Yulia G Mourzina

List of Publications by Year
in descending order

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62 papers	1,799 citations	201385 27 h-index	276539 41 g-index
62 all docs	62 docs citations	62 times ranked	1782 citing authors

#	Article	IF	Citations
1	The light-addressable potentiometric sensor for multi-ion sensing and imaging. Methods, 2005, 37, 94-102.	1.9	133
2	Nanostructured gold microelectrodes for extracellular recording from electrogenic cells. Nanotechnology, 2011, 22, 265104.	1.3	98
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.	2.6	88
4	Portable light-addressable potentiometric sensor (LAPS) for multisensor applications. Sensors and Actuators B: Chemical, 2003, 95, 352-356.	4.0	71
5	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.	4.0	65
6	Suspended Nanoporous Membranes as Interfaces for Neuronal Biohybrid Systems. Nano Letters, 2006, 6, 453-457.	4.5	58
7	Analyzing the electroactive surface of gold nanopillars by electrochemical methods for electrode miniaturization. Electrochimica Acta, 2008, 53, 6265-6272.	2.6	57
8	Can pulsed laser deposition serve as an advanced technique in fabricating chemical sensors?. Sensors and Actuators B: Chemical, 2001, 78, 273-278.	4.0	56
9	Bioelectrochemical systems with oleylamine-stabilized gold nanostructures and horseradish peroxidase for hydrogen peroxide sensor. Biosensors and Bioelectronics, 2014, 57, 54-58.	5.3	55
10	Copper, cadmium and thallium thin film sensors based on chalcogenide glasses. Analytica Chimica Acta, 2001, 433, 103-110.	2.6	51
11	Impedance effect of an ion-sensitive membrane: characterisation of an EMIS sensor by impedance spectroscopy, capacitanceâ€“voltage and constantâ€“capacitance method. Sensors and Actuators B: Chemical, 2004, 103, 423-428.	4.0	48
12	Features of Transport in Ultrathin Gold Nanowire Structures. Small, 2013, 9, 846-852.	5.2	44
13	K+-selective field-effect sensors as transducers for bioelectronic applications. Electrochimica Acta, 2003, 48, 3333-3339.	2.6	43
14	Anion-selective light-addressable potentiometric sensors (LAPS) for the determination of nitrate and sulphate ions. Sensors and Actuators B: Chemical, 2003, 91, 32-38.	4.0	40
15	A new thin-film Pb microsensor based on chalcogenide glasses. Sensors and Actuators B: Chemical, 2000, 71, 13-18.	4.0	39
16	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.	1.5	38
17	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.	2.5	35
18	Pulsed Laser Deposition - An Innovative Technique for Preparing Inorganic Thin Films. Electroanalysis, 2001, 13, 727-732.	1.5	34

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19	A First Step Towards a Microfabricated Thin-Film Sensor Array on the Basis of Chalcogenide Glass Materials. Sensors, 2002, 2, 356-365.	2.1	33
20	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.	2.4	33
21	Multicomponent thin films for electrochemical sensor applications prepared by pulsed laser deposition. Sensors and Actuators B: Chemical, 2001, 76, 327-330.	4.0	32
22	Capillary zone electrophoresis of amino acids on a hybrid poly(dimethylsiloxane)-glass chip. Electrophoresis, 2005, 26, 1849-1860.	1.3	32
23	Chemiresistors based on ultrathin gold nanowires for sensing halides, pyridine and dopamine. Sensors and Actuators B: Chemical, 2016, 232, 420-427.	4.0	31
24	Photocurable membranes for ion-selective light-addressable potentiometric sensor. Sensors and Actuators B: Chemical, 2002, 85, 79-85.	4.0	30
25	The evaporated metal masks for chemical glass etching for BioMEMS. Microsystem Technologies, 2005, 11, 135-140.	1.2	30
26	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.	4.0	28
27	Inorganic Thin-film Sensor Membranes with PLD-prepared Chalcogenide Glasses: Challenges and Implementation. Sensors, 2004, 4, 156-162.	2.1	27
28	Probing the effect of surface chemistry on the electrical properties of ultrathin gold nanowire sensors. Nanoscale, 2014, 6, 5146-5155.	2.8	27
29	The double K+/Ca2+ sensor based on laser scanned silicon transducer (LSST) for multi-component analysis. Talanta, 2003, 59, 785-795.	2.9	26
30	Fabrication of Large-Scale Patterned Gold-Nanopillar Arrays on a Silicon Substrate Using Imprinted Porous Alumina Templates. Small, 2006, 2, 1256-1260.	5.2	26
31	Oleylamine-Stabilized Gold Nanostructures for Bioelectronic Assembly. Direct Electrochemistry of Cytochrome c. Journal of Physical Chemistry C, 2013, 117, 13944-13951.	1.5	26
32	Patterning chemical stimulation of reconstructed neuronal networks. Analytica Chimica Acta, 2006, 575, 281-289.	2.6	25
33	Bimetallic nanowire sensors for extracellular electrochemical hydrogen peroxide detection in HL-1 cell culture. Journal of Solid State Electrochemistry, 2018, 22, 1023-1035.	1.2	25
34	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.	4.0	25
35	Chalcogenide-based thin film sensors prepared by pulsed laser deposition technique. Applied Physics A: Materials Science and Processing, 1999, 69, S803-S805.	1.1	24
36	Lithium sensor based on the laser scanning semiconductor transducer. Analytica Chimica Acta, 2002, 459, 1-9.	2.6	22

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37	The Role of Oxidative Etching in the Synthesis of Ultrathin Singleâ€Crystalline Au Nanowires. Chemistry - A European Journal, 2011, 17, 9503-9507.	1.7	22
38	Multisensor Systems by Electrochemical Nanowire Assembly for the Analysis of Aqueous Solutions. Frontiers in Chemistry, 2018, 6, 256.	1.8	19
39	Electrophoretic separations of neuromediators on microfluidic devices. Talanta, 2006, 70, 489-498.	2.9	18
40	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.	1.9	18
41	Laser-scanned silicon transducer (LSST) as a multisensor system. Sensors and Actuators B: Chemical, 2004, 103, 457-462.	4.0	16
42	Electrochemically Induced Ostwald Ripening in Au/TiO₂ Nanocomposite. Journal of Physical Chemistry C, 2015, 119, 10336-10344.	1.5	15
43	Nonenzymatic determination of glucose on electrodes prepared by directed electrochemical nanowire assembly (DENA). Journal of Analytical Chemistry, 2017, 72, 371-374.	0.4	14
44	Photoresponsive Porphyrin Nanotubes of Meso-tetra(4-Sulfonatophenyl)Porphyrin and Sn(IV) meso-tetra(4-pyridyl)porphyrin. Frontiers in Chemistry, 2019, 7, 351.	1.8	14
45	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.	1.5	13
46	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.	0.8	12
47	Sensing small neurotransmitterâ€“enzyme interaction with nanoporous gated ion-sensitive field effect transistors. Biosensors and Bioelectronics, 2012, 31, 157-163.	5.3	11
48	On â€œresistance overpotentialâ€•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.	1.2	11
49	New membrane material for thallium (I)-selective sensors based on arsenic sulfide glasses. Sensors and Actuators B: Chemical, 2015, 207, 940-944.	4.0	8
50	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.	1.2	8
51	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.	2.3	8
52	Spatially resolved non-invasive chemical stimulation for modulation of signalling in reconstructed neuronal networks. Journal of the Royal Society Interface, 2006, 3, 333-343.	1.5	7
53	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, 1293-1296.	0.9	7
54	Activation of gold nanostructures with Meerwein's salt. Mendeleev Communications, 2014, 24, 145-146.	0.6	4

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55	Intrinsic Multienzyme-like Activities of the Nanoparticles of Mn and Fe Cyano-Bridged Assemblies. Nanomaterials, 2022, 12, 2095.	1.9	4
56	Title is missing!. Russian Journal of Applied Chemistry, 2002, 75, 351-356.	0.1	3
57	In situfabrication of ultrathin porous alumina and its application for nanopatterning Au nanocrystals on the surface of ion-sensitive field-effect transistors. Nanotechnology, 2012, 23, 485301.	1.3	3
58	Synthesizing Electrodes Into Electrochemical Sensor Systems. Frontiers in Chemistry, 2021, 9, 641674.	1.8	3
59	Horseradish Peroxidase-Based Biosensors with Different Nanotransducers for the Determination of Hydrogen Peroxide. Journal of Analytical Chemistry, 2021, 76, 510-517.	0.4	3
60	Self-assembly of platinum nanoparticles and coordination-driven assembly with porphyrin. RSC Advances, 2015, 5, 86934-86940.	1.7	2
61	Synthesis and Structural Characterization of Ultra-thin Flexible Au Nanowires. Materials Research Society Symposia Proceedings, 2009, 1206, 162901.	0.1	1
62	Ultrathin Nanowires: Features of Transport in Ultrathin Gold Nanowire Structures (Small 6/2013). Small, 2013, 9, 960-960.	5.2	0