	2.1	6
88	Design of a compact three-dimensional multimode interference phased array structures (3-D MMI) Tj $ETQq0\ 0\ 0$ 444-451.	rgBT /Ove 2.9	rlock 10 Tf 50 6
89	Yield analysis of optical MEMS assembly Process using a Monte Carlo Simulation technique. Journal of Lightwave Technology, 2005, 23, 510-516.	4.6	6
90	FTTH Triplexer Design Using Asymmetric Y-Junction With Etched Branch. IEEE Photonics Technology Letters, 2007, 19, 1157-1159.	2.5	6

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91	RF optoelectronic oscillator using a directly modulated semiconductor laser and a fiber optical ring filter. Microwave and Optical Technology Letters, 2009, 51, 470-475.	1.4	6
92	Transmission-enabled fiber Fabry–Perot cavity based on a deeply etched slotted micromirror. Applied Optics, 2018, 57, 4610.	1.8	6
93	Visible Laser on Silicon Optofluidic Microcavity. Advanced Materials Technologies, 2020, 5, 1901132.	5.8	6
94	MEMS FTIR optical spectrometer enables detection of volatile organic compounds (VOCs) in part-per-billion (ppb) range for air quality monitoring. , 2019, , .		6
95	Optical modeling of waveguide photonic nanostructures using the radiation spectrum method (RSM) with evanescent modes. IEEE Journal of Selected Topics in Quantum Electronics, 1999, 5, 127-132.	2.9	5
96	Straight multimode interference phased array structure using periodic segmented waveguide phase array. Applied Optics, 2008, 47, 5916.	2.1	5
97	A Timing-Dependent Power Estimation Framework Considering Coupling. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2009, 17, 843-847.	3.1	5
98	Deeply-etched 1 micron-thick silicon layers enabling 170-NM bandwidth highly-reflective Bragg mirrors. , 2014, , .		5
99	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
100	Multimode waveguide spot size width converter for silicon photonics applications. Optical Engineering, 2015, 54, 037103.	1.0	5
101	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
102	Optical filter finesses enhancement based on nested coupled cavities and active medium., 2016,,.		5
103	Ring laser gyroscope based on standard single-mode fiber and semiconductor optical amplifier. , 2016, ,		5
104	Environmental mid-infrared gas sensing using MEMS FTIR spectrometer., 2017,,.		5
105	Gain-assisted broadband ring cavity enhanced spectroscopy. Proceedings of SPIE, 2017, , .	0.8	5
106	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
107	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
108	Silicon photonics dual-coupler nested coupled cavities. , 2019, , .		5

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109	Effects of radiation-mode coherent coupling in integrated optics discontinuities. Applied Optics, 1994, 33, 4814.	2.1	4
110	Quasi-static analysis of an optically illuminated directional coupler. IEEE Transactions on Microwave Theory and Techniques, 1997, 45, 1351-1357.	4.6	4
111	Advances in optical filters. , 0, , .		4
112	Analysis of 2D multimode interference structures. , 0, , .		4
113	Modeling of MOEMS components using HDL-A. IEEE Journal of Selected Topics in Quantum Electronics, 2002, 8, 132-138.	2.9	4
114	Design of silicon hollow waveguide in-line polarizer using a photonic crystal concept. Journal of Optics, 2007, 9, 88-94.	1.5	4
115	The Design and Optimization of an Ion-Exchanged Polarization Converter Using a Genetic Algorithm. IEEE Photonics Technology Letters, 2007, 19, 1218-1220.	2.5	4
116	Design of an arrayed waveguide grating optical demultiplexer for CWDM applications. Journal of Optics, 2008, 10, 075307.	1.5	4
117	Mach-Zehnder MEMS interferometer with two Si/Air beam splitters. , 2009, , .		4
118	Design of CWDM multiplexers based on series coupled ring resonators: analysis, potential and prospects on MEMS fabrication technologies. Microsystem Technologies, 2010, 16, 1139-1156.	2.0	4
119	Inclination-independent transformation of light beams using high-throughput uniquely-curved micromirrors. , 2014 , , .		4
120	In-plane comb-drive actuator with high frequency-displacement product for micro-optical bench applications. , 2014, , .		4
121	MMI-based MOEMS FT spectrometer for visible and IR spectral ranges. , 2014, , .		4
122	Resonance Wavelength of Integrated Optical Ring Resonator With Small Radius of Curvature. IEEE Photonics Technology Letters, 2014, 26, 641-644.	2.5	4
123	Spatial interference management with hierarchical precoding in ultra-dense heterogeneous networks. , 2015, , .		4
124	Deeply-etched micromirror with vertical slit and metallic coating enabling transmission-type optical MEMS filters. Proceedings of SPIE, 2016, , .	0.8	4
125	Black silicon-based infrared radiation source. Proceedings of SPIE, 2016, , .	0.8	4
126	Design of a 2D fiber mode converter using a planar 2D multi-mode interference structure. Optik, 2020, 210, 164500.	2.9	4

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127	Ultra wide band MIR MEMS FTIR spectrometer. , 2019, , .		4
128	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
129	Spatiotemporal dynamics of nanowire growth in a microfluidic reactor. Microsystems and Nanoengineering, 2021, 7, 77.	7.0	4
130	MEMS FTIR spectrometer with enhanced resolution for low cost gas sensing in the NIR. , 2018 , , .		4
131	Nonharmonic large amplitude modulation of a semiconductor laser in a self-homodyne interferometric optical system. Journal of Lightwave Technology, 1991, 9, 770-778.	4.6	3
132	Weighted-index beam-propagation method for analysis of three-dimensional optical structures. IEE Proceedings: Optoelectronics, 1997, 144, 197-202.	0.8	3
133	Design of an integrated optical magic T using the multimode interference phenomena. , 1999, 3620, 298.		3
134	On the radiation mode effects in integrated optical directional couplers. Optical and Quantum Electronics, 1999, 31, 151-159.	3.3	3
135	Teaching laser dynamics and optical communication systems using a standard system simulator. , 0, , .		3
136	Title is missing!. Optical and Quantum Electronics, 2003, 35, 801-809.	3.3	3
137	Optical Characterization of Single Crystal Silicon Microlens Fabricated by the 'MEMSNAS' Process. , 0,		3
138	Optimization of optical wide band 3-dB MMI splitter with graded-index side diffusions. , 0, , .		3
139	Highly Efficient Micromachined Bragg Mirrors Using Advanced DRIE Process. , 2006, , .		3
140	Ray optics model for triangular hollow silicon waveguides. Applied Optics, 2006, 45, 7567.	2.1	3
141	Assessment of the NM-Lines Sensitivity for Measurement Errors. Fiber and Integrated Optics, 2007, 26, 1-15.	2.5	3
142	In-plane diffraction loss free optical cavity using coated optical fiber and silicon micromachined spherical mirror. , 2013 , , .		3
143	Robust energy harvesting aware clustering with fuzzy petri net reasoning algorithm. , 2014, , .		3
144	Dual-fiber OCT measurements. Proceedings of SPIE, 2014, , .	0.8	3

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145	MEMS optical tunable filter based on free-standing subwavelength silicon layers. Proceedings of SPIE, 2014, , .	0.8	3
146	Thermal stability of multi-longitudinal mode laser beating frequencies in hybrid semiconductor-fiber ring lasers. Proceedings of SPIE, 2015, , .	0.8	3
147	Study of dual-source Fourier-domain optical coherence tomography. Optical Engineering, 2015, 54, 104112.	1.0	3
148	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
149	Theoretical and experimental analysis of the fabrication tolerance on deeply etched silicon/air Bragg micromirrors. , 2017, , .		3
150	Overcoming the near-infra-red spectral range limit with Fabry-Perot silicon microcavity enabled by slotted micromirrors. , 2017, , .		3
151	Strip Waveguide Enabling Low Loss for Silicon on Silica Technology in the MIR. , 2018, , .		3
152	Optical MEMS-scale multipass white cell for onchip gas sensing. , 2018, , .		3
153	Performance Improvement of White LED-Based VLC Systems Using Blue and Flattening Filters., 2019,,.		3
154	On the Detection of Volatile Organic Compounds (VOCs) Using Machine Learning and FTIR Spectroscopy for Air Quality Monitoring. , 2019, , .		3
155	NIR and MIR Absorption of Ultra-Black Silicon (UBS). Application to High Emissivity, All-Silicon, Light Source., 2019,,.		3
156	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
157	Silicon photonic coupled-ring resonator in nested configuration comprising different length scales. , 2019, , .		3
158	Silicon Multi-Pass Gas Cell for Chip-Scale Gas Analysis by Absorption Spectroscopy. Micromachines, 2020, 11, 463.	2.9	3
159	Single MEMS Chip Enabling Dual Spectralâ€Range Infrared Microâ€Spectrometer with Optimal Detectors. Advanced Materials Technologies, 2021, 6, 2001013.	5.8	3
160	Optimization of silicon on silica waveguides for mid-infrared applications at 4.28 um., 2019, , .		3
161	Planar asymmetric nano-resonators for highly angle tolerant trans-reflective color filters. OSA Continuum, 2019, 2, 890.	1.8	3
162	Autoregressive superresolution microelectromechanical systems Fourier transform spectrometer. Applied Optics, 2019, 58, 6784.	1.8	3

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163	Simple homodyne technique for the characterisation of wideband optical detectors., 1990,,.		2
164	Optimized 3D design of an MMI splitter with ion exchange technology., 2005, 5970, 397.		2
165	A Timing Dependent Power Estimation Framework Considering Coupling. IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, 2006, , .	0.0	2
166	SRAM dynamic stability estimation using MPFP., 2007,,.		2
167	Comparison of the N times mode-lines technique to the inverse technique in refractive index profile reconstruction. Optical Engineering, 2007, 46, 094601.	1.0	2
168	A Semianalytical Technique for Leaky-Mode Loss Calculation in Hollow Dielectric Waveguides With Arbitrary Cross Sections. Journal of Lightwave Technology, 2007, 25, 2337-2344.	4.6	2
169	Modeling mask scattered field at oblique incidence. , 2009, , .		2
170	The effect of Gaussian beam spot size on the performance of an SPR IR optical CO., 2010,,.		2
171	Linewidth of swept laser source. Proceedings of SPIE, 2012, , .	0.8	2
172	Wide steering angle microscanner based on curved surface. Proceedings of SPIE, 2013, , .	0.8	2
173	MEMS corner-cube transmission-type optical phase modulator in DRIE technology. , 2014, , .		2
174	Design of an InGaAsP/InP compact integrated optical depolarizer. Applied Optics, 2015, 54, 9017.	2.1	2
175	Diffraction grating polarization beam splitter using nano optical slits. Optical and Quantum Electronics, 2015, 47, 3837-3845.	3.3	2
176	D3. Optical coupling of cylindrical micromirrors in micro-optical benches. , 2015, , .		2
177	Design optimization of linearly DC controlled staggered vertical comb drive actuators. Microsystem Technologies, 2015, 21, 85-90.	2.0	2
178	Beating signal power level improvement in ring lasers based on coupled ring resonators. , 2016, , .		2
179	Optical diffuse reflectance of Black Silicon and its isotropicity. , 2016, , .		2
180	Multi-segment tapered optical mirror for MEMS LiDAR application. , 2017, , .		2

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181	Narrow line width semiconductor optical amplifier based random laser. Proceedings of SPIE, 2017, , .	0.8	2
182	Dual wavelength SOA based fiber ring laser. Proceedings of SPIE, 2017, , .	0.8	2
183	Optical characterization of high speed microscanners based on static slit profiling method. Optics and Lasers in Engineering, 2017, 88, 129-138.	3.8	2
184	Toward On-Chip MEMS-Based Optical Autocorrelator. Journal of Lightwave Technology, 2018, 36, 5003-5009.	4.6	2
185	Near-infrared optical MEMS spectrometer-based quantification of fat concentration in milk., 2018,,.		2
186	Combining MEMS FTIR Spectrometer and Widened-Spectrum Mode-Locked Fiber Laser for Gas-Sensing. , 2019, , .		2
187	MEMS FTIR Parallel Spectrometer for Non-Invasive Skin Biochemistry Analysis., 2021,,.		2
188	Physical Parameter Extraction and Modeling of Metallized Deeply-Etched Vertical Mirrors. Journal of Microelectromechanical Systems, 2021, 30, 930-938.	2.5	2
189	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
190	Characteristics of a refractometer based on Michelson interferometer integrated with a Fabry-Perot interferometer. Optik, 2021, 242, 167170.	2.9	2
191	Complex Kernel-based spectrum reconstruction algorithm for cascaded Fabry–Perot interferometric spectrometer. Applied Optics, 2021, 60, 8999.	1.8	2
192	Modelling of ATR-FTIR MEMS Spectrometer Under Partially-Coherent Multimode-Fiber Illumination. Journal of Lightwave Technology, 2021, 39, 7092-7098.	4.6	2
193	Mode converter using 2D MMI. , 2018, , .		2
194	Dual coupler coupled cavities optical gyroscope with enhanced performance. , 2018, , .		2
195	MEMS-based Fourier transform spectrometer using pulsed infrared light source. , 2018, , .		2
196	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
197	Active fiber-ring enhanced absorption gas spectroscopy using multi-longitudinal mode tunable laser in the NIR. , 2019, , .		2
198	Attenuated total reflection (ATR) MEMS FTIR spectrometer. , 2020, , .		2

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199	High sensitivity refractive index sensing using zone plate metasurfaces with a conical phase profile. Scientific Reports, 2022, 12, .	3.3	2
200	An optically controlled microwave matching technique. Microwave and Optical Technology Letters, $1996,11,284\text{-}290.$	1.4	1
201	A MEMS-based Coupled-cavity Tunable Optical Filter. , 0, , .		1
202	SPICE Modeling of Free-Space Optical Systems. , 2006, , .		1
203	Multiple Quantum Well laser diode parameter extraction using the IM response. , 2007, , .		1
204	Modeling the field diffracted from photo mask at oblique incidence. Applied Optics, 2010, 49, 4207.	2.1	1
205	Fabrication of optical filters using multilayered porous silicon. Proceedings of SPIE, 2011, , .	0.8	1
206	Prioritized Adaptive Modulation for MIMO-OFDM Using Pre-Ordered SIC. , 2012, , .		1
207	Effect of ring width on ring generated Bessel beam. , 2012, , .		1
208	Three-dimensional collimation of in-plane-propagating light using silicon micromachined mirror. , 2014, , .		1
209	Volume refractometry of liquids using stable optofluidic Fabry-PÃ @rot resonator with curved surfaces. , 2015, , .		1
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