Dimitrios Goustouridis

List of Publications by Year
in descending order

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86	1,383	304602	414303
papers	citations	22 h-index	32 g-index

86	86	86	1425
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nonlocal Effective Medium (NLEM) for Quantitative Modelling of Nanoroughness in Spectroscopic Reflectance. Photonics, 2022, 9, 499.	0.9	1
2	Electromagnetic Shielding and Reflection Loss of Conductive Yarn Incorporated Woven Fabrics at the S and X Radar Bands. Journal of Electronic Materials, 2020, 49, 1579-1587.	1.0	4
3	Fast, sensitive and selective determination of herbicide glyphosate in water samples with a White Light Reflectance Spectroscopy immunosensor. Talanta, 2020, 214, 120854.	2.9	24
4	Multiplexed mycotoxins determination employing white light reflectance spectroscopy and silicon chips with silicon oxide areas of different thickness. Biosensors and Bioelectronics, 2020, 153, 112035.	5.3	21
5	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.	3.2	14
6	Rapid and sensitive label-free determination of aflatoxin M1 levels in milk through a White Light Reflectance Spectroscopy immunosensor. Sensors and Actuators B: Chemical, 2019, 282, 104-111.	4.0	21
7	Rapid C-reactive protein determination in whole blood with a White Light Reflectance Spectroscopy label-free immunosensor for Point-of-Care applications. Sensors and Actuators B: Chemical, 2018, 260, 282-288.	4.0	17
8	Simultaneous determination of paraquat and atrazine in water samples with a white light reflectance spectroscopy biosensor. Journal of Hazardous Materials, 2018, 359, 67-75.	6.5	31
9	Ultrafast Multiplexed-Allergen Detection through Advanced Fluidic Design and Monolithic Interferometric Silicon Chips. Analytical Chemistry, 2018, 90, 9559-9567.	3.2	35
10	Fast label-free detection of C-reactive protein using broad-band Mach-Zehnder interferometers integrated on silicon chips. Talanta, 2017, 165, 458-465.	2.9	24
11	White light reflectance spectroscopy biosensing system for fast quantitative prostate specific antigen determination in forensic samples. Talanta, 2017, 175, 443-450.	2.9	10
12	Fast simultaneous detection of three pesticides by a White Light Reflectance Spectroscopy sensing platform. Sensors and Actuators B: Chemical, 2017, 238, 1214-1223.	4.0	30
13	Development and Bioanalytical Applications of a White Light Reflectance Spectroscopy Label-Free Sensing Platform. Biosensors, 2017, 7, 46.	2.3	17
14	Simultaneous determination of CRP and D-dimer in human blood plasma samples with White Light Reflectance Spectroscopy. Biosensors and Bioelectronics, 2016, 84, 89-96.	5.3	37
15	A wireless sensing system for monitoring the workplace environment of an industrial installation. Sensors and Actuators B: Chemical, 2016, 224, 266-274.	4.0	27
16	Assessment of goat milk adulteration with a label-free monolithically integrated optoelectronic biosensor. Analytical and Bioanalytical Chemistry, 2015, 407, 3995-4004.	1.9	42
17	A label-free flow-through immunosensor for determination of total- and free-PSA in human serum samples based on white-light reflectance spectroscopy. Sensors and Actuators B: Chemical, 2015, 209, 1041-1048.	4.0	21
18	Lithographically tuned one dimensional polymeric photonic crystal arrays. Optics and Laser Technology, 2015, 68, 105-112.	2.2	1

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19	Wireless Sensor Network Based on a Chemocapacitive Sensor Array for the Real-time Monitoring of Industrial Pollutants. Procedia Engineering, 2014, 87, 564-567.	1.2	5
20	Real-time multi-analyte label-free detection of proteins by white light reflectance spectroscopy. , 2014, , .		1
21	Chemocapacitive sensor arrays on Si substrate: Towards the hybrid integration with read-out electronics. Microelectronic Engineering, 2014, 119, 11-15.	1.1	7
22	A miniaturized chemocapacitor system for the detection of volatile organic compounds. Sensors and Actuators B: Chemical, 2013, 177, 776-784.	4.0	14
23	Chemocapacitor performance modeling by means of polymer swelling optical measurements. Sensors and Actuators B: Chemical, 2012, 171-172, 409-415.	4.0	15
24	Evaluation of capacitive surface stress biosensors. Microelectronic Engineering, 2012, 90, 37-39.	1.1	6
25	Compensation of Temperature Variations in Chemcapacitive Gas Sensing Systems. Sensor Letters, 2012, 10, 736-741.	0.4	3
26	Chemocapacitance response simulation through polymer swelling and capacitor modeling. Procedia Engineering, 2011, 25, 423-426.	1.2	2
27	Hybrid integration of microfabricated chemÎ¿capacitor arrays with miniaturized read-out electronics towards low-power gas sensing module. Procedia Engineering, 2011, 25, 1117-1120.	1.2	2
28	A Reconfigurable Multichannel Capacitive Sensor Array Interface. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 3214-3221.	2.4	23
29	Performance simulation, realization and evaluation of capacitive sensor arrays for the real time detection of volatile organic compounds. Microelectronic Engineering, 2011, 88, 2359-2363.	1.1	15
30	Polymer Coated Microfabricated Interdigitated Electrodes Arrays for Gas Sensing Applications. Key Engineering Materials, 2011, 495, 87-90.	0.4	0
31	A Chemocapacitive Sensor Array System for Gas Sensing Applications. Sensor Letters, 2011, 9, 577-583.	0.4	4
32	Vaporâ€induced swelling of supported methacrylic and siloxane polymer films: Determination of interaction parameters. Journal of Applied Polymer Science, 2010, 116, 184-190.	1.3	8
33	A regenerable flow-through affinity sensor for label-free detection of proteins and DNA. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 237-242.	1.2	6
34	Integrated tool for the spreading, thermal treatment and in situ process monitoring of thick photoresist films. Microelectronic Engineering, 2010, 87, 1115-1119.	1.1	0
35	A chemical sensor microarray realized by laser printing of polymers. Sensors and Actuators B: Chemical, 2010, 150, 148-153.	4.0	26
36	Detection of DNA mutations using a capacitive micro-membrane array. Biosensors and Bioelectronics, 2010, 26, 1588-1592.	5.3	19

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37	Must fermentation progress monitoring by polymer coated capacitive vapour sensor arrays. , 2009, , .		1
38	Ultra-miniaturized monolithically integrated polymer coated Si optoelectronic cantilevers for gas sensing applications. , 2009, , .		1
39	Capacitive sensor arrays with controllable deposition of the sensing polymer area for VOCs applications: Design and measurement considerations. Procedia Chemistry, 2009, 1, 176-179.	0.7	3
40	Electrical and optical evaluation of polymer composites for chemical sensing applications. Microelectronic Engineering, 2009, 86, 1289-1292.	1.1	2
41	Detection of the biotinâ€“streptavidin interaction by exploiting surface stress changes on ultrathin Si membranes. Microelectronic Engineering, 2009, 86, 1495-1498.	1.1	16
42	Polymer/BaTiO3 nanocomposites based chemocapacitive sensors. Microelectronic Engineering, 2009, 86, 1286-1288.	1.1	19
43	A novel system for displacement sensing, integrated on a plastic substrate. Microelectronics Journal, 2009, 40, 1387-1392.	1.1	6
44	A flexible capacitive device for pressure and tactile sensing. Procedia Chemistry, 2009, 1, 867-870.	0.7	22
45	Ordering domains of spin cast blends of conjugated and dielectric polymers on surfaces patterned by soft- and photo-lithography. Soft Matter, 2009, 5, 234-241.	1.2	30
46	Demonstration of a new technology which allows direct sensor integration on flexible substrates. EPJ Applied Physics, 2009, 46, 12507.	0.3	8
47	Conceptual Design of a Wireless Strain Monitoring System for Space Applications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 405-410.	0.2	0
48	Aqueous base developable: easy stripping, high aspect ratio negative photoresist for optical and proton beam lithography. Microsystem Technologies, 2008, 14, 1423-1428.	1.2	7
49	Molecular weight and processing effects on the dissolution properties of thin poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	1.1	12
50	Design and fabrication of a Si micromechanical capacitive array for DNA sensing. Microelectronic Engineering, 2008, 85, 1359-1361.	1.1	11
51	Surface nano/micro functionalization of PMMA thin films by 157nm irradiation for sensing applications. Applied Surface Science, 2008, 254, 1710-1719.	3.1	25
52	Liquid phase direct laser printing of polymers for chemical sensing applications. Applied Physics Letters, 2008, 93, .	1.5	67
53	Realization and Simulation of High-Aspect-Ratio Micro/Nanostructures by Proton Beam Writing. Japanese Journal of Applied Physics, 2008, 47, 8600-8605.	0.8	7
54	Composite Chemical Sensors Based on Carbon-Filled Patterned Negative Resists. Japanese Journal of Applied Physics, 2007, 46, 6423-6428.	0.8	4

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55	Modification of Sensing Properties of Thin Polymer Films by VUV Irradiation. , 2007, , .		0
56	Swelling of poly(3-alkylthiophene) films exposed to solvent vapors and humidity: Evaluation of solubility parameters. Synthetic Metals, 2007, 157, 726-732.	2.1	91
57	A Silicon Thermal Accelerometer Without Solid Proof Mass Using Porous Silicon Thermal Isolation. IEEE Sensors Journal, 2007, 7, 983-989.	2.4	31
58	Wireless Measurement System for Capacitive pressure Sensors Using Strain Compensated SiGeB. , 2007, , .		1
59	Humidity and solvent effects in spin-coated polythiopheneâ€“polystyrene blends. Journal of Applied Polymer Science, 2007, 105, 67-79.	1.3	43
60	Sequential polymer lithography for chemical sensor arrays. European Polymer Journal, 2007, 43, 4602-4612.	2.6	11
61	Fabrication of conductometric chemical sensors by photolithography of conductive polymer composites. Microelectronic Engineering, 2007, 84, 1211-1214.	1.1	9
62	Impact of structural parameters on the performance of silicon micromachined capacitive pressure sensors. Sensors and Actuators A: Physical, 2007, 137, 20-24.	2.0	3
63	Single chip interdigitated electrode capacitive chemical sensor arrays. Sensors and Actuators B: Chemical, 2007, 127, 186-192.	4.0	89
64	Vapor sorption in thin supported polymer films studied by white light interferometry. Polymer, 2006, 47, 6117-6122.	1.8	41
65	A thermal convective accelerometer system based on a silicon sensorâ€”Study and packaging. Sensors and Actuators A: Physical, 2006, 132, 147-153.	2.0	16
66	Layer-by-layer UV micromachining methodology of epoxy resist embedded microchannels. Microelectronic Engineering, 2006, 83, 1298-1301.	1.1	14
67	A lithographic polymer process sequence for chemical sensing arrays. Microelectronic Engineering, 2006, 83, 1192-1196.	1.1	14
68	Capacitive pressure sensors and switches fabricated using strain compensated SiGeB. Microelectronic Engineering, 2006, 83, 1209-1211.	1.1	7
69	Metal nano-floating gate memory devices fabricated at low temperature. Microelectronic Engineering, 2006, 83, 1563-1566.	1.1	26
70	Multiwavelength interferometry and competing optical methods for the thermal probing of thin polymeric films. Journal of Applied Polymer Science, 2006, 102, 4764-4774.	1.3	14
71	Combination of integrated thermal flow and capacitive pressure sensors for high sensitivity flow measurements in both laminar and turbulent regions. Journal of Physics: Conference Series, 2005, 10, 277-280.	0.3	0
72	Characterization of polymer films for use in bimorph chemical sensors. Journal of Physics: Conference Series, 2005, 10, 297-300.	0.3	7

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73	Characterization of polymer layers for silicon micromachined bilayer chemical sensors using white light interferometry. Sensors and Actuators B: Chemical, 2005, 111-112, 549-554.	4.0	26
74	A Si/SiGe MOSFET utilizing low-temperature wafer bonding. Microelectronic Engineering, 2005, 78-79, 244-247.	1.1	1
75	Polymeric film characterization for use in bimorph chemical sensors. Microelectronic Engineering, 2005, 78-79, 118-124.	1.1	11
76	Glass Transition Temperature Monitoring in Bilayer and Patterned Photoresist Films. Japanese Journal of Applied Physics, 2004, 43, 5247-5248.	0.8	4
77	Protein patterning by micromachined silicon embossing on polymer surfaces. Applied Physics Letters, 2004, 85, 6418-6420.	1.5	2
78	Effects of hot carrier and irradiation stresses on advanced excimer laser annealed polycrystalline silicon thin film transistors. Microelectronics Reliability, 2004, 44, 1631-1636.	0.9	4
79	Low temperature wafer bonding for thin silicon film transfer. Sensors and Actuators A: Physical, 2004, 110, 401-406.	2.0	16
80	Capacitive-type chemical sensors using thin silicon/polymer bimorph membranes. Sensors and Actuators B: Chemical, 2004, 103, 392-396.	4.0	25
81	Fabrication of single crystal Si cantilevers using a dry release process and application in a capacitive-type humidity sensor. Microelectronic Engineering, 2002, 61-62, 955-961.	1.1	45
82	Parameters influencing the flatness and stability of capacitive pressure sensors fabricated with wafer bonding. Sensors and Actuators A: Physical, 1999, 76, 403-408.	2.0	9
83	Miniaturization of Si diaphragms obtained by wafer bonding. Microelectronic Engineering, 1998, 41-42, 437-440.	1.1	0
84	Ultraminiature silicon capacitive pressure-sensing elements obtained by silicon fusion bonding. Sensors and Actuators A: Physical, 1998, 68, 269-274.	2.0	20
85	A solid-state pressure-sensing microsystem for biomedical applications. Sensors and Actuators A: Physical, 1997, 62, 551-555.	2.0	17
86	A miniature self-aligned pressure sensing element. Journal of Micromechanics and Microengineering, 1996, 6, 33-35.	1.5	12