Carmen Moldovan

List of Publications by Year
in descending order

49 papers	966 citations	623734 14 h-index	454955 30 g-index
50 all docs	50 docs citations	50 times ranked	1510 citing authors

#	Article	IF	Citations
1	New materials for micro-scale sensors and actuators. Materials Science and Engineering Reports, 2007, 56, 1-129.	31.8	438
2	Acetylcholinesterase voltammetric biosensors based on carbon nanostructure-chitosan composite material for organophosphate pesticides. Materials Science and Engineering C, 2010, 30, 817-821.	7.3	50
3	A quantum dot-based lateral flow immunoassay for the sensitive detection of human heart fatty acid binding protein (hFABP) in human serum. Talanta, 2018, 178, 910-915.	5.5	46
4	A Sensitive capacitive immunosensor for direct detection of human heart fatty acid-binding protein (h-FABP). Talanta, 2015, 132, 37-43.	5.5	41
5	Anisotropic etching of silicon in a complexant redox alkaline system. Sensors and Actuators B: Chemical, 1999, 58, 438-449.	7.8	37
6	Nanostructured SnO₂â€“ZnO composite gas sensors for selective detection of carbon monoxide. Beilstein Journal of Nanotechnology, 2016, 7, 2045-2056.	2.8	34
7	Nitrite electrochemical sensing platform based on tin oxide films. Sensors and Actuators B: Chemical, 2020, 316, 128102.	7.8	32
8	Electrochemical pesticide detection with AutoDip â€“ a portable platform for automation of crude sample analyses. Lab on A Chip, 2015, 15, 704-710.	6.0	26
9	Electrochemical studies of homogeneous self-assembled monolayers versus mixed self-assembled monolayers on gold electrode for â€œlabel freeâ€•detection of heart fatty acid binding protein. Thin Solid Films, 2012, 526, 143-149.	1.8	25
10	Silicon membranes fabrication by wet anisotropic etching. Sensors and Actuators A: Physical, 2002, 99, 104-111.	4.1	24
11	High-quality PMMA/ZnO NWs piezoelectric coating on rigid and flexible metallic substrates. Applied Surface Science, 2020, 529, 147135.	6.1	23
12	Miniaturised MOX based sensors for pollutant and explosive gases detection. Sensors and Actuators B: Chemical, 2017, 249, 647-655.	7.8	21
13	Substrate influence on the response of solâ€“gel derived SnO2 gas-sensors. Thin Solid Films, 2003, 427, 427-431.	1.8	20
14	Platform with biomimetic electrochemical sensors for adiponectin and leptin detection in human serum. Talanta, 2020, 210, 120643.	5.5	19
15	Design and Fabrication of a New Wearable Pressure Sensor for Blood Pressure Monitoring. Sensors, 2021, 21, 2075.	3.8	15
16	A Wearable Low-Power Sensing Platform for Environmental and Health Monitoring: The Convergence Project. Sensors, 2021, 21, 1802.	3.8	12
17	Optical and Piezoelectric Properties of Mn-Doped ZnO Films Deposited by Sol-Gel and Hydrothermal Methods. Journal of Nanomaterials, 2019, 2019, 1-12.	2.7	11
18	Micromachining of a silicon multichannel microprobe for neural electrical activity recording. Sensors and Actuators A: Physical, 2002, 99, 119-124.	4.1	10

#	Article	IF	Citations
19	Silicon micromachined sensor for gas detection. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 101, 227-231.	3.5	8
20	Ceramic Micro Heater Technology for Gas Sensors. , 2006, , .		8
21	Characterization of self-assembled monolayers (SAMs) on silicon substrate comparative with polymer substrate for Escherichia coli O157:H7 detection. Applied Surface Science, 2009, 255, 8953-8959.	6.1	8
22	Sensing Layer for Ni Detection in Water Created by Immobilization of Bioengineered Flagellar Nanotubes on Gold Surfaces. ACS Biomaterials Science and Engineering, 2020, 6, 3811-3820.	5.2	7
23	A New Hybrid Sensitive PANI/SWCNT/Ferrocene-Based Layer for a Wearable CO Sensor. Sensors, 2021, 21, 1801.	3.8	6
24	Experimental Measurements in the Acquisition of Biosignals from a Neuronal Cell Culture for an Exoprosthesis Command. Revista De Chimie (discontinued), 2018, 69, 2948-2939.	0.4	5
25	Resistive Chemosensors for the Detection of CO Based on Conducting Polymers and Carbon Nanocomposites: A Review. Molecules, 2022, 27, 821.	3.8	5
26	Elimination of silicon hillocks using an alkaline complexant etching system. Solid State Sciences, 2001, 3, 1173-1176.	0.7	4
27	Manufacturing of surface micromachined structures for chemical sensors. Thin Solid Films, 2001, 383, 321-324.	1.8	4
28	The etching behavior of APCVD PSG thin films used as sacrificial layers for surface micromachined resonant microstructures. Sensors and Actuators A: Physical, 2002, 99, 82-84.	4.1	4
29	Topography of the Human Ulnar Nerve for Mounting a Neuro-Prosthesis with Sensory Feedback. Revista De Chimie (discontinued), 2018, 69, 2494-2497.	0.4	4
30	ISFET Microsensors HfO2 Based for Biomedical Applications. , 2006, , .		3
31	Technology of a nanowire bioFET device for biomolecules detection. , 2009, , .		3
32	Biosensor Array Based Platform for Pesticide Detection. Sensor Letters, 2013, 11, 1519-1523.	0.4	3
33	Miniaturized Integrated Platform for Electrical and Optical Monitoring of Cell Cultures. Sensors, 2012, 12, 11372-11390.	3.8	2
34	Power Harvesting and Storage Circuit for a Double Array of Lead-Free Piezoelectric Cantilevers. , 2018, , .		2
35	Silicon hillocks elimination using a complexant redox alkaline system. , 1999, , .		1
36	Mixed-monolayers with alkane thiol on gold as substrates for microarray applications. , 2008, , .		1

#	Article	IF	Citations
37	Integrated platform for pesticides detection in food. , 2017, , .		1
38	New system for nitrites and nitrates detection from natural water sources. , 2018, , .		1
39	Integrated Sensor Array Platform for Monitoring Chemical Contaminants in Water Sources. , 2019, , .		1
40	Bidirectional neuroprosthesis system integration. , 2020, , .		1
41	Enzymatic biosensor for insecticides detection. , 2008, , .		0
42	Sensor system for on-line monitoring of cell cultures. , 2009, , .		0
43	Morphological identification through electron microscopy (SEM) and Ellipsometric studies of E.coli O157:H7 cells adsorbed onto surface. , 2011, , .		0
44	Effect of temperature treatments in different atmospheres on the crystallographic orientation and sheet resistance of Pt/Ti films on silicon. , 2017, , .		0
45	Design and Simulation of Piezoelectric Energy Harvester for Aerospace Applications. , 2018, , .		0
46	Piezoelectric 1-D nanostructures for the energy harvesting applications. , 2019, , .		0
47	Micromecanizado mediante lÃ¡seres de femtosegundos de cerÃ¡micas LTCC. FabricaciÃ³n de microcalentadores para un sensor de monÃ³xido de carbono. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2007, 46, 191-196.	1.9	0
48	Silicon Micromachined Sensors for Gas Detection. , 2004, , 409-422.		0
49	Vibrational energy harvesting devices for Structural Health Monitoring â€“ Design optimization. , 2020, , .		0