

Ioannis Zeimpekis

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

941
citations

623734

14
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

1027
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Family of Ultralow Loss Reversible Phase-Change Materials for Photonic Integrated Circuits: Sb ₂ S ₃ and Sb ₂ Se ₃ . <i>Advanced Functional Materials</i> , 2020, 30, 2002447.	14.9	285
2	Nonvolatile programmable silicon photonics using an ultralow-loss Sb ₂ Se ₃ phase change material. <i>Science Advances</i> , 2021, 7, .	10.3	127
3	Field-effect sensors “from pH sensing to biosensing: sensitivity enhancement using streptavidin-biotin as a model system. <i>Analyst</i> , The, 2017, 142, 4173-4200.	3.5	109
4	A dicing free SOI process for MEMS devices. <i>Microelectronic Engineering</i> , 2012, 95, 121-129.	2.4	57
5	Ultra-fast electronic detection of antimicrobial resistance genes using isothermal amplification and Thin Film Transistor sensors. <i>Biosensors and Bioelectronics</i> , 2017, 96, 281-287.	10.1	51
6	Characterization of a Mechanical Motion Amplifier Applied to a MEMS Accelerometer. <i>Journal of Microelectromechanical Systems</i> , 2012, 21, 1032-1042.	2.5	47
7	Deep Learning Enabled Design of Complex Transmission Matrices for Universal Optical Components. <i>ACS Photonics</i> , 2021, 8, 283-295.	6.6	44
8	On-chip sub-wavelength Bragg grating design based on novel low loss phase-change materials. <i>Optics Express</i> , 2020, 28, 16394.	3.4	39
9	High-throughput physical vapour deposition flexible thermoelectric generators. <i>Scientific Reports</i> , 2019, 9, 4393.	3.3	36
10	Low-Cost Nanoribbon Sensors for Protein Analysis in Human Serum Using a Miniature Bead-Based Enzyme-Linked Immunosorbent Assay. <i>Analytical Chemistry</i> , 2016, 88, 4872-4878.	6.5	29
11	Towards low loss non-volatile phase change materials in mid index waveguides. <i>Neuromorphic Computing and Engineering</i> , 2021, 1, 014004.	5.9	24
12	Mechanochromic Reconfigurable Metasurfaces. <i>Advanced Science</i> , 2019, 6, 1900974.	11.2	23
13	Three-Mask Polysilicon Thin-Film Transistor Biosensor. <i>IEEE Transactions on Electron Devices</i> , 2014, 61, 2170-2176.	3.0	17
14	A Review of Capabilities and Scope for Hybrid Integration Offered by Silicon-Nitride-Based Photonic Integrated Circuits. <i>Sensors</i> , 2022, 22, 4227.	3.8	15
15	Time-resolved reversible optical switching of the ultralow-loss phase change material Sb ₂ Se ₃ . <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 064013.	2.2	12
16	Observation of Complete Photonic Bandgap in Low Refractive Index Contrast Inverse Rod-Connected Diamond Structured Chalcogenides. <i>ACS Photonics</i> , 2019, 6, 1248-1254.	6.6	11
17	Study of parasitic resistance effects in nanowire and nanoribbon biosensors. <i>Nanoscale Research Letters</i> , 2015, 10, 79.	5.7	8
18	Linear Electron Beam Assisted Roll-to-Roll in-Vacuum Flexographic Patterning for Flexible Thermoelectric Generators. <i>Coatings</i> , 2021, 11, 1470.	2.6	5

#	ARTICLE	IF	CITATIONS
19	A Sub-30 mpH Resolution Thin Film Transistor-Based Nanoribbon Biosensing Platform. Sensors, 2017, 17, 2000.	3.8	2
20	Fabrication of micro-scale fracture specimens for nuclear applications by direct laser writing. MRS Advances, 2018, 3, 1771-1775.	0.9	0