

Ioannis Raptis

List of Publications by Year in descending order

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85
papers

1,417
citations

331670

21
h-index

395702

33
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86
all docs

86
docs citations

86
times ranked

1464
citing authors

#	ARTICLE	IF	CITATIONS
1	Lithographically fabricated disposable bismuth-film electrodes for the trace determination of Pb(II) and Cd(II) by anodic stripping voltammetry. <i>Electrochimica Acta</i> , 2008, 53, 5294-5299.	5.2	124
2	Integrated optical frequency-resolved Mach-Zehnder interferometers for label-free affinity sensing. <i>Optics Express</i> , 2010, 18, 8193.	3.4	63
3	Novel disposable microfabricated antimony-film electrodes for adsorptive stripping analysis of trace Ni(II). <i>Electrochemistry Communications</i> , 2009, 11, 250-253.	4.7	58
4	Novel disposable bismuth-sputtered electrodes for the determination of trace metals by stripping voltammetry. <i>Electrochemistry Communications</i> , 2007, 9, 2795-2800.	4.7	57
5	Disposable mercury-free cell-on-a-chip devices with integrated microfabricated electrodes for the determination of trace nickel(II) by adsorptive stripping voltammetry. <i>Analytica Chimica Acta</i> , 2008, 622, 111-118.	5.4	51
6	Disposable lithographically fabricated bismuth microelectrode arrays for stripping voltammetric detection of trace metals. <i>Electrochemistry Communications</i> , 2011, 13, 391-395.	4.7	43
7	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
8	Vapor sorption in thin supported polymer films studied by white light interferometry. <i>Polymer</i> , 2006, 47, 6117-6122.	3.8	41
9	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
10	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
11	Simultaneous determination of CRP and D-dimer in human blood plasma samples with White Light Reflectance Spectroscopy. <i>Biosensors and Bioelectronics</i> , 2016, 84, 89-96.	10.1	37
12	Ultrafast Multiplexed-Allergen Detection through Advanced Fluidic Design and Monolithic Interferometric Silicon Chips. <i>Analytical Chemistry</i> , 2018, 90, 9559-9567.	6.5	35
13	Microfabricated disposable lab-on-a-chip sensors with integrated bismuth microelectrode arrays for voltammetric determination of trace metals. <i>Analytica Chimica Acta</i> , 2012, 710, 1-8.	5.4	33
14	Simultaneous determination of paraquat and atrazine in water samples with a white light reflectance spectroscopy biosensor. <i>Journal of Hazardous Materials</i> , 2018, 359, 67-75.	12.4	31
15	Ordering domains of spin cast blends of conjugated and dielectric polymers on surfaces patterned by soft- and photo-lithography. <i>Soft Matter</i> , 2009, 5, 234-241.	2.7	30
16	Fast simultaneous detection of three pesticides by a White Light Reflectance Spectroscopy sensing platform. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 1214-1223.	7.8	30
17	Determination of Trace Tl(I) by Anodic Stripping Voltammetry on Novel Disposable Microfabricated Bismuth-Film Sensors. <i>Electroanalysis</i> , 2010, 22, 2359-2365.	2.9	27
18	Polymeric electrolytes for WO ₃ -based all solid-state electrochromic displays. <i>Microelectronic Engineering</i> , 2006, 83, 1414-1417.	2.4	26

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19	Free-radical synthesis of narrow polydispersed 2-hydroxyethyl methacrylate-based tetrapolymers for dilute aqueous base developable negative photoresists. <i>Polymer</i> , 2002, 43, 1103-1113.	3.8	24
20	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
21	Fast, sensitive and selective determination of herbicide glyphosate in water samples with a White Light Reflectance Spectroscopy immunosensor. <i>Talanta</i> , 2020, 214, 120854.	5.5	24
22	Rapid and sensitive label-free determination of aflatoxin M1 levels in milk through a White Light Reflectance Spectroscopy immunosensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 104-111.	7.8	21
23	Multiplexed mycotoxins determination employing white light reflectance spectroscopy and silicon chips with silicon oxide areas of different thickness. <i>Biosensors and Bioelectronics</i> , 2020, 153, 112035.	10.1	21
24	In situ monitoring of thermal transitions in thin polymeric films via optical interferometry. <i>Polymer</i> , 2003, 44, 251-260.	3.8	19
25	A monolithic photonic microcantilever device for in situ monitoring of volatile compounds. <i>Lab on A Chip</i> , 2009, 9, 1261.	6.0	18
26	Imaging and chemical surface analysis of biomolecular functionalization of monolithically integrated on silicon Mach-Zehnder interferometric immunosensors. <i>Applied Surface Science</i> , 2016, 385, 529-542.	6.1	18
27	Rapid Detection of Salmonella typhimurium in Drinking Water by a White Light Reflectance Spectroscopy Immunosenor. <i>Sensors</i> , 2021, 21, 2683.	3.8	18
28	Dilute aqueous base developable resists for environmentally friendly and biocompatible processes. <i>Microelectronic Engineering</i> , 2002, 61-62, 819-827.	2.4	17
29	Real-time label-free detection of complement activation products in human serum by white light reflectance spectroscopy. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3359-3364.	10.1	17
30	Development and Bioanalytical Applications of a White Light Reflectance Spectroscopy Label-Free Sensing Platform. <i>Biosensors</i> , 2017, 7, 46.	4.7	17
31	Rapid C-reactive protein determination in whole blood with a White Light Reflectance Spectroscopy label-free immunosensor for Point-of-Care applications. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 282-288.	7.8	17
32	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
33	Imaging and spectroscopic comparison of multi-step methods to form DNA arrays based on the biotin-streptavidin system. <i>Analyst, The</i> , 2015, 140, 1127-1139.	3.5	15
34	Electron Beam Lithography Simulation on Homogeneous and Multilayer Substrates. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 635-644.	1.5	14
35	A lithographic polymer process sequence for chemical sensing arrays. <i>Microelectronic Engineering</i> , 2006, 83, 1192-1196.	2.4	14
36	Stochastic Simulation of Material and Process Effects on the Patterning of Complex Layouts. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 6191-6197.	1.5	14

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37	Monitoring and Evaluation of Alcoholic Fermentation Processes Using a Chemocapacitor Sensor Array. <i>Sensors</i> , 2014, 14, 16258-16273.	3.8	14
38	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
39	Indirect immunoassay on functionalized silicon surface: Molecular arrangement, composition and orientation examined step-by-step with multi-technique and multivariate analysis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 150, 437-444.	5.0	13
40	Strippable aqueous base developable negative photoresist for high aspect ratio micromachining. <i>Microelectronic Engineering</i> , 2002, 61-62, 729-735.	2.4	12
41	Non-destructive method for monitoring glass transitions in thin photoresist films. <i>Microelectronic Engineering</i> , 2002, 61-62, 829-834.	2.4	12
42	Sequential polymer lithography for chemical sensor arrays. <i>European Polymer Journal</i> , 2007, 43, 4602-4612.	5.4	11
43	Polymer-BaTiO ₃ composites: Dielectric constant and vapor sensing properties in chemocapacitor applications. <i>Journal of Applied Polymer Science</i> , 2012, 125, 2577-2584.	2.6	11
44	White light reflectance spectroscopy biosensing system for fast quantitative prostate specific antigen determination in forensic samples. <i>Talanta</i> , 2017, 175, 443-450.	5.5	10
45	Protein adsorption/desorption and antibody binding stoichiometry on silicon interferometric biosensors examined with TOF-SIMS. <i>Applied Surface Science</i> , 2018, 444, 187-196.	6.1	10
46	Enhancement of Sensing Properties of Thin Poly(Methyl Methacrylate) Films by VUV Modification. <i>Journal of Laser Micro Nanoengineering</i> , 2007, 2, 200-205.	0.1	10
47	Materials for lithography in the nanoscale. <i>International Journal of Nanotechnology</i> , 2009, 6, 71.	0.2	9
48	Contact pin-printing of albumin-fungicide conjugate for silicon nitride-based sensors biofunctionalization: Multi-technique surface analysis for optimum immunoassay performance. <i>Applied Surface Science</i> , 2017, 410, 79-86.	6.1	9
49	Development of a Point-of-Care System Based on White Light Reflectance Spectroscopy: Application in CRP Determination. <i>Biosensors</i> , 2021, 11, 268.	4.7	9
50	Determination of Acid Diffusion Parameters and Proximity Effect Correction for Highly Dense 0.15 μm Features on SAL-601. <i>Japanese Journal of Applied Physics</i> , 1997, 36, 6562-6571.	1.5	8
51	Vapor-induced swelling of supported methacrylic and siloxane polymer films: Determination of interaction parameters. <i>Journal of Applied Polymer Science</i> , 2010, 116, 184-190.	2.6	8
52	Disposable micro-fabricated electrochemical bismuth sensors for the determination of Tl(I) by stripping voltammetry. <i>Procedia Chemistry</i> , 2009, 1, 1039-1042.	0.7	8
53	Negative (meth)acrylate resist materials based on novel crosslinking chemistry. <i>Microelectronic Engineering</i> , 2001, 57-58, 539-545.	2.4	7
54	Realization and Simulation of High-Aspect-Ratio Micro/Nanostructures by Proton Beam Writing. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 8600-8605.	1.5	7

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55	Disposable microfabricated bismuth microelectrode arrays for trace metal analysis by stripping voltammetry. <i>Procedia Engineering</i> , 2011, 25, 880-883.	1.2	7
56	Fast and Sensitive Determination of the Fungicide Carbendazim in Fruit Juices with an Immunosensor Based on White Light Reflectance Spectroscopy. <i>Biosensors</i> , 2021, 11, 153.	4.7	7
57	Electron-beam lithography on multilayer substrates: experimental and theoretical study. , 1998, , .		6
58	A regenerable flow-through affinity sensor for label-free detection of proteins and DNA. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010, 878, 237-242.	2.3	6
59	Current Progress on Biosensors and Point-of-Care Devices for Sepsis Diagnosis. <i>IEEE Sensors Journal</i> , 2021, 21, 12840-12855.	4.7	6
60	<title>SELID: a new 3D simulator for e-beam lithography</title>. , 1996, , .		5
61	Resist Lithographic Performance Enhancement Based on Solvent Removal Measurements by Optical Interferometry. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 5310-5311.	1.5	5
62	Monolithically-integrated Young interferometers for label-free and multiplexed detection of biomolecules. <i>Proceedings of SPIE</i> , 2016, , .	0.8	5
63	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
64	Fast Deoxynivalenol Determination in Cereals Using a White Light Reflectance Spectroscopy Immunosensor. <i>Biosensors</i> , 2020, 10, 154.	4.7	5
65	Application of a Novel Aqueous Base Developable Resist in Micromachining.. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2001, 14, 445-448.	0.3	4
66	Glass Transition Temperature Monitoring in Bilayer and Patterned Photoresist Films. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 5247-5248.	1.5	4
67	Composite Chemical Sensors Based on Carbon-Filled Patterned Negative Resists. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 6423-6428.	1.5	4
68	Spatially selective biomolecules immobilization on silicon nitride waveguides through contact printing onto plasma treated photolithographic micropattern: Step-by-step analysis with TOF-SIMS chemical imaging. <i>Applied Surface Science</i> , 2020, 506, 145002.	6.1	4
69	Reversible chemocapacitor system based on PDMAEMA polymers for fast sensing of VOCs mixtures. <i>Microelectronic Engineering</i> , 2020, 227, 111304.	2.4	4
70	A Chemocapacitive Sensor Array System for Gas Sensing Applications. <i>Sensor Letters</i> , 2011, 9, 577-583.	0.4	4
71	Gas Sensitivity Amplification of Interdigitated Chemocapacitors Through Etching. <i>IEEE Sensors Journal</i> , 2020, 20, 463-470.	4.7	3
72	Compensation of Temperature Variations in Chemcapacitive Gas Sensing Systems. <i>Sensor Letters</i> , 2012, 10, 736-741.	0.4	3

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73	Monolithically integrated biosensors based on Frequency-Resolved Mach-Zehnder Interferometers for multi-analyte determinations. , 2010, 2010, 298-301.		2
74	Monolithically integrated Mach-Zehnder biosensors for real-time label-free monitoring of biomolecular reactions. , 2011, 2011, 7654-7.		2
75	Evaluation of advanced epoxy novolac resist, EPR, for sub 100nm synchrotron x-ray proximity lithography. Microelectronic Engineering, 1999, 46, 461-464.	2.4	1
76	Off-Line Metrology on SEM Images Using Gray Scale Morphology. Mikrochimica Acta, 2006, 155, 323-326.	5.0	1
77	A flow-through optical sensor system for label-free detection of proteins and DNA. , 2009, , .		1
78	Real-time multi-analyte label-free detection of proteins by white light reflectance spectroscopy. , 2014, , .		1
79	Monolithic optoelectronic chip for label-free multi-analyte sensing applications. , 2014, , .		1
80	Glass transition temperature studies in thin photoresist films with an interferometric method. , 2003, , .		0
81	Photolithographic Process Based on High Contrast Acrylate Photoresist for Multi-Protein Patterning. Materials Research Society Symposia Proceedings, 2006, 950, 1.	0.1	0
82	Simulation of Electron Beam Exposure and Resist Processing for Nano-Patterning. , 2012, , 43-91.		0
83	A miniaturized optoelectronic system for rapid quantitative label-free detection of harmful species in food. Proceedings of SPIE, 2016, , .	0.8	0
84	Design and fabrication of suspended Si ₃ N ₄ nanobeam cavities. Microelectronic Engineering, 2016, 159, 42-45.	2.4	0
85	Interferometry-Based Immunoassays. , 2018, , 241-271.		0