Dimitrios Goustouridis

List of Publications by Year
in descending order

86	1,383	304368 22	414034 32
papers	citations	h-index	g-index

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

#	Article	IF	Citations
1	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
2	Single chip interdigitated electrode capacitive chemical sensor arrays. Sensors and Actuators B: Chemical, 2007, 127, 186-192.	4.0	89
3	Liquid phase direct laser printing of polymers for chemical sensing applications. Applied Physics Letters, 2008, 93, .	1.5	67
4	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
5	Humidity and solvent effects in spin-coated polythiopheneâ€“polystyrene blends. Journal of Applied Polymer Science, 2007, 105, 67-79.	1.3	43
6	Assessment of goat milk adulteration with a label-free monolithically integrated optoelectronic biosensor. Analytical and Bioanalytical Chemistry, 2015, 407, 3995-4004.	1.9	42
7	Vapor sorption in thin supported polymer films studied by white light interferometry. Polymer, 2006, 47, 6117-6122.	1.8	41
8	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
9	Ultrafast Multiplexed-Allergen Detection through Advanced Fluidic Design and Monolithic Interferometric Silicon Chips. Analytical Chemistry, 2018, 90, 9559-9567.	3.2	35
10	A Silicon Thermal Accelerometer Without Solid Proof Mass Using Porous Silicon Thermal Isolation. IEEE Sensors Journal, 2007, 7, 983-989.	2.4	31
11	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
12	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
13	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
14	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
15	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
16	Metal nano-floating gate memory devices fabricated at low temperature. Microelectronic Engineering, 2006, 83, 1563-1566.	1.1	26
17	A chemical sensor microarray realized by laser printing of polymers. Sensors and Actuators B: Chemical, 2010, 150, 148-153.	4.0	26
18	Capacitive-type chemical sensors using thin silicon/polymer bimorph membranes. Sensors and Actuators B: Chemical, 2004, 103, 392-396.	4.0	25

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19	Surface nano/micro functionalization of PMMA thin films by 157nm irradiation for sensing applications. Applied Surface Science, 2008, 254, 1710-1719.	3.1	25
20	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
21	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
22	A Reconfigurable Multichannel Capacitive Sensor Array Interface. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 3214-3221.	2.4	23
23	A flexible capacitive device for pressure and tactile sensing. Procedia Chemistry, 2009, 1, 867-870.	0.7	22
24	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
25	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
26	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
27	Ultraminiature silicon capacitive pressure-sensing elements obtained by silicon fusion bonding. Sensors and Actuators A: Physical, 1998, 68, 269-274.	2.0	20
28	Polymer/BaTiO3 nanocomposites based chemocapacitive sensors. Microelectronic Engineering, 2009, 86, 1286-1288.	1.1	19
29	Detection of DNA mutations using a capacitive micro-membrane array. Biosensors and Bioelectronics, 2010, 26, 1588-1592.	5.3	19
30	A solid-state pressure-sensing microsystem for biomedical applications. Sensors and Actuators A: Physical, 1997, 62, 551-555.	2.0	17
31	Development and Bioanalytical Applications of a White Light Reflectance Spectroscopy Label-Free Sensing Platform. Biosensors, 2017, 7, 46.	2.3	17
32	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
33	Low temperature wafer bonding for thin silicon film transfer. Sensors and Actuators A: Physical, 2004, 110, 401-406.	2.0	16
34	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
35	Detection of the biotinâ€"streptavidin interaction by exploiting surface stress changes on ultrathin Si membranes. Microelectronic Engineering, 2009, 86, 1495-1498.	1.1	16
36	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

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37	Chemocapacitor performance modeling by means of polymer swelling optical measurements. Sensors and Actuators B: Chemical, 2012, 171-172, 409-415.	4.0	15
38	Layer-by-layer UV micromachining methodology of epoxy resist embedded microchannels. Microelectronic Engineering, 2006, 83, 1298-1301.	1.1	14
39	A lithographic polymer process sequence for chemical sensing arrays. Microelectronic Engineering, 2006, 83, 1192-1196.	1.1	14
40	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
41	A miniaturized chemocapacitor system for the detection of volatile organic compounds. Sensors and Actuators B: Chemical, 2013, 177, 776-784.	4.0	14
42	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
43	A miniature self-aligned pressure sensing element. Journal of Micromechanics and Microengineering, 1996, 6, 33-35.	1.5	12
44	Molecular weight and processing effects on the dissolution properties of thin poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td	1.1	12
45	Polymeric film characterization for use in bimorph chemical sensors. Microelectronic Engineering, 2005, 78-79, 118-124.	1.1	11
46	Sequential polymer lithography for chemical sensor arrays. European Polymer Journal, 2007, 43, 4602-4612.	2.6	11
47	Design and fabrication of a Si micromechanical capacitive array for DNA sensing. Microelectronic Engineering, 2008, 85, 1359-1361.	1.1	11
48	White light reflectance spectroscopy biosensing system for fast quantitative prostate specific antigen determination in forensic samples. Talanta, 2017, 175, 443-450.	2.9	10
49	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
50	Fabrication of conductometric chemical sensors by photolithography of conductive polymer composites. Microelectronic Engineering, 2007, 84, 1211-1214.	1.1	9
51	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
52	Demonstration of a new technology which allows direct sensor integration on flexible substrates. EPJ Applied Physics, 2009, 46, 12507.	0.3	8
53	Characterization of polymer films for use in bimorph chemical sensors. Journal of Physics: Conference Series, 2005, 10, 297-300.	0.3	7
54	Capacitive pressure sensors and switches fabricated using strain compensated SiGeB. Microelectronic Engineering, 2006, 83, 1209-1211.	1.1	7

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55	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
56	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
57	Chemocapacitive sensor arrays on Si substrate: Towards the hybrid integration with read-out electronics. Microelectronic Engineering, 2014, 119, 11-15.	1.1	7
58	A novel system for displacement sensing, integrated on a plastic substrate. Microelectronics Journal, 2009, 40, 1387-1392.	1.1	6
59	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
60	Evaluation of capacitive surface stress biosensors. Microelectronic Engineering, 2012, 90, 37-39.	1.1	6
61	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
62	Glass Transition Temperature Monitoring in Bilayer and Patterned Photoresist Films. Japanese Journal of Applied Physics, 2004, 43, 5247-5248.	0.8	4
63	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
64	Composite Chemical Sensors Based on Carbon-Filled Patterned Negative Resists. Japanese Journal of Applied Physics, 2007, 46, 6423-6428.	0.8	4
65	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
66	A Chemocapacitive Sensor Array System for Gas Sensing Applications. Sensor Letters, 2011, 9, 577-583.	0.4	4
67	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
68	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
69	Compensation of Temperature Variations in Chemcapacitive Gas Sensing Systems. Sensor Letters, 2012, 10, 736-741.	0.4	3
70	Protein patterning by micromachined silicon embossing on polymer surfaces. Applied Physics Letters, 2004, 85, 6418-6420.	1.5	2
71	Electrical and optical evaluation of polymer composites for chemical sensing applications. Microelectronic Engineering, 2009, 86, 1289-1292.	1.1	2
72	Chemocapacitance response simulation through polymer swelling and capacitor modeling. Procedia Engineering, 2011, 25, 423-426.	1.2	2

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73	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
74	A Si/SiGe MOSFET utilizing low-temperature wafer bonding. Microelectronic Engineering, 2005, 78-79, 244-247.	1.1	1
75	Wireless Measurement System for Capacitive pressure Sensors Using Strain Compensated SiGeB. , 2007, , .		1
76	Must fermentation progress monitoring by polymer coated capacitive vapour sensor arrays. , 2009, , .		1
77	Ultra-miniaturized monolithically integrated polymer coated Si optoelectronic cantilevers for gas sensing applications. , 2009, , .		1
78	Real-time multi-analyte label-free detection of proteins by white light reflectance spectroscopy. , 2014, , .		1
79	Lithographically tuned one dimensional polymeric photonic crystal arrays. Optics and Laser Technology, 2015, 68, 105-112.	2.2	1
80	Nonlocal Effective Medium (NLEM) for Quantitative Modelling of Nanoroughness in Spectroscopic Reflectance. Photonics, 2022, 9, 499.	0.9	1
81	Miniaturization of Si diaphragms obtained by wafer bonding. Microelectronic Engineering, 1998, 41-42, 437-440.	1.1	0
82	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
83	Modification of Sensing Properties of Thin Polymer Films by VUV Irradiation. , 2007, , .		0
84	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
85	Polymer Coated Microfabricated Interdigitated Electrodes Arrays for Gas Sensing Applications. Key Engineering Materials, 2011, 495, 87-90.	0.4	0
86	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