

Eleni Makarona

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,367
citations

361413

20
h-index

330143

37
g-index

42
all docs

42
docs citations

42
times ranked

1635
citing authors

#	ARTICLE	IF	CITATIONS
1	Stress engineering during metalorganic chemical vapor deposition of AlGaIn/GaN distributed Bragg reflectors. <i>Applied Physics Letters</i> , 2001, 78, 3205-3207.	3.3	163
2	A dual-wavelength indium gallium nitride quantum well light emitting diode. <i>Applied Physics Letters</i> , 2001, 79, 2532-2534.	3.3	118
3	Polyoxometalate-Based Layered Structures for Charge Transport Control in Molecular Devices. <i>ACS Nano</i> , 2008, 2, 733-742.	14.6	113
4	Vertical cavity violet light emitting diode incorporating an aluminum gallium nitride distributed Bragg mirror and a tunnel junction. <i>Applied Physics Letters</i> , 2001, 79, 3720-3722.	3.3	97
5	Broad-band Mach-Zehnder interferometers as high performance refractive index sensors: Theory and monolithic implementation. <i>Optics Express</i> , 2014, 22, 8856.	3.4	66
6	Integrated optical frequency-resolved Mach-Zehnder interferometers for label-free affinity sensing. <i>Optics Express</i> , 2010, 18, 8193.	3.4	63
7	All-silicon monolithic Mach-Zehnder interferometer as a refractive index and bio-chemical sensor. <i>Optics Express</i> , 2014, 22, 26803.	3.4	61
8	Vertical devices of self-assembled hybrid organic/inorganic monolayers based on tungsten polyoxometalates. <i>Microelectronic Engineering</i> , 2008, 85, 1399-1402.	2.4	54
9	Near ultraviolet optically pumped vertical cavity laser. <i>Electronics Letters</i> , 2000, 36, 1777.	1.0	49
10	Ultraviolet light-emitting diodes operating in the 340nm wavelength range and application to time-resolved fluorescence spectroscopy. <i>Applied Physics Letters</i> , 2004, 85, 1436-1438.	3.3	46
11	Point-of-Need bioanalytics based on planar optical interferometry. <i>Biotechnology Advances</i> , 2016, 34, 209-233.	11.7	46
12	Humidity Sensing Properties of Paper Substrates and Their Passivation with ZnO Nanoparticles for Sensor Applications. <i>Sensors</i> , 2017, 17, 516.	3.8	45
13	Assessment of goat milk adulteration with a label-free monolithically integrated optoelectronic biosensor. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 3995-4004.	3.7	42
14	Detection of ochratoxin A in beer samples with a label-free monolithically integrated optoelectronic biosensor. <i>Journal of Hazardous Materials</i> , 2017, 323, 75-83.	12.4	41
15	Simultaneous determination of aflatoxin B1, fumonisin B1 and deoxynivalenol in beer samples with a label-free monolithically integrated optoelectronic biosensor. <i>Journal of Hazardous Materials</i> , 2018, 359, 445-453.	12.4	41
16	Molecular Storage Elements for Proton Memory Devices. <i>Advanced Materials</i> , 2008, 20, 4568-4574.	21.0	36
17	Ultrafast Multiplexed-Allergen Detection through Advanced Fluidic Design and Monolithic Interferometric Silicon Chips. <i>Analytical Chemistry</i> , 2018, 90, 9559-9567.	6.5	35
18	Monolithically integrated broad-band Mach-Zehnder interferometers for highly sensitive label-free detection of biomolecules through dual polarization optics. <i>Scientific Reports</i> , 2015, 5, 17600.	3.3	26

#	ARTICLE	IF	CITATIONS
19	Fast label-free detection of C-reactive protein using broad-band Mach-Zehnder interferometers integrated on silicon chips. <i>Talanta</i> , 2017, 165, 458-465.	5.5	24
20	Coherent generation of 100 GHz acoustic phonons by dynamic screening of piezoelectric fields in AlGaIn/GaN multilayers. <i>Applied Physics Letters</i> , 2002, 81, 2791-2793.	3.3	23
21	ALD deposited ZrO ₂ ultrathin layers on Si and Ge substrates: A multiple technique characterization. <i>Microelectronic Engineering</i> , 2013, 112, 208-212.	2.4	20
22	Biomolecular layer thickness evaluation using White Light Reflectance Spectroscopy. <i>Microelectronic Engineering</i> , 2010, 87, 802-805.	2.4	17
23	Solution-processed nanostructured zinc oxide cathode interfacial layers for efficient inverted organic photovoltaics. <i>Microelectronic Engineering</i> , 2014, 119, 100-104.	2.4	17
24	Facile and cost-efficient development of PMMA-based nanocomposites with custom-made hydrothermally-synthesized ZnO nanofillers. <i>Nano Structures Nano Objects</i> , 2019, 17, 7-20.	3.5	17
25	Rapid detection of mozzarella and feta cheese adulteration with cow milk through a silicon photonic immunosensor. <i>Analyst, The</i> , 2021, 146, 529-537.	3.5	17
26	Growth of ZnO nanorods on patterned templates for efficient, large-area energy scavengers. <i>Microsystem Technologies</i> , 2010, 16, 669-675.	2.0	15
27	All-Silicon Spectrally Resolved Interferometric Circuit for Multiplexed Diagnostics: A Monolithic Lab-on-a-Chip Integrating All Active and Passive Components. <i>ACS Photonics</i> , 2019, 6, 1694-1705.	6.6	14
28	Controllable fabrication of bioinspired three-dimensional ZnO/Si nanoarchitectures. <i>Materials Letters</i> , 2015, 142, 211-216.	2.6	12
29	Hybrid organic-inorganic materials for molecular proton memory devices. <i>Organic Electronics</i> , 2009, 10, 711-718.	2.6	8
30	Paper-based Humidity Sensor Coated with ZnO Nanoparticles: The Influence of ZnO. <i>Procedia Engineering</i> , 2016, 168, 325-328.	1.2	7
31	A High Injection Resonant Cavity Violet Light Emitting Diode Incorporating (Al,Ga)N Distributed Bragg Reflector. <i>Physica Status Solidi A</i> , 2001, 188, 105-108.	1.7	6
32	Monolithically-integrated Young interferometers for label-free and multiplexed detection of biomolecules. <i>Proceedings of SPIE</i> , 2016, , .	0.8	5
33	Broadband Young interferometry for simultaneous dual polarization bioanalytics. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 1691.	2.1	5
34	A Cost-efficient Solution-based Process for the Development of ZnO Nanostructures: A Comprehensive Study of the Role of the Seeding Layer Formation Conditions. <i>Procedia Engineering</i> , 2015, 120, 447-450.	1.2	4
35	CuO/PMMA Polymer Nanocomposites as Novel Resist Materials for E-Beam Lithography. <i>Nanomaterials</i> , 2021, 11, 762.	4.1	4
36	Selective immobilization of proteins guided by photo-patterned poly(vinyl alcohol) structures. <i>Procedia Engineering</i> , 2011, 25, 292-295.	1.2	3

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37	Controlled synthesis of periodic arrays of ZnO nanostructures combining e-beam lithography and solution-based processes leveraged by micro X-ray fluorescence spectroscopy. <i>Micro and Nano Engineering</i> , 2020, 8, 100063.	2.9	3
38	Production and Mechanical Characterization of Graphene Micro-Ribbons. <i>Journal of Composites Science</i> , 2019, 3, 42.	3.0	2
39	Direct MBE growth of GaN on GaAs substrates for integrated short wavelength emitters. <i>Materials Science in Semiconductor Processing</i> , 2000, 3, 511-515.	4.0	1
40	Monolithic silicon optocoupler engineering based on tapered waveguides. <i>Microelectronic Engineering</i> , 2008, 85, 1074-1076.	2.4	1
41	Immunity Passports and Entrepreneurial Opportunities in the COVID-19 Era. <i>Springer Proceedings in Business and Economics</i> , 2021, , 187-198.	0.3	0
42	Monolithically Integrated Label-Free Optical Immunosensors. , 2022, 16, .		0