

# 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  | Monolithically Integrated Label-Free Optical Immunosensors. , 2022, 16, .  |      | 0         |
| 2  | Immunity Passports and Entrepreneurial Opportunities in the COVID-19 Era. Springer Proceedings in Business and Economics, 2021, , 187-198.   | 0.3  | 0         |
| 3  | CuO/PMMA Polymer Nanocomposites as Novel Resist Materials for E-Beam Lithography. Nanomaterials, 2021, 11, 762.  | 4.1  | 4         |
| 4  | Rapid detection of mozzarella and feta cheese adulteration with cow milk through a silicon photonic immunosensor. Analyst, The, 2021, 146, 529-537.  | 3.5  | 17        |
| 5  | Controlled synthesis of periodic arrays of ZnO nanostructures combining e-beam lithography and solution-based processes leveraged by micro X-ray fluorescence spectroscopy. Micro and Nano Engineering, 2020, 8, 100063. | 2.9  | 3         |
| 6  | All-Silicon Spectrally Resolved Interferometric Circuit for Multiplexed Diagnostics: A Monolithic Lab-on-a-Chip Integrating All Active and Passive Components. ACS Photonics, 2019, 6, 1694-1705.                        | 6.6  | 14        |
| 7  | Production and Mechanical Characterization of Graphene Micro-Ribbons. Journal of Composites Science, 2019, 3, 42.  | 3.0  | 2         |
| 8  | Facile and cost-efficient development of PMMA-based nanocomposites with custom-made hydrothermally-synthesized ZnO nanofillers. Nano Structures Nano Objects, 2019, 17, 7-20.  | 3.5  | 17        |
| 9  | Simultaneous determination of aflatoxin B1, fumonisin B1 and deoxynivalenol in beer samples with a label-free monolithically integrated optoelectronic biosensor. Journal of Hazardous Materials, 2018, 359, 445-453.    | 12.4 | 41        |
| 10 | Ultrafast Multiplexed-Allergen Detection through Advanced Fluidic Design and Monolithic Interferometric Silicon Chips. Analytical Chemistry, 2018, 90, 9559-9567.  | 6.5  | 35        |
| 11 | Detection of ochratoxin A in beer samples with a label-free monolithically integrated optoelectronic biosensor. Journal of Hazardous Materials, 2017, 323, 75-83.  | 12.4 | 41        |
| 12 | Fast label-free detection of C-reactive protein using broad-band Mach-Zehnder interferometers integrated on silicon chips. Talanta, 2017, 165, 458-465.  | 5.5  | 24        |
| 13 | Broadband Young Interferometry for simultaneous dual polarization bioanalytics. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 1691.  | 2.1  | 5         |
| 14 | Humidity Sensing Properties of Paper Substrates and Their Passivation with ZnO Nanoparticles for Sensor Applications. Sensors, 2017, 17, 516.  | 3.8  | 45        |
| 15 | Paper-based Humidity Sensor Coated with ZnO Nanoparticles: The Influence of ZnO. Procedia Engineering, 2016, 168, 325-328.   | 1.2  | 7         |
| 16 | Monolithically-integrated Young interferometers for label-free and multiplexed detection of biomolecules. Proceedings of SPIE, 2016, , .   | 0.8  | 5         |
| 17 | Point-of-Need bioanalytics based on planar optical interferometry. Biotechnology Advances, 2016, 34, 209-233.  | 11.7 | 46        |
| 18 | Monolithically integrated broad-band Mach-Zehnder interferometers for highly sensitive label-free detection of biomolecules through dual polarization optics. Scientific Reports, 2015, 5, 17600.                        | 3.3  | 26        |

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|----|---|------|-----------|
| 19 | 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         |
| 20 | 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        |
| 21 | Controllable fabrication of bioinspired three-dimensional ZnO/Si nanoarchitectures. <i>Materials Letters</i> , 2015, 142, 211-216.  | 2.6  | 12        |
| 22 | 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        |
| 23 | All-silicon monolithic Mach-Zehnder interferometer as a refractive index and bio-chemical sensor. <i>Optics Express</i> , 2014, 22, 26803.  | 3.4  | 61        |
| 24 | Solution-processed nanostructured zinc oxide cathode interfacial layers for efficient inverted organic photovoltaics. <i>Microelectronic Engineering</i> , 2014, 119, 100-104.                                    | 2.4  | 17        |
| 25 | ALD deposited ZrO <sub>2</sub> ultrathin layers on Si and Ge substrates: A multiple technique characterization. <i>Microelectronic Engineering</i> , 2013, 112, 208-212.  | 2.4  | 20        |
| 26 | Selective immobilization of proteins guided by photo-patterned poly(vinyl alcohol) structures. <i>Procedia Engineering</i> , 2011, 25, 292-295.   | 1.2  | 3         |
| 27 | Growth of ZnO nanorods on patterned templates for efficient, large-area energy scavengers. <i>Microsystem Technologies</i> , 2010, 16, 669-675.   | 2.0  | 15        |
| 28 | Biomolecular layer thickness evaluation using White Light Reflectance Spectroscopy. <i>Microelectronic Engineering</i> , 2010, 87, 802-805.   | 2.4  | 17        |
| 29 | Integrated optical frequency-resolved Mach-Zehnder interferometers for label-free affinity sensing. <i>Optics Express</i> , 2010, 18, 8193.   | 3.4  | 63        |
| 30 | Hybrid organic-inorganic materials for molecular proton memory devices. <i>Organic Electronics</i> , 2009, 10, 711-718.   | 2.6  | 8         |
| 31 | Molecular Storage Elements for Proton Memory Devices. <i>Advanced Materials</i> , 2008, 20, 4568-4574.  | 21.0 | 36        |
| 32 | Monolithic silicon optocoupler engineering based on tapered waveguides. <i>Microelectronic Engineering</i> , 2008, 85, 1074-1076.   | 2.4  | 1         |
| 33 | Vertical devices of self-assembled hybrid organic/inorganic monolayers based on tungsten polyoxometalates. <i>Microelectronic Engineering</i> , 2008, 85, 1399-1402.  | 2.4  | 54        |
| 34 | Polyoxometalate-Based Layered Structures for Charge Transport Control in Molecular Devices. <i>ACS Nano</i> , 2008, 2, 733-742.   | 14.6 | 113       |
| 35 | 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        |
| 36 | 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        |

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|----|---|-----|-----------|
| 37 | A dual-wavelength indium gallium nitride quantum well light emitting diode. Applied Physics Letters, 2001, 79, 2532-2534.   | 3.3 | 118       |
| 38 | Vertical cavity violet light emitting diode incorporating an aluminum gallium nitride distributed Bragg mirror and a tunnel junction. Applied Physics Letters, 2001, 79, 3720-3722. | 3.3 | 97        |
| 39 | A High Injection Resonant Cavity Violet Light Emitting Diode Incorporating (Al,Ga)N Distributed Bragg Reflector. Physica Status Solidi A, 2001, 188, 105-108.                       | 1.7 | 6         |
| 40 | Stress engineering during metalorganic chemical vapor deposition of AlGaIn/GaN distributed Bragg reflectors. Applied Physics Letters, 2001, 78, 3205-3207.                          | 3.3 | 163       |
| 41 | Direct MBE growth of GaN on GaAs substrates for integrated short wavelength emitters. Materials Science in Semiconductor Processing, 2000, 3, 511-515.                              | 4.0 | 1         |
| 42 | Near ultraviolet optically pumped vertical cavity laser. Electronics Letters, 2000, 36, 1777.   | 1.0 | 49        |