

# Sonia Lanzalaco

## List of Publications by Year in descending order

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26  
papers

859  
citations

687363

13  
h-index

580821

25  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1097  
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly(N-isopropylacrylamide) and Copolymers: A Review on Recent Progresses in Biomedical Applications. <i>Gels</i> , 2017, 3, 36.	4.5	268
2	Chitosan-Derived Nitrogen-Doped Carbon Electrocatalyst for a Sustainable Upgrade of Oxygen Reduction to Hydrogen Peroxide in UV-Assisted Electro-Fenton Water Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14425-14440.	6.7	78
3	Atom Transfer Radical Polymerization with Different Halides (F, Cl, Br, and I): Is the Process "Living" in the Presence of Fluorinated Initiators?. <i>Macromolecules</i> , 2017, 50, 192-202.	4.8	71
4	Synthesis of polymer nanogels by electro-Fenton process: investigation of the effect of main operation parameters. <i>Electrochimica Acta</i> , 2017, 246, 812-822.	5.2	57
5	Crosslinking of poly(vinylpyrrolidone) activated by electrogenerated hydroxyl radicals: A first step towards a simple and cheap synthetic route of nanogel vectors. <i>Electrochemistry Communications</i> , 2016, 62, 64-68.	4.7	48
6	Flexible Electrodes for Supercapacitors Based on the Supramolecular Assembly of Biohydrogel and Conducting Polymer. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1078-1090.	3.1	47
7	H <sub>2</sub> O <sub>2</sub> production at gas-diffusion cathodes made from agarose-derived carbons with different textural properties for acebutolol degradation in chloride media. <i>Journal of Hazardous Materials</i> , 2022, 423, 127005.	12.4	38
8	Polypropylene mesh for hernia repair with controllable cell adhesion/de-adhesion properties. <i>Journal of Materials Chemistry B</i> , 2020, 8, 1049-1059.	5.8	29
9	The mechanism of adhesion and graft polymerization of a PNIPAAm thermoresponsive hydrogel to polypropylene meshes. <i>Soft Matter</i> , 2019, 15, 3432-3442.	2.7	24
10	Polymers and Plastics Modified Electrodes for Biosensors: A Review. <i>Molecules</i> , 2020, 25, 2446.	3.8	23
11	Toward the New Generation of Surgical Meshes with 4D Response: Soft, Dynamic, and Adaptable. <i>Advanced Functional Materials</i> , 2020, 30, 2004145.	14.9	22
12	Facile crosslinking of poly(vinylpyrrolidone) by electro-oxidation with IrO <sub>2</sub> -based anode under potentiostatic conditions. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 1343-1352.	2.9	21
13	Sterilization of macroscopic poly(L-lactic acid) porous scaffolds with dense carbon dioxide: Investigation of the spatial penetration of the treatment and of its effect on the properties of the matrix. <i>Journal of Supercritical Fluids</i> , 2016, 111, 83-90.	3.2	16
14	Smart design for a flexible, functionalized and electroresponsive hybrid platform based on poly(3,4-ethylenedioxythiophene) derivatives to improve cell viability. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8864-8877.	5.8	14
15	Electrochemical multi-sensors obtained by applying an electric discharge treatment to 3D-printed poly(lactic acid). <i>Applied Surface Science</i> , 2022, 597, 153623.	6.1	13
16	Prototyping flexible supercapacitors produced with biohydrogel. <i>Materials Today Communications</i> , 2018, 16, 60-70.	1.9	11
17	Recycled Low-Density Polyethylene for Noninvasive Glucose Monitoring: A Proposal for Plastic Recycling that Adds Technological Value. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12554-12560.	6.7	11
18	Immobilization of glucose oxidase on plasma-treated polyethylene for non-invasive glucose detection. <i>Journal of Electroanalytical Chemistry</i> , 2021, 895, 115509.	3.8	11

#	ARTICLE	IF	CITATIONS
19	Utilization of poly(vinylchloride) and poly(vinylidene fluoride) as macroinitiators for <i>ATRP</i> polymerization of hydroxyethyl methacrylate: Electroanalytical and graft copolymerization studies. <i>Journal of Polymer Science Part A</i> , 2015, 53, 2524-2536.	2.3	10
20	Manufactured Flexible Electrodes for Dopamine Detection: Integration of Conducting Polymer in 3D-Printed Polylactic Acid. <i>Advanced Engineering Materials</i> , 2021, 23, 2100002.	3.5	10
21	Dual-Responsive Polypropylene Meshes Actuating as Thermal and SERS Sensors. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 3329-3340.	5.2	10
22	Cationic ionene as an n-dopant agent of poly(3,4-ethylenedioxythiophene). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9855-9864.	2.8	9
23	Isomeric cationic ionenes as n-dopant agents of poly(3,4-ethylenedioxythiophene) for <i>in situ</i> gelation. <i>Soft Matter</i> , 2018, 14, 6374-6385.	2.7	8
24	Plasma-Functionalized Isotactic Polypropylene Assembled with Conducting Polymers for Bacterial Quantification by NADH Sensing. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100425.	7.6	7
25	Combining 2D organic and 1D inorganic nanoblocks to develop free-standing hybrid nanomembranes for conformable biosensors. <i>Journal of Nanostructure in Chemistry</i> , 2023, 13, 507-517.	9.1	3
26	Effect of interfacial area on heterogeneous free radical grafting of vinyl monomers in supercritical carbon dioxide: Grafting of acrylic acid on poly(vinylidene fluoride) nanoparticles. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	0