Yulia G Mourzina

List of Publications by Year in Descending Order

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	Synthesizing Electrodes Into Electrochemical Sensor Systems. *Frontiers in Chemistry*, **2021**, 9, 641674	5	0
60	Horseradish Peroxidase-Based Biosensors with Different Nanotransducers for the Determination of Hydrogen Peroxide. *Journal of Analytical Chemistry*, **2021**, 76, 510-517	1.1	0
59	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. *Sensors and Actuators B: Chemical*, **2020**, 321, 128437	8.5	11
58	Electrochemical properties and biomimetic activity of water-soluble meso-substituted Mn(III) porphyrin complexes in the electrocatalytic reduction of hydrogen peroxide. *Journal of Electroanalytical Chemistry*, **2020**, 866, 114159	4.1	6
57	Photoresponsive Porphyrin Nanotubes of -tetra(4-Sulfonatophenyl)Porphyrin and Sn(IV) -tetra(4-pyridyl)porphyrin. *Frontiers in Chemistry*, **2019**, 7, 351	5	5
56	Self-assembly and photoconductivity of binary porphyrin nanostructures of meso -tetrakis(4-sulfonatophenyl)porphine and Co(III) meso -tetra(4-pyridyl)porphine chloride. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 548, 172-178	5.1	5
55	Bimetallic nanowire sensors for extracellular electrochemical hydrogen peroxide detection in HL-1 cell culture. *Journal of Solid State Electrochemistry*, **2018**, 22, 1023-1035	2.6	16
54	Multisensor Systems by Electrochemical Nanowire Assembly for the Analysis of Aqueous Solutions. *Frontiers in Chemistry*, **2018**, 6, 256	5	15
53	Nonenzymatic determination of glucose on electrodes prepared by directed electrochemical nanowire assembly (DENA). *Journal of Analytical Chemistry*, **2017**, 72, 371-374	1.1	10
52	Towards stabilization of the potential response of Mn(III) tetraphenylporphyrin-based solid-state electrodes with selectivity for salicylate ions. *Journal of Solid State Electrochemistry*, **2017**, 21, 2269-2279	2.6	6
51	Influence of Meso-Substitution of the Porphyrin Ring on Enhanced Hydrogen Evolution in a Photochemical System. *Journal of Physical Chemistry C*, **2016**, 120, 13873-13890	3.8	28
50	On resistance overpotentials caused by a potential drop along the ultrathin high aspect ratio gold nanowire electrodes in cyclic voltammetry. *Journal of Solid State Electrochemistry*, **2016**, 20, 3359-3365	2.6	9
49	Chemiresistors based on ultrathin gold nanowires for sensing halides, pyridine and dopamine. *Sensors and Actuators B: Chemical*, **2016**, 232, 420-427	8.5	23
48	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. *Bioelectrochemistry*, **2015**, 105, 34-43	5.6	24
47	Electrochemically Induced Ostwald Ripening in Au/TiO2 Nanocomposite. *Journal of Physical Chemistry C*, **2015**, 119, 10336-10344	3.8	15
46	Self-assembly of platinum nanoparticles and coordination-driven assembly with porphyrin. *RSC Advances*, **2015**, 5, 86934-86940	3.7	2
45	New membrane material for thallium (I)-selective sensors based on arsenic sulfide glasses. *Sensors and Actuators B: Chemical*, **2015**, 207, 940-944	8.5	4

44	Direct electrochemistry of cyt c and hydrogen peroxide biosensing on oleylamine- and citrate-stabilized gold nanostructures. *Sensors and Actuators B: Chemical*, **2015**, 207, 1045-1052	8.5	23
43	Bioelectrochemical systems with oleylamine-stabilized gold nanostructures and horseradish peroxidase for hydrogen peroxide sensor. *Biosensors and Bioelectronics*, **2014**, 57, 54-8	11.8	49
42	Probing the effect of surface chemistry on the electrical properties of ultrathin gold nanowire sensors. *Nanoscale*, **2014**, 6, 5146-55	7.7	25
41	Activation of gold nanostructures with Meerwein's salt. *Mendeleev Communications*, **2014**, 24, 145-146	1.9	4
40	Oleylamine-Stabilized Gold Nanostructures for Bioelectronic Assembly. Direct Electrochemistry of Cytochrome c. *Journal of Physical Chemistry C*, **2013**, 117, 13944-13951	3.8	24
39	Features of transport in ultrathin gold nanowire structures. *Small*, **2013**, 9, 846-52	11	40
38	Variable resistor made by repeated steps of epitaxial deposition and lithographic structuring of oxide layers by using wet chemical etchants. *Thin Solid Films*, **2013**, 533, 43-47	2.2	6
37	Ultrathin Nanowires: Features of Transport in Ultrathin Gold Nanowire Structures (Small 6/2013). *Small*, **2013**, 9, 960-960	11	
36	Sensing small neurotransmitter-enzyme interaction with nanoporous gated ion-sensitive field effect transistors. *Biosensors and Bioelectronics*, **2012**, 31, 157-63	11.8	10
35	In situ fabrication of ultrathin porous alumina and its application for nanopatterning Au nanocrystals on the surface of ion-sensitive field-effect transistors. *Nanotechnology*, **2012**, 23, 485301	3.4	3
34	Nanostructured gold microelectrodes for extracellular recording from electrogenic cells. *Nanotechnology*, **2011**, 22, 265104	3.4	88
33	Large-scale patterning of gold nanopillars in a porous anodic alumina template by replicating gold structures on a titanium barrier. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 1293-6	1.3	6
32	The role of oxidative etching in the synthesis of ultrathin single-crystalline Au nanowires. *Chemistry - A European Journal*, **2011**, 17, 9503-7	4.8	19
31	Synthesis and Structural Characterization of Ultra-thin Flexible Au Nanowires. *Materials Research Society Symposia Proceedings*, **2009**, 1206, 162901		1
30	Determination of the Stability Constant of the Intermediate Complex during the Synthesis of Au Nanoparticles Using Aurous Halide. *Journal of Physical Chemistry C*, **2009**, 113, 20143-20147	3.8	11
29	Analyzing the electroactive surface of gold nanopillars by electrochemical methods for electrode miniaturization. *Electrochimica Acta*, **2008**, 53, 6265-6272	6.7	47
28	Spatially resolved non-invasive chemical stimulation for modulation of signalling in reconstructed neuronal networks. *Journal of the Royal Society Interface*, **2006**, 3, 333-43	4.1	6
27	Suspended nanoporous membranes as interfaces for neuronal biohybrid systems. *Nano Letters*, **2006**, 6, 453-7	11.5	38

26	Electrophoretic separations of neuromediators on microfluidic devices. *Talanta*, **2006**, 70, 489-98	6.2	18
25	Fabrication of large-scale patterned gold-nanopillar arrays on a silicon substrate using imprinted porous alumina templates. *Small*, **2006**, 2, 1256-60	11	25
24	Patterning chemical stimulation of reconstructed neuronal networks. *Analytica Chimica Acta*, **2006**, 575, 281-9	6.6	24
23	The light-addressable potentiometric sensor for multi-ion sensing and imaging. *Methods*, **2005**, 37, 94-102	4.6	118
22	Capillary zone electrophoresis of amino acids on a hybrid poly(dimethylsiloxane)-glass chip. *Electrophoresis*, **2005**, 26, 1849-60	3.6	24
21	The evaporated metal masks for chemical glass etching for BioMEMS. *Microsystem Technologies*, **2005**, 11, 135-140	1.7	25
20	Inorganic Thin-film Sensor Membranes with PLD-prepared Chalcogenide Glasses: Challenges and Implementation. *Sensors*, **2004**, 4, 156-162	3.8	23
19	Immobilization of Urease and Cholinesterase on the Surface of Semiconductor Transducer for the Development of Light-Addressable Potentiometric Sensors. *Mikrochimica Acta*, **2004**, 144, 41-50	5.8	28
18	Impedance effect of an ion-sensitive membrane: characterisation of an EMIS sensor by impedance spectroscopy, capacitance–voltage and constant-capacitance method. *Sensors and Actuators B: Chemical*, **2004**, 103, 423-428	8.5	43
17	Laser-scanned silicon transducer (LSST) as a multisensor system. *Sensors and Actuators B: Chemical*, **2004**, 103, 457-462	8.5	14
16	K+-selective field-effect sensors as transducers for bioelectronic applications. *Electrochimica Acta*, **2003**, 48, 3333-3339	6.7	35
15	Anion-selective light-addressable potentiometric sensors (LAPS) for the determination of nitrate and sulphate ions. *Sensors and Actuators B: Chemical*, **2003**, 91, 32-38	8.5	36
14	Portable light-addressable potentiometric sensor (LAPS) for multisensor applications. *Sensors and Actuators B: Chemical*, **2003**, 95, 352-356	8.5	56
13	The double K+/Ca2+ sensor based on laser scanned silicon transducer (LSST) for multi-component analysis. *Talanta*, **2003**, 59, 785-95	6.2	25
12	A First Step Towards a Microfabricated Thin-Film Sensor Array on the Basis of Chalcogenide Glass Materials. *Sensors*, **2002**, 2, 356-365	3.8	27
11	Photocurable membranes for ion-selective light-addressable potentiometric sensor. *Sensors and Actuators B: Chemical*, **2002**, 85, 79-85	8.5	26
10	Lithium sensor based on the laser scanning semiconductor transducer. *Analytica Chimica Acta*, **2002**, 459, 1-9	6.6	20
9	Solid-State Thin-Film Sensors Based on Chalcogenide Materials Obtained by Planar Technology and Pulsed Laser Deposition. *Russian Journal of Applied Chemistry*, **2002**, 75, 351-356	0.8	2

8	Multicomponent thin films for electrochemical sensor applications prepared by pulsed laser deposition. *Sensors and Actuators B: Chemical*, **2001**, 76, 327-330	8.5	30
7	Can pulsed laser deposition serve as an advanced technique in fabricating chemical sensors?. *Sensors and Actuators B: Chemical*, **2001**, 78, 273-278	8.5	53
6	Ion-selective light-addressable potentiometric sensor (LAPS) with chalcogenide thin film prepared by pulsed laser deposition. *Sensors and Actuators B: Chemical*, **2001**, 80, 136-140	8.5	59
5	Pulsed Laser Deposition An Innovative Technique for Preparing Inorganic Thin Films. *Electroanalysis*, **2001**, 13, 727-732	3	32
4	Copper, cadmium and thallium thin film sensors based on chalcogenide glasses. *Analytica Chimica Acta*, **2001**, 433, 103-110	6.6	43
3	Development of multisensor systems based on chalcogenide thin film chemical sensors for the simultaneous multicomponent analysis of metal ions in complex solutions. *Electrochimica Acta*, **2001**, 47, 251-258	6.7	80
2	A new thin-film Pb microsensor based on chalcogenide glasses. *Sensors and Actuators B: Chemical*, **2000**, 71, 13-18	8.5	32
1	Chalcogenide-based thin film sensors prepared by pulsed laser deposition technique. *Applied Physics A: Materials Science and Processing*, **1999**, 69, S803-S805	2.6	24