Maria C Sportelli

List of Publications by Year in Descending Order

43 papers	813 citations	15 h-index	27 g-index
47 ext. papers	1,013 ext. citations	5 avg, IF	4.34 L-index

#	Paper	IF	Citations
43	Recent advances on the spectroscopic characterization of microbial biofilms: A critical review.. *Analytica Chimica Acta*, **2022**, 1195, 339433	6.6	3
42	Silver-fluoropolymer (Ag-CFX) films: Kinetic study of silver release, and spectroscopic-microscopic insight into the inhibition of P. fluorescens biofilm formation. *Analytica Chimica Acta*, **2022**, 1212, 339892	6.6	1
41	A New Nanocomposite Packaging Based on LASiS-Generated AgNPs for the Preservation of Apple Juice. *Antibiotics*, **2021**, 10,	4.9	2
40	Ag-Based Synergistic Antimicrobial Composites. A Critical Review. *Nanomaterials*, **2021**, 11,	5.4	9
39	Sensing nanoparticle-protein corona using nanoparticle enhanced Laser Induced Breakdown Spectroscopy signal enhancement. *Talanta*, **2021**, 235, 122741	6.2	5
38	ZnO Nanostructures with Antibacterial Properties Prepared by a Green Electrochemical-Thermal Approach. *Nanomaterials*, **2020**, 10,	5.4	6
37	Gold Nanoparticles Synthesis Using Stainless Steel as Solid Reductant: A Critical Overview. *Nanomaterials*, **2020**, 10,	5.4	3
36	Can Nanotechnology and Materials Science Help the Fight against SARS-CoV-2?. *Nanomaterials*, **2020**, 10,	5.4	134
35	Pros and Cons of Sacrificial Anode Electrolysis for the Preparation of Transition Metal Colloids: A Review. *ChemElectroChem*, **2020**, 7, 386-394	4.3	10
34	Novel polyethylene oxide coatings implementing ultra-stable laser-ablated silver nanoparticles. *Applied Surface Science*, **2020**, 507, 145156	6.7	8
33	A new nanocomposite based on LASiS-generated CuNPs as a preservation system for fruit salads. *Food Packaging and Shelf Life*, **2019**, 22, 100422	8.2	10
32	Electrochemical Preparation of Synergistic Nanoantimicrobials. *Molecules*, **2019**, 25,	4.8	14
31	Enhanced stability of organic field-effect transistor biosensors bearing electrosynthesized ZnO nanoparticles. *Sensors and Actuators B: Chemical*, **2018**, 274, 210-217	8.5	17
30	The Pros and Cons of the Use of Laser Ablation Synthesis for the Production of Silver Nano-Antimicrobials. *Antibiotics*, **2018**, 7,	4.9	69
29	New Insights in the Ion Beam Sputtering Deposition of ZnO-Fluoropolymer Nanocomposites. *Applied Sciences (Switzerland)*, **2018**, 8, 77	2.6	7
28	Catalytic Activity of Silicon Nanowires Decorated with Gold and Copper Nanoparticles Deposited by Pulsed Laser Ablation. *Nanomaterials*, **2018**, 8,	5.4	24
27	Exceptionally stable silver nanoparticles synthesized by laser ablation in alcoholic organic solvent. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 559, 148-158	5.1	24

26	Surface analytical characterization of Streptavidin/poly(3-hexylthiophene) bilayers for bio-electronic applications. *Applied Surface Science*, **2017**, 420, 313-322	6.7	9
25	Electrosynthesis of ZnO nanomaterials in aqueous medium with CTAB cationic stabilizer. *Journal of Sol-Gel Science and Technology*, **2017**, 81, 338-345	2.3	7
24	Combined Approach for the Development of Efficient and Safe Nanoantimicrobials: The Case of Nanosilver-Modified Polyurethane Foams. *ACS Biomaterials Science and Engineering*, **2017**, 3, 1417-1425	5.5	12
23	Inhibiting P. fluorescens biofilms with fluoropolymer-embedded silver nanoparticles: an in-situ spectroscopic study. *Scientific Reports*, **2017**, 7, 11870	4.9	16
22	Ionic liquids/ZnO nanoparticles as recyclable catalyst for polycarbonate depolymerization. *Journal of Molecular Catalysis A*, **2017**, 426, 107-116		72
21	Spectroscopic Characterization and Nanosafety of Ag-Modified Antibacterial Leather and Leatherette. *Nanomaterials*, **2017**, 7,	5.4	13
20	Combining inorganic antibacterial# nanophases and essential oils recent findings and prospects **2017**, 279-293		
19	Deposition of morphology-tailored PbS thin films by surfactant-enhanced aerosol assisted chemical vapor deposition. *Materials Science in Semiconductor Processing*, **2016**, 46, 39-45	4.3	36
18	Spectroscopic Characterization of Copper-Chitosan Nanoantimicrobials Prepared by Laser Ablation Synthesis in Aqueous Solutions. *Nanomaterials*, **2016**, 7,	5.4	10
17	Investigation of Industrial Polyurethane Foams Modified with Antimicrobial Copper Nanoparticles. *Materials*, **2016**, 9,	3.5	13
16	Surface characterization of textiles modified by copper and zinc oxide nano-antimicrobials. *Surface and Interface Analysis*, **2016**, 48, 505-508	1.5	13
15	Laser Ablation Synthesis of Hybrid Copper/Silver Nanocolloids for Prospective Application as Nanoantimicrobial Agents for Food Packaging. *MRS Advances*, **2016**, 1, 3735-3740	0.7	7
14	Recent advances in the synthesis and characterization of nano-antimicrobials. *TrAC - Trends in Analytical Chemistry*, **2016**, 84, 131-138	14.6	48
13	Electrosynthesis and characterization of ZnO nanoparticles as inorganic component in organic thin-film transistor active layers. *Electrochimica Acta*, **2015**, 178, 45-54	6.7	19
12	Sn-deficiency in the electrodeposited ternary CuxSnySz thin films by ECALE. *Solar Energy Materials and Solar Cells*, **2015**, 138, 9-16	6.4	13
11	Surface chemical and biological characterization of flax fabrics modified with silver nanoparticles for biomedical applications. *Materials Science and Engineering C*, **2015**, 52, 1-10	8.3	39
10	Shape-control by microwave-assisted hydrothermal method for the synthesis of magnetite nanoparticles using organic additives. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	28
9	Laser Ablation Synthesis in Solution of Nanoantimicrobials for Food Packaging Applications. *Materials Research Society Symposia Proceedings*, **2015**, 1804, 37-42		2

8	Surface Analytical Characterization of P3HT-Streptavidin Bilayers for Biosensing Applications. *Materials Research Society Symposia Proceedings*, **2015**, 1795, 35-40		
7	Nonconventional Routes to Silver Nanoantimicrobials **2015**, 87-105		0
6	Characterization and behaviour of ZnO-based nanocomposites designed for the control of biodeterioration of patrimonial stoneworks. *New Journal of Chemistry*, **2015**, 39, 6836-6843	3.6	25
5	Development of a novel conservation treatment of stone monuments with bioactive nanocomposites. *Heritage Science*, **2015**, 3,	2.5	30
4	Nano-Antimicrobials Based on Metals **2014**, 181-218		3
3	Synthesis and characterization of hybrid copper□hitosan nano-antimicrobials by femtosecond laser-ablation in liquids. *Materials Letters*, **2014**, 136, 397-400	3.3	33
2	Electrosynthesized Polystyrene Sulphonate-Capped Zinc Oxide Nanoparticles as Electrode Modifiers for Sensing Devices. *Materials Research Society Symposia Proceedings*, **2014**, 1675, 15-20		4
1	Ion Beam Sputtering Deposition and Characterization of ZnO-Fluoropolymer Nano-Antimicrobials. *Science of Advanced Materials*, **2014**, 6, 1019-1025	2.3	11