

Yulia G Mourzina

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61
papers

1,501
citations

25
h-index

36
g-index

62
ext. papers

1,678
ext. citations

5.7
avg, IF

4.1
L-index

#	Paper	IF	Citations
61	The light-addressable potentiometric sensor for multi-ion sensing and imaging. <i>Methods</i> , 2005 , 37, 94-102	6.6	118
60	Nanostructured gold microelectrodes for extracellular recording from electrogenic cells. <i>Nanotechnology</i> , 2011 , 22, 265104	3.4	88
59	Development of multisensor systems based on chalcogenide thin film chemical sensors for the simultaneous multicomponent analysis of metal ions in complex solutions. <i>Electrochimica Acta</i> , 2001 , 47, 251-258	6.7	80
58	Ion-selective light-addressable potentiometric sensor (LAPS) with chalcogenide thin film prepared by pulsed laser deposition. <i>Sensors and Actuators B: Chemical</i> , 2001 , 80, 136-140	8.5	59
57	Portable light-addressable potentiometric sensor (LAPS) for multisensor applications. <i>Sensors and Actuators B: Chemical</i> , 2003 , 95, 352-356	8.5	56
56	Can pulsed laser deposition serve as an advanced technique in fabricating chemical sensors?. <i>Sensors and Actuators B: Chemical</i> , 2001 , 78, 273-278	8.5	53
55	Bioelectrochemical systems with oleylamine-stabilized gold nanostructures and horseradish peroxidase for hydrogen peroxide sensor. <i>Biosensors and Bioelectronics</i> , 2014 , 57, 54-8	11.8	49
54	Analyzing the electroactive surface of gold nanopillars by electrochemical methods for electrode miniaturization. <i>Electrochimica Acta</i> , 2008 , 53, 6265-6272	6.7	47
53	Impedance effect of an ion-sensitive membrane: characterisation of an EMIS sensor by impedance spectroscopy, capacitance-voltage and constant-capacitance method. <i>Sensors and Actuators B: Chemical</i> , 2004 , 103, 423-428	8.5	43
52	Copper, cadmium and thallium thin film sensors based on chalcogenide glasses. <i>Analytica Chimica Acta</i> , 2001 , 433, 103-110	6.6	43
51	Features of transport in ultrathin gold nanowire structures. <i>Small</i> , 2013 , 9, 846-52	11	40
50	Suspended nanoporous membranes as interfaces for neuronal biohybrid systems. <i>Nano Letters</i> , 2006 , 6, 453-7	11.5	38
49	Anion-selective light-addressable potentiometric sensors (LAPS) for the determination of nitrate and sulphate ions. <i>Sensors and Actuators B: Chemical</i> , 2003 , 91, 32-38	8.5	36
48	K+-selective field-effect sensors as transducers for bioelectronic applications. <i>Electrochimica Acta</i> , 2003 , 48, 3333-3339	6.7	35
47	Pulsed Laser Deposition [An Innovative Technique for Preparing Inorganic Thin Films. <i>Electroanalysis</i> , 2001 , 13, 727-732	3	32
46	A new thin-film Pb microsensor based on chalcogenide glasses. <i>Sensors and Actuators B: Chemical</i> , 2000 , 71, 13-18	8.5	32
45	Multicomponent thin films for electrochemical sensor applications prepared by pulsed laser deposition. <i>Sensors and Actuators B: Chemical</i> , 2001 , 76, 327-330	8.5	30

44	Influence of Meso-Substitution of the Porphyrin Ring on Enhanced Hydrogen Evolution in a Photochemical System. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13873-13890	3.8	28
43	Immobilization of Urease and Cholinesterase on the Surface of Semiconductor Transducer for the Development of Light-Addressable Potentiometric Sensors. <i>Mikrochimica Acta</i> , 2004 , 144, 41-50	5.8	28
42	A First Step Towards a Microfabricated Thin-Film Sensor Array on the Basis of Chalcogenide Glass Materials. <i>Sensors</i> , 2002 , 2, 356-365	3.8	27
41	Photocurable membranes for ion-selective light-addressable potentiometric sensor. <i>Sensors and Actuators B: Chemical</i> , 2002 , 85, 79-85	8.5	26
40	Probing the effect of surface chemistry on the electrical properties of ultrathin gold nanowire sensors. <i>Nanoscale</i> , 2014 , 6, 5146-55	7.7	25
39	Fabrication of large-scale patterned gold-nanopillar arrays on a silicon substrate using imprinted porous alumina templates. <i>Small</i> , 2006 , 2, 1256-60	11	25
38	The double K ⁺ /Ca ²⁺ sensor based on laser scanned silicon transducer (LSST) for multi-component analysis. <i>Talanta</i> , 2003 , 59, 785-95	6.2	25
37	The evaporated metal masks for chemical glass etching for BioMEMS. <i>Microsystem Technologies</i> , 2005 , 11, 135-140	1.7	25
36	A novel bioelectrochemical interface based on in situ synthesis of gold nanostructures on electrode surfaces and surface activation by Meerwein's salt. A bioelectrochemical sensor for glucose determination. <i>Bioelectrochemistry</i> , 2015 , 105, 34-43	5.6	24
35	Oleylamine-Stabilized Gold Nanostructures for Bioelectronic Assembly. Direct Electrochemistry of Cytochrome c. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13944-13951	3.8	24
34	Patterning chemical stimulation of reconstructed neuronal networks. <i>Analytica Chimica Acta</i> , 2006 , 575, 281-9	6.6	24
33	Capillary zone electrophoresis of amino acids on a hybrid poly(dimethylsiloxane)-glass chip. <i>Electrophoresis</i> , 2005 , 26, 1849-60	3.6	24
32	Chalcogenide-based thin film sensors prepared by pulsed laser deposition technique. <i>Applied Physics A: Materials Science and Processing</i> , 1999 , 69, S803-S805	2.6	24
31	Direct electrochemistry of cyt c and hydrogen peroxide biosensing on oleylamine- and citrate-stabilized gold nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2015 , 207, 1045-1052	8.5	23
30	Inorganic Thin-film Sensor Membranes with PLD-prepared Chalcogenide Glasses: Challenges and Implementation. <i>Sensors</i> , 2004 , 4, 156-162	3.8	23
29	Chemiresistors based on ultrathin gold nanowires for sensing halides, pyridine and dopamine. <i>Sensors and Actuators B: Chemical</i> , 2016 , 232, 420-427	8.5	23
28	Lithium sensor based on the laser scanning semiconductor transducer. <i>Analytica Chimica Acta</i> , 2002 , 459, 1-9	6.6	20
27	The role of oxidative etching in the synthesis of ultrathin single-crystalline Au nanowires. <i>Chemistry - A European Journal</i> , 2011 , 17, 9503-7	4.8	19

26	Electrophoretic separations of neuromediators on microfluidic devices. <i>Talanta</i> , 2006 , 70, 489-98	6.2	18
25	Bimetallic nanowire sensors for extracellular electrochemical hydrogen peroxide detection in HL-1 cell culture. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 1023-1035	2.6	16
24	Electrochemically Induced Ostwald Ripening in Au/TiO ₂ Nanocomposite. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10336-10344	3.8	15
23	Multisensor Systems by Electrochemical Nanowire Assembly for the Analysis of Aqueous Solutions. <i>Frontiers in Chemistry</i> , 2018 , 6, 256	5	15
22	Laser-scanned silicon transducer (LSST) as a multisensor system. <i>Sensors and Actuators B: Chemical</i> , 2004 , 103, 457-462	8.5	14
21	Determination of the Stability Constant of the Intermediate Complex during the Synthesis of Au Nanoparticles Using Aurous Halide. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20143-20147	3.8	11
20	Biomimetic sensor based on Mn(III) meso-tetra(N-methyl-4-pyridyl) porphyrin for non-enzymatic electrocatalytic determination of hydrogen peroxide and as an electrochemical transducer in oxidase biosensor for analysis of biological media. <i>Sensors and Actuators B: Chemical</i> , 2020 , 321, 128437	8.5	11
19	Nonenzymatic determination of glucose on electrodes prepared by directed electrochemical nanowire assembly (DNA). <i>Journal of Analytical Chemistry</i> , 2017 , 72, 371-374	1.1	10
18	Sensing small neurotransmitter-enzyme interaction with nanoporous gated ion-sensitive field effect transistors. <i>Biosensors and Bioelectronics</i> , 2012 , 31, 157-63	11.8	10
17	On Resistance overpotential caused by a potential drop along the ultrathin high aspect ratio gold nanowire electrodes in cyclic voltammetry. <i>Journal of Solid State Electrochemistry</i> , 2016 , 20, 3359-3365	2.6	9
16	Variable resistor made by repeated steps of epitaxial deposition and lithographic structuring of oxide layers by using wet chemical etchants. <i>Thin Solid Films</i> , 2013 , 533, 43-47	2.2	6
15	Towards stabilization of the potential response of Mn(III) tetraphenylporphyrin-based solid-state electrodes with selectivity for salicylate ions. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 2269-2279	2.6	6
14	Large-scale patterning of gold nanopillars in a porous anodic alumina template by replicating gold structures on a titanium barrier. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 1293-6	1.3	6
13	Spatially resolved non-invasive chemical stimulation for modulation of signalling in reconstructed neuronal networks. <i>Journal of the Royal Society Interface</i> , 2006 , 3, 333-43	4.1	6
12	Electrochemical properties and biomimetic activity of water-soluble meso-substituted Mn(III) porphyrin complexes in the electrocatalytic reduction of hydrogen peroxide. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 866, 114159	4.1	6
11	Self-assembly and photoconductivity of binary porphyrin nanostructures of meso-tetrakis(4-sulfonatophenyl)porphine and Co(III) meso-tetra(4-pyridyl)porphine chloride. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 548, 172-178	5.1	5
10	Photoresponsive Porphyrin Nanotubes of -tetra(4-Sulfonatophenyl)Porphyrin and Sn(IV)-tetra(4-pyridyl)porphyrin. <i>Frontiers in Chemistry</i> , 2019 , 7, 351	5	5
9	New membrane material for thallium (I)-selective sensors based on arsenic sulfide glasses. <i>Sensors and Actuators B: Chemical</i> , 2015 , 207, 940-944	8.5	4

8	Activation of gold nanostructures with Meerwein's salt. <i>Mendeleev Communications</i> , 2014 , 24, 145-146	1.9	4
7	In situ fabrication of ultrathin porous alumina and its application for nanopatterning Au nanocrystals on the surface of ion-sensitive field-effect transistors. <i>Nanotechnology</i> , 2012 , 23, 485301	3.4	3
6	Self-assembly of platinum nanoparticles and coordination-driven assembly with porphyrin. <i>RSC Advances</i> , 2015 , 5, 86934-86940	3.7	2
5	Solid-State Thin-Film Sensors Based on Chalcogenide Materials Obtained by Planar Technology and Pulsed Laser Deposition. <i>Russian Journal of Applied Chemistry</i> , 2002 , 75, 351-356	0.8	2
4	Synthesis and Structural Characterization of Ultra-thin Flexible Au Nanowires. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1206, 162901		1
3	Synthesizing Electrodes Into Electrochemical Sensor Systems. <i>Frontiers in Chemistry</i> , 2021 , 9, 641674	5	0
2	Horseradish Peroxidase-Based Biosensors with Different Nanotransducers for the Determination of Hydrogen Peroxide. <i>Journal of Analytical Chemistry</i> , 2021 , 76, 510-517	1.1	0
1	Ultrathin Nanowires: Features of Transport in Ultrathin Gold Nanowire Structures (Small 6/2013). <i>Small</i> , 2013 , 9, 960-960	11	