

Larisa Florea

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,204
citations

257101

24
h-index

223531

46
g-index

52
all docs

52
docs citations

52
times ranked

3490
citing authors

#	ARTICLE	IF	CITATIONS
1	Glucose Sensing for Diabetes Monitoring: Recent Developments. <i>Sensors</i> , 2017, 17, 1866.	2.1	546
2	Advances in wearable chemical sensor design for monitoring biological fluids. <i>Sensors and Actuators B: Chemical</i> , 2015, 211, 403-418.	4.0	249
3	Spiropyran based hydrogels actuators "Walking in the light. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 608-616.	4.0	105
4	Photoresponsive Polymeric Structures Based on Spiropyran. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 1148-1159.	1.7	102
5	Direct Laser Writing of Four-Dimensional Structural Color Microactuators Using a Photonic Photoresist. <i>ACS Nano</i> , 2020, 14, 9832-9839.	7.3	89
6	Self-protonating spiropyran-co-NIPAM-co-acrylic acid hydrogel photoactuators. <i>Soft Matter</i> , 2013, 9, 8754.	1.2	83
7	Spiropyran Polymeric Microcapillary Coatings for Photodetection of Solvent Polarity. <i>Langmuir</i> , 2013, 29, 2790-2797.	1.6	66
8	Photochemopropulsion " Light Stimulated Movement of Microdroplets. <i>Advanced Materials</i> , 2014, 26, 7339-7345.	11.1	64
9	Photoswitchable Ratchet Surface Topographies Based on Self-Protonating Spiropyran "NIPAAAM Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7268-7274.	4.0	64
10	Thiol-Ene Photo-Click Collagen-PEG Hydrogels: Impact of Water-Soluble Photoinitiators on Cell Viability, Gelation Kinetics and Rheological Properties. <i>Polymers</i> , 2017, 9, 226.	2.0	60
11	Fabrication of soft, stimulus-responsive structures with sub-micron resolution via two-photon polymerization of poly(ionic liquid)s. <i>Materials Today</i> , 2018, 21, 807-816.	8.3	57
12	Dynamic pH mapping in microfluidic devices by integrating adaptive coatings based on polyaniline with colorimetric imaging techniques. <i>Lab on A Chip</i> , 2013, 13, 1079.	3.1	49
13	Moving Droplets in 3D Using Light. <i>Advanced Materials</i> , 2018, 30, e1801821.	11.1	49
14	Big data and machine learning for materials science. <i>Discover Materials</i> , 2021, 1, 12.	1.0	49
15	Synthesis and characterisation of spiropyran-polymer brushes in micro-capillaries: Towards an integrated optical sensor for continuous flow analysis. <i>Sensors and Actuators B: Chemical</i> , 2012, 175, 92-99.	4.0	45
16	Ionic liquid modulation of swelling and LCST behavior of N-isopropylacrylamide polymer gels. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3610.	1.3	33
17	Temperature Responsive 4D Liquid Crystal Microactuators Fabricated by Direct Laser Writing by Two-Photon Polymerization. <i>Small Structures</i> , 2022, 3, 2100158.	6.9	32
18	Self-propelled chemotactic ionic liquid droplets. <i>Chemical Communications</i> , 2015, 51, 2342-2344.	2.2	31

#	ARTICLE	IF	CITATIONS
19	Porous self-protonating spiropyran-based NIPAAm gels with improved reswelling kinetics. <i>Journal of Materials Science</i> , 2016, 51, 1392-1399.	1.7	31
20	Swelling and Shrinking Properties of Thermo-Responsive Polymeric Ionic Liquid Hydrogels with Embedded Linear pNIPAAm. <i>International Journal of Molecular Sciences</i> , 2014, 15, 5337-5349.	1.8	27
21	Poly(Ionic Liquid) Semi-Interpenetrating Network Multi-Responsive Hydrogels. <i>Sensors</i> , 2016, 16, 219.	2.1	27
22	Poly(ionic liquid) thermo-responsive hydrogel microfluidic actuators. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 749-755.	4.0	27
23	Driving flows in microfluidic paper-based analytical devices with a cholinium based poly(ionic liquid) hydrogel. <i>Sensors and Actuators B: Chemical</i> , 2018, 261, 372-378.	4.0	27
24	Paper based electronic tongue – a low-cost solution for the distinction of sugar type and apple juice brand. <i>Analyst</i> , 2019, 144, 2827-2832.	1.7	25
25	Impedance spectroscopy for monosaccharides detection using responsive hydrogel modified paper-based electrodes. <i>Analyst</i> , 2017, 142, 1133-1139.	1.7	24
26	Self-assembled solvato-morphologically controlled photochromic crystals. <i>Chemical Communications</i> , 2014, 50, 924-926.	2.2	20
27	Direct laser writing of vapour-responsive photonic arrays. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11674-11678.	2.7	19
28	Temperature and pH triggered release characteristics of water/fluorescein from 1-ethyl-3-methylimidazolium ethylsulfate based ionogels. <i>Chemical Communications</i> , 2013, 49, 4613.	2.2	17
29	Microcantilever arrays functionalised with spiropyran photoactive moieties as systems to measure photo-induced surface stress changes. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 479-486.	4.0	17
30	Fluorescent Probes for Sugar Detection. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38431-38437.	4.0	16
31	Solvato-morphologically controlled, reversible NIPAAm hydrogel photoactuators. <i>RSC Advances</i> , 2016, 6, 83296-83302.	1.7	15
32	Reusable ionogel-based photo-actuators in a lab-on-a-disc. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 963-970.	4.0	15
33	Electrotactic ionic liquid droplets. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 1069-1075.	4.0	14
34	Micro-Capillary Coatings Based on Spiropyran Polymeric Brushes for Metal Ion Binding, Detection, and Release in Continuous Flow. <i>Sensors</i> , 2018, 18, 1083.	2.1	14
35	Photoswitchable Layer-by-Layer Coatings Based on Photochromic Polynorbornenes Bearing Spiropyran Side Groups. <i>Langmuir</i> , 2018, 34, 4210-4216.	1.6	13
36	Polyaniline coated micro-capillaries for continuous flow analysis of aqueous solutions. <i>Analytica Chimica Acta</i> , 2013, 759, 1-7.	2.6	12

#	ARTICLE	IF	CITATIONS
37	Direct Laser Writing to Generate Molds for Polymer Nanopillar Replication. ACS Applied Polymer Materials, 2020, 2, 3632-3641.	2.0	11
38	Silicon Microcantilever Sensors to Detect the Reversible Conformational Change of a Molecular Switch, Spiropyran. Sensors, 2020, 20, 854.	2.1	11
39	Textile chemiresistors with sensitive layers based on polymer ionic liquids: Applicability for detection of toxic gases and chemical warfare agents. Sensors and Actuators B: Chemical, 2018, 266, 830-840.	4.0	9
40	3D Printed Sugar-Sensing Hydrogels. Macromolecular Rapid Communications, 2020, 41, e1900610.	2.0	8
41	Adaptive coatings based on polyaniline for direct 2D observation of diffusion processes in microfluidic systems. Sensors and Actuators B: Chemical, 2016, 231, 744-751.	4.0	7
42	Dual Droplet Functionality: Phototaxis and Photopolymerization. ACS Applied Materials & Interfaces, 2019, 11, 31484-31489.	4.0	6
43	Photo-Detection of Solvent Polarities using Non-Invasive Coatings in Capillaries. Procedia Engineering, 2011, 25, 1545-1548.	1.2	5
44	Magnetic movement under the spotlight. Science Robotics, 2020, 5, .	9.9	3
45	Opto-Smart Systems in Microfluidics. Advances in Chemical and Materials Engineering Book Series, 2016, , 265-288.	0.2	2
46	Stimuli-Controlled Fluid Control and Microvehicle Movement in Microfluidic Channels. , 2017, , .		1
47	Boronic Acid Homopolymers as Effective Polycations for Sugar-Responsive Layer-by-Layer Assemblies. ACS Applied Polymer Materials, 2019, 1, 990-996.	2.0	1
48	Stimuli-Controlled Manipulation of Synthetic Micrometre-Sized Vehicles for Bio-Inspired Fluidics. Proceedings (mdpi), 2017, 1, .	0.2	0
49	Stimuli-Responsive Materials and Biomimetic Fluidics: Fundamental Building Blocks of Chemical Sensing Platforms with Futuristic Capabilities. Proceedings (mdpi), 2017, 1, 769.	0.2	0
50	Stimuli-Controlled Fluid Control and Microvehicle Movement in Microfluidic Channels. , 2022, , 128-157.		0