

Mazen Erfan

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

212
citations

1478505

6
h-index

1372567

10
g-index

22
all docs

22
docs citations

22
times ranked

234
citing authors

#	ARTICLE	IF	CITATIONS
1	On-Chip Micro-Electro-Mechanical System Fourier Transform Infrared (MEMS FT-IR) Spectrometer-Based Gas Sensing. <i>Applied Spectroscopy</i> , 2016, 70, 897-904.	2.2	105
2	Wideband Optical MEMS Interferometer Enabled by Multimode Interference Waveguides. <i>Journal of Lightwave Technology</i> , 2016, 34, 2145-2151.	4.6	25
3	High-Q Fabry-Perot Micro-Cavities for High-Sensitivity Volume Refractometry. <i>Micromachines</i> , 2018, 9, 54.	2.9	12
4	Continuous Monitoring of Air Purification: A Study on Volatile Organic Compounds in a Gas Cell. <i>Sensors</i> , 2020, 20, 934.	3.8	12
5	Nanowire Length, Density, and Crystalline Quality Retrieved from a Single Optical Spectrum. <i>Nano Letters</i> , 2019, 19, 2509-2515.	9.1	9
6	Mid infrared MEMS FTIR spectrometer. <i>Proceedings of SPIE</i> , 2016, , .	0.8	8
7	On the environmental gas sensing using MEMS FTIR spectrometer in the near-infrared region. , 2016, , .		7
8	MEMS FTIR optical spectrometer enables detection of volatile organic compounds (VOCs) in part-per-billion (ppb) range for air quality monitoring. , 2019, , .		6
9	Environmental mid-infrared gas sensing using MEMS FTIR spectrometer. , 2017, , .		5
10	TiO ₂ -Coated ZnO Nanowire Arrays: A Photocatalyst with Enhanced Chemical Corrosion Resistance. <i>Catalysts</i> , 2021, 11, 1289.	3.5	5
11	Spatiotemporal dynamics of nanowire growth in a microfluidic reactor. <i>Microsystems and Nanoengineering</i> , 2021, 7, 77.	7.0	4
12	MEMS FTIR spectrometer with enhanced resolution for low cost gas sensing in the NIR. , 2018, , .		4
13	Overcoming the near-infra-red spectral range limit with Fabry-Perot silicon microcavity enabled by slotted micromirrors. , 2017, , .		3
14	Multi-segment tapered optical mirror for MEMS LiDAR application. , 2017, , .		2
15	Rapid assessment of nanomaterial homogeneity reveals crosswise structural gradients in zinc-oxide nanowire arrays. <i>Nanoscale</i> , 2020, 12, 1397-1405.	5.6	2
16	Multimode spot-size converter for optical MEMS applications. , 2017, , .		1
17	Kinetics Study and Online Monitoring of in-Situ Growth of Zinc-Oxide Nanowire Arrays Within Microfluidic Chambers. , 2020, , .		1
18	Critical analysis of in-plane free-space light beam coupling using photonic curved micromirrors. <i>Journal of Optical Microsystems</i> , 2022, 2, .	1.5	1

#	ARTICLE	IF	CITATIONS
19	Optical MEMS notch filter based on the multi-mode interference in a butterfly metallic waveguide. , 2018, , .		0
20	Monitoring the purification of tobacco smoke in air assisted by ZnO nanowires and using MEMS-FTIR spectrometer for online continuous analysis of volatile organic compounds (VOCs). , 2019, , .		0
21	Zinc-oxide nanowires growth in-situ in microfluidic chamber. , 2019, , .		0
22	Zinc-oxide nanowires characterization using optical reflectance. , 2019, , .		0