

# Carmen Moldovan

## List of Publications by Year in descending order

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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	Resistive Chemosensors for the Detection of CO Based on Conducting Polymers and Carbon Nanocomposites: A Review. <i>Molecules</i> , 2022, 27, 821.	3.8	5
2	A Wearable Low-Power Sensing Platform for Environmental and Health Monitoring: The Convergence Project. <i>Sensors</i> , 2021, 21, 1802.	3.8	12
3	Design and Fabrication of a New Wearable Pressure Sensor for Blood Pressure Monitoring. <i>Sensors</i> , 2021, 21, 2075.	3.8	15
4	A New Hybrid Sensitive PANI/SWCNT/Ferrocene-Based Layer for a Wearable CO Sensor. <i>Sensors</i> , 2021, 21, 1801.	3.8	6
5	Platform with biomimetic electrochemical sensors for adiponectin and leptin detection in human serum. <i>Talanta</i> , 2020, 210, 120643.	5.5	19
6	High-quality PMMA/ZnO NWs piezoelectric coating on rigid and flexible metallic substrates. <i>Applied Surface Science</i> , 2020, 529, 147135.	6.1	23
7	Nitrite electrochemical sensing platform based on tin oxide films. <i>Sensors and Actuators B: Chemical</i> , 2020, 316, 128102.	7.8	32
8	Sensing Layer for Ni Detection in Water Created by Immobilization of Bioengineered Flagellar Nanotubes on Gold Surfaces. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3811-3820.	5.2	7
9	Bidirectional neuroprosthesis system integration. , 2020, , .		1
10	Vibrational energy harvesting devices for Structural Health Monitoring " Design optimization. , 2020, , .		0
11	Integrated Sensor Array Platform for Monitoring Chemical Contaminants in Water Sources. , 2019, , .		1
12	Optical and Piezoelectric Properties of Mn-Doped ZnO Films Deposited by Sol-Gel and Hydrothermal Methods. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-12.	2.7	11
13	Piezoelectric 1-D nanostructures for the energy harvesting applications. , 2019, , .		0
14	A quantum dot-based lateral flow immunoassay for the sensitive detection of human heart fatty acid binding protein (hFABP) in human serum. <i>Talanta</i> , 2018, 178, 910-915.	5.5	46
15	Design and Simulation of Piezoelectric Energy Harvester for Aerospace Applications. , 2018, , .		0
16	New system for nitrites and nitrates detection from natural water sources. , 2018, , .		1
17	Power Harvesting and Storage Circuit for a Double Array of Lead-Free Piezoelectric Cantilevers. , 2018, , .		2
18	Experimental Measurements in the Acquisition of Biosignals from a Neuronal Cell Culture for an Exoprosthesis Command. <i>Revista De Chimie (discontinued)</i> , 2018, 69, 2948-2939.	0.4	5

#	ARTICLE	IF	CITATIONS
19	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
20	Miniaturised MOX based sensors for pollutant and explosive gases detection. Sensors and Actuators B: Chemical, 2017, 249, 647-655.	7.8	21
21	Integrated platform for pesticides detection in food. , 2017, , .		1
22	Effect of temperature treatments in different atmospheres on the crystallographic orientation and sheet resistance of Pt/Ti films on silicon. , 2017, , .		0
23	Nanostructured SnO <sub>2</sub> -ZnO composite gas sensors for selective detection of carbon monoxide. Beilstein Journal of Nanotechnology, 2016, 7, 2045-2056.	2.8	34
24	Electrochemical pesticide detection with AutoDip – a portable platform for automation of crude sample analyses. Lab on A Chip, 2015, 15, 704-710.	6.0	26
25	A Sensitive capacitive immunosensor for direct detection of human heart fatty acid-binding protein (h-FABP). Talanta, 2015, 132, 37-43.	5.5	41
26	Biosensor Array Based Platform for Pesticide Detection. Sensor Letters, 2013, 11, 1519-1523.	0.4	3
27	Miniaturized Integrated Platform for Electrical and Optical Monitoring of Cell Cultures. Sensors, 2012, 12, 11372-11390.	3.8	2
28	Electrochemical studies of homogeneous self-assembled monolayers versus mixed self-assembled monolayers on gold electrode for –label free– detection of heart fatty acid binding protein. Thin Solid Films, 2012, 526, 143-149.	1.8	25
29	Morphological identification through electron microscopy (SEM) and Ellipsometric studies of E.coli O157:H7 cells adsorbed onto surface. , 2011, , .		0
30	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
31	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
32	Technology of a nanowire bioFET device for biomolecules detection. , 2009, , .		3
33	Sensor system for on-line monitoring of cell cultures. , 2009, , .		0
34	Mixed-monolayers with alkane thiol on gold as substrates for microarray applications. , 2008, , .		1
35	Enzymatic biosensor for insecticides detection. , 2008, , .		0
36	New materials for micro-scale sensors and actuators. Materials Science and Engineering Reports, 2007, 56, 1-129.	31.8	438

#	ARTICLE	IF	CITATIONS
37	Micromecanizado mediante láseres de femtosegundos de cerámicas LTCC. Fabricación de microcalentadores para un sensor de monóxido de carbono. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2007, 46, 191-196.	1.9	0
38	ISFET Microsensors HfO <sub>2</sub> Based for Biomedical Applications. , 2006, , .		3
39	Ceramic Micro Heater Technology for Gas Sensors. , 2006, , .		8
40	Silicon Micromachined Sensors for Gas Detection. , 2004, , 409-422.		0
41	Substrate influence on the response of sol-gel derived SnO <sub>2</sub> gas-sensors. Thin Solid Films, 2003, 427, 427-431.	1.8	20
42	Silicon micromachined sensor for gas detection. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 101, 227-231.	3.5	8
43	Micromachining of a silicon multichannel microprobe for neural electrical activity recording. Sensors and Actuators A: Physical, 2002, 99, 119-124.	4.1	10
44	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
45	Silicon membranes fabrication by wet anisotropic etching. Sensors and Actuators A: Physical, 2002, 99, 104-111.	4.1	24
46	Elimination of silicon hillocks using an alkaline complexant etching system. Solid State Sciences, 2001, 3, 1173-1176.	0.7	4
47	Manufacturing of surface micromachined structures for chemical sensors. Thin Solid Films, 2001, 383, 321-324.	1.8	4
48	Anisotropic etching of silicon in a complexant redox alkaline system. Sensors and Actuators B: Chemical, 1999, 58, 438-449.	7.8	37
49	Silicon hillocks elimination using a complexant redox alkaline system. , 1999, , .		1