

Larisa Florea

List of Publications by Year in Descending Order

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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.

50
papers

1,594
citations

20
h-index

39
g-index

52
ext. papers

1,906
ext. citations

7.3
avg, IF

5.1
L-index

#	Paper	IF	Citations
50	Big data and machine learning for materials science. <i>Discover Materials</i> , 2021 , 1, 12		16
49	Direct laser writing of vapour-responsive photonic arrays. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 11674-11678		11
48	Stimuli-Controlled Fluid Control and Microvehicle Movement in Microfluidic Channels 2021 , 128-128		
47	Magnetic movement under the spotlight. <i>Science Robotics</i> , 2020 , 5,	18.6	1
46	Direct Laser Writing to Generate Molds for Polymer Nanopillar Replication. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 3632-3641	4.3	6
45	Direct Laser Writing of Four-Dimensional Structural Color Microactuators Using a Photonic Photoresist. <i>ACS Nano</i> , 2020 , 14, 9832-9839	16.7	43
44	Silicon Microcantilever Sensors to Detect the Reversible Conformational Change of a Molecular Switch, Spiropyran. <i>Sensors</i> , 2020 , 20,	3.8	7
43	3D Printed Sugar-Sensing Hydrogels. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e1900610	4.8	3
42	Boronic Acid Homopolymers as Effective Polycations for Sugar-Responsive Layer-by-Layer Assemblies. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 990-996	4.3	1
41	Paper based electronic tongue - a low-cost solution for the distinction of sugar type and apple juice brand. <i>Analyst, The</i> , 2019 , 144, 2827-2832	5	20
40	Dual Droplet Functionality: Phototaxis and Photopolymerization. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31484-31489	9.5	2
39	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	8.5	19
38	Textile chemiresistors with sensitive layers based on polymer ionic liquids: Applicability for detection of toxic gases and chemical warfare agents. <i>Sensors and Actuators B: Chemical</i> , 2018 , 266, 830-840	8.5	5
37	Photoswitchable Layer-by-Layer Coatings Based on Photochromic Polynorbornenes Bearing Spiropyran Side Groups. <i>Langmuir</i> , 2018 , 34, 4210-4216	4	11
36	Moving Droplets in 3D Using Light. <i>Advanced Materials</i> , 2018 , 30, e1801821	24	23
35	Micro-Capillary Coatings Based on Spiropyran Polymeric Brushes for Metal Ion Binding, Detection, and Release in Continuous Flow. <i>Sensors</i> , 2018 , 18,	3.8	8
34	Reusable ionogel-based photo-actuators in a lab-on-a-disc. <i>Sensors and Actuators B: Chemical</i> , 2018 , 257, 963-970	8.5	12

33	Fluorescent Probes for Sugar Detection. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38431-38437	9.5	10
32	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	21.8	41
31	Impedance spectroscopy for monosaccharides detection using responsive hydrogel modified paper-based electrodes. <i>Analyst, The</i> , 2017 , 142, 1133-1139	5	19
30	Spiropyran based hydrogels actuators Walking in the light. <i>Sensors and Actuators B: Chemical</i> , 2017 , 250, 608-616	8.5	75
29	Poly(ionic liquid) thermo-responsive hydrogel microfluidic actuators. <i>Sensors and Actuators B: Chemical</i> , 2017 , 247, 749-755	8.5	23
28	Electrotactic ionic liquid droplets. <i>Sensors and Actuators B: Chemical</i> , 2017 , 239, 1069-1075	8.5	13
27	Stimuli-Controlled Fluid Control and Microvehicle Movement in Microfluidic Channels 2017 ,		1
26	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,	4.5	41
25	Stimuli-Controlled Manipulation of Synthetic Micrometre-Sized Vehicles for Bio-Inspired Fluidics. <i>Proceedings (mdpi)</i> , 2017 , 1, 750	0.3	
24	Stimuli-Responsive Materials and Biomimetic Fluidics: Fundamental Building Blocks of Chemical Sensing Platforms with Futuristic Capabilities. <i>Proceedings (mdpi)</i> , 2017 , 1, 769	0.3	
23	Glucose Sensing for Diabetes Monitoring: Recent Developments. <i>Sensors</i> , 2017 , 17,	3.8	369
22	Solvato-morphologically controlled, reversible NIPAAm hydrogel photoactuators. <i>RSC Advances</i> , 2016 , 6, 83296-83302	3.7	11
21	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	8.5	12
20	Porous self-protonating spiropyran-based NIPAAm gels with improved reswelling kinetics. <i>Journal of Materials Science</i> , 2016 , 51, 1392-1399	4.3	29
19	Opto-Smart Systems in Microfluidics. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2016 , 265-288	0.2	1
18	Poly(Ionic Liquid) Semi-Interpenetrating Network Multi-Responsive Hydrogels. <i>Sensors</i> , 2016 , 16, 219	3.8	23
17	Adaptive coatings based on polyaniline for direct 2D observation of diffusion processes in microfluidic systems. <i>Sensors and Actuators B: Chemical</i> , 2016 , 231, 744-751	8.5	6
16	Self-propelled chemotactic ionic liquid droplets. <i>Chemical Communications</i> , 2015 , 51, 2342-4	5.8	26

15	Advances in wearable chemical sensor design for monitoring biological fluids. <i>Sensors and Actuators B: Chemical</i> , 2015 , 211, 403-418	8.5	204
14	Self-assembled solvato-morphologically controlled photochromic crystals. <i>Chemical Communications</i> , 2014 , 50, 924-6	5.8	18
13	Ionic liquid modulation of swelling and LCST behavior of N-isopropylacrylamide polymer gels. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 3610-6	3.6	28
12	Photo-chemopropulsion--light-stimulated movement of microdroplets. <i>Advanced Materials</i> , 2014 , 26, 7339-45	24	50
11	Photoswitchable ratchet surface topographies based on self-protonating spiropyran-NIPAAAM hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 7268-74	9.5	59
10	Swelling and shrinking properties of thermo-responsive polymeric ionic liquid hydrogels with embedded linear pNIPAAAM. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 5337-49	6.3	19
9	Self-protonating spiropyran-co-NIPAM-co-acrylic acid hydrogel photoactuators. <i>Soft Matter</i> , 2013 , 9, 8754	3.6	72
8	Polyaniline coated micro-capillaries for continuous flow analysis of aqueous solutions. <i>Analytica Chimica Acta</i> , 2013 , 759, 1-7	6.6	12
7	Spiropyran polymeric microcapillary coatings for photodetection of solvent polarity. <i>Langmuir</i> , 2013 , 29, 2790-7	4	54
6	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, 1079-85	7.2	38
5	Temperature and pH triggered release characteristics of water/fluorescein from 1-ethyl-3-methylimidazolium ethylsulfate based ionogels. <i>Chemical Communications</i> , 2013 , 49, 4613-5	5.8	15
4	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	8.5	39
3	Photo-Responsive Polymeric Structures Based on Spiropyran. <i>Macromolecular Materials and Engineering</i> , 2012 , 297, 1148-1159	3.9	87
2	Photo-Detection of Solvent Polarities using Non-Invasive Coatings in Capillaries. <i>Procedia Engineering</i> , 2011 , 25, 1545-1548		5
1	Temperature-Responsive 4D Liquid Crystal Microactuators Fabricated by Direct Laser Writing by Two-Photon Polymerization. <i>Small Structures</i> , 2100158	8.7	7