

Rosaria Anna Picca

List of Publications by Citations

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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.

92
papers

2,185
citations

25
h-index

44
g-index

102
ext. papers

2,555
ext. citations

4.9
avg, IF

5.09
L-index

#	Paper	IF	Citations
92	MIP sensors--the electrochemical approach. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 1827-46	4.4	279
91	Can Nanotechnology and Materials Science Help the Fight against SARS-CoV-2?. <i>Nanomaterials</i> , 2020 , 10,	5.4	134
90	Analytical characterization of bioactive fluoropolymer ultra-thin coatings modified by copper nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 381, 607-16	4.4	131
89	Synthesis, analytical characterization and bioactivity of Ag and Cu nanoparticles embedded in poly-vinyl-methyl-ketone films. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 382, 1912-8	4.4	129
88	Development of a sensor prepared by entrapment of MIP particles in electrosynthesised polymer films for electrochemical detection of ephedrine. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1152-6	11.8	106
87	Ionic liquids/ZnO nanoparticles as recyclable catalyst for polycarbonate depolymerization. <i>Journal of Molecular Catalysis A</i> , 2017 , 426, 107-116		72
86	The Pros and Cons of the Use of Laser Ablation Synthesis for the Production of Silver Nano-Antimicrobials. <i>Antibiotics</i> , 2018 , 7,	4.9	69
85	Ultimately Sensitive Organic Bioelectronic Transistor Sensors by Materials and Device Structure Design. <i>Advanced Functional Materials</i> , 2020 , 30, 1904513	15.6	66
84	About the amplification factors in organic bioelectronic sensors. <i>Materials Horizons</i> , 2020 , 7, 999-1013	14.4	56
83	Mechanisms of Nanophase-Induced Desorption in LDI-MS. A Short Review. <i>Nanomaterials</i> , 2017 , 7,	5.4	51
82	Selective single-molecule analytical detection of C-reactive protein in saliva with an organic transistor. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 4899-4908	4.4	48
81	Recent advances in the synthesis and characterization of nano-antimicrobials. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 84, 131-138	14.6	48
80	Ag nanoparticles capped by a nontoxic polymer: Electrochemical and spectroscopic characterization of a novel nanomaterial for glucose detection. <i>Materials Science and Engineering C</i> , 2011 , 31, 606-611	8.3	41
79	Label-Free and Selective Single-Molecule Bioelectronic Sensing with a Millimeter-Wide Self-Assembled Monolayer of Anti-Immunoglobulins. <i>Chemistry of Materials</i> , 2019 , 31, 6476-6483	9.6	40
78	Surface chemical and biological characterization of flax fabrics modified with silver nanoparticles for biomedical applications. <i>Materials Science and Engineering C</i> , 2015 , 52, 1-10	8.3	39
77	X-Ray Photoelectron Spectroscopy characterization of electrosynthesized poly(3-thiophene acetic acid) and its application in Molecularly Imprinted Polymers for atrazine. <i>Thin Solid Films</i> , 2010 , 518, 3705-3709	22	39
76	Deposition of morphology-tailored PbS thin films by surfactant-enhanced aerosol assisted chemical vapor deposition. <i>Materials Science in Semiconductor Processing</i> , 2016 , 46, 39-45	4.3	36

75	Organic Field-Effect Transistor Platform for Label-Free, Single-Molecule Detection of Genomic Biomarkers. <i>ACS Sensors</i> , 2020 , 5, 1822-1830	9.2	33
74	Synthesis and characterization of hybrid copper-chitosan nano-antimicrobials by femtosecond laser-ablation in liquids. <i>Materials Letters</i> , 2014 , 136, 397-400	3.3	33
73	Ag modified ZnS for photocatalytic water pollutants degradation: Influence of metal loading and preparation method. <i>Journal of Colloid and Interface Science</i> , 2019 , 537, 671-681	9.3	32
72	Development of a novel conservation treatment of stone monuments with bioactive nanocomposites. <i>Heritage Science</i> , 2015 , 3,	2.5	30
71	Ultra-low HIV-1 p24 detection limits with a bioelectronic sensor. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 811-818	4.4	29
70	Shape-control by microwave-assisted hydrothermal method for the synthesis of magnetite nanoparticles using organic additives. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	28
69	Light-emitting silicon nanowires obtained by metal-assisted chemical etching. <i>Semiconductor Science and Technology</i> , 2017 , 32, 043004	1.8	25
68	Characterization and behaviour of ZnO-based nanocomposites designed for the control of biodeterioration of patrimonial stoneworks. <i>New Journal of Chemistry</i> , 2015 , 39, 6836-6843	3.6	25
67	Catalytic Activity of Silicon Nanowires Decorated with Gold and Copper Nanoparticles Deposited by Pulsed Laser Ablation. <i>Nanomaterials</i> , 2018 , 8,	5.4	24
66	Exceptionally stable silver nanoparticles synthesized by laser ablation in alcoholic organic solvent. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 559, 148-158	5.1	24
65	Fluorine-thiophene-substituted organic dyes for dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11909	13	23
64	A Study on the Stability of Water-Gated Organic Field-Effect-Transistors Based on a Commercial p-Type Polymer. <i>Frontiers in Chemistry</i> , 2019 , 7, 667	5	20
63	Printed, cost-effective and stable poly(3-hexylthiophene) electrolyte-gated field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15312-15321	7.1	20
62	Electrosynthesis and characterization of ZnO nanoparticles as inorganic component in organic thin-film transistor active layers. <i>Electrochimica Acta</i> , 2015 , 178, 45-54	6.7	19
61	Nonhydrolytic Route to Boron-Doped TiO ₂ Nanocrystals. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 364-374	2.3	19
60	Ion beam sputtering deposition of silver nanoparticles and TiO _x /ZnO nanocomposites for use in surface enhanced vibrational spectroscopy (SERS and SEIRAS). <i>Mikrochimica Acta</i> , 2018 , 185, 153	5.8	17
59	Enhanced stability of organic field-effect transistor biosensors bearing electrosynthesized ZnO nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018 , 274, 210-217	8.5	17
58	Inhibiting <i>P. fluorescens</i> biofilms with fluoropolymer-embedded silver nanoparticles: an in-situ spectroscopic study. <i>Scientific Reports</i> , 2017 , 7, 11870	4.9	16

57	QCM sensors for aqueous phenols based on active layers constituted by tetrapyrrolic macrocycle Langmuir films. <i>Journal of Porphyrins and Phthalocyanines</i> , 2009 , 13, 1129-1139	1.8	16
56	Functionalization of silicon nanowire arrays by silver nanoparticles for the laser desorption ionization mass spectrometry analysis of vegetable oils. <i>Journal of Mass Spectrometry</i> , 2016 , 51, 849-56	2.2	16
55	An easily transferable protocol for in-situ quasi-non-invasive analysis of protein binders in works of art. <i>Talanta</i> , 2020 , 215, 120882	6.2	15
54	Electrochemical Preparation of Synergistic Nanoantimicrobials. <i>Molecules</i> , 2019 , 25,	4.8	14
53	Sn-deficiency in the electrodeposited ternary $Cu_xSn_yS_z$ thin films by ECALE. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 138, 9-16	6.4	13
52	Enhancing the Sensitivity of Biotinylated Surfaces by Tailoring the Design of the Mixed Self-Assembled Monolayer Synthesis. <i>ACS Omega</i> , 2020 , 5, 16762-16771	3.9	13
51	Spectroscopic Characterization and Nanosafety of Ag-Modified Antibacterial Leather and Leatherette. <i>Nanomaterials</i> , 2017 , 7,	5.4	13
50	Investigation of Industrial Polyurethane Foams Modified with Antimicrobial Copper Nanoparticles. <i>Materials</i> , 2016 , 9,	3.5	13
49	Surface characterization of textiles modified by copper and zinc oxide nano-antimicrobials. <i>Surface and Interface Analysis</i> , 2016 , 48, 505-508	1.5	13
48	Combined Approach for the Development of Efficient and Safe Nanoantimicrobials: The Case of Nanosilver-Modified Polyurethane Foams. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1417-1425	5.5	12
47	Ion Beam Sputtering Deposition and Characterization of ZnO-Fluoropolymer Nano-Antimicrobials. <i>Science of Advanced Materials</i> , 2014 , 6, 1019-1025	2.3	11
46	New Hybrid Light Harvesting Antenna Based on Silicon Nanowires and Metal Dendrimers. <i>Advanced Optical Materials</i> , 2020 , 8, 2001070	8.1	11
45	MALDI-TOF mass spectrometry analysis of proteins and lipids in Escherichia coli exposed to copper ions and nanoparticles. <i>Journal of Mass Spectrometry</i> , 2016 , 51, 828-40	2.2	11
44	A new nanocomposite based on LASiS-generated CuNPs as a preservation system for fruit salads. <i>Food Packaging and Shelf Life</i> , 2019 , 22, 100422	8.2	10
43	Reduction of spectral interferences using ultraclean gold nanowire arrays in the LDI-MS analysis of a model peptide. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 4571-83	4.4	10
42	Spectroscopic Characterization of Copper-Chitosan Nanoantimicrobials Prepared by Laser Ablation Synthesis in Aqueous Solutions. <i>Nanomaterials</i> , 2016 , 7,	5.4	10
41	Pros and Cons of Sacrificial Anode Electrolysis for the Preparation of Transition Metal Colloids: A Review. <i>ChemElectroChem</i> , 2020 , 7, 386-394	4.3	10
40	Surface analytical characterization of Streptavidin/poly(3Hexylthiophene) bilayers for bio-electronic applications. <i>Applied Surface Science</i> , 2017 , 420, 313-322	6.7	9

39	Ag-Based Synergistic Antimicrobial Composites. A Critical Review. <i>Nanomaterials</i> , 2021 , 11,	5.4	9
38	Characterization of titanium dioxide nanoparticles imprinted for tyrosine by flow field-flow fractionation and spectrofluorimetric analysis. <i>Inorganica Chimica Acta</i> , 2007 , 360, 1063-1071	2.7	8
37	Organic Dyes Containing A Triple Bond Spacer for Dye Sensitized Solar Cells: A Combined Experimental and Theoretical Investigation. <i>Current Organic Chemistry</i> , 2011 , 15, 3535-3543	1.7	8
36	Novel polyethylene oxide coatings implementing ultra-stable laser-ablated silver nanoparticles. <i>Applied Surface Science</i> , 2020 , 507, 145156	6.7	8
35	Electrosynthesis of ZnO nanomaterials in aqueous medium with CTAB cationic stabilizer. <i>Journal of Sol-Gel Science and Technology</i> , 2017 , 81, 338-345	2.3	7
34	Effect of the Surface Chemical Composition and of Added Metal Cation Concentration on the Stability of Metal Nanoparticles Synthesized by Pulsed Laser Ablation in Water. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4169	2.6	7
33	New Insights in the Ion Beam Sputtering Deposition of ZnO-Fluoropolymer Nanocomposites. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 77	2.6	7
32	Synthesis of a new substituted zinc phthalocyanine as functional monomer in the preparation of MIPs. <i>Journal of Porphyrins and Phthalocyanines</i> , 2006 , 10, 1061-1065	1.8	7
31	Laser Ablation Synthesis of Hybrid Copper/Silver Nanocolloids for Prospective Application as Nanoantimicrobial Agents for Food Packaging. <i>MRS Advances</i> , 2016 , 1, 3735-3740	0.7	7
30	ZnO Nanostructures with Antibacterial Properties Prepared by a Green Electrochemical-Thermal Approach. <i>Nanomaterials</i> , 2020 , 10,	5.4	6
29	Synthesis of a Molecularly Imprinted Polymer for Dioxin. <i>Sensors</i> , 2006 , 6, 915-924	3.8	6
28	The effect of XPS background removing method on the appraisal of Ti and Fe: The case of phlogopites and brookite. <i>American Mineralogist</i> , 2014 , 99, 139-148	2.9	5
27	Tools for the Development of Electrochemical Sensors: an EQCM Flow Cell with Flow Focusing. <i>Electroanalysis</i> , 2012 , 24, 790-797	3	5
26	Electrodeposition and Characterization of p and n Sulfide Semiconductors Composite Thin Film. <i>Journal of the Electrochemical Society</i> , 2016 , 163, D3034-D3039	3.9	5
25	Operando SXRD of E-ALD deposited sulphides ultra-thin films: Crystallite strain and size. <i>Applied Surface Science</i> , 2018 , 432, 53-59	6.7	5
24	Sensing nanoparticle-protein corona using nanoparticle enhanced Laser Induced Breakdown Spectroscopy signal enhancement. <i>Talanta</i> , 2021 , 235, 122741	6.2	5
23	Electrosynthesized Polystyrene Sulphonate-Capped Zinc Oxide Nanoparticles as Electrode Modifiers for Sensing Devices. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1675, 15-20		4
22	Metal-decorated silicon nanowires for laser desorption-ionization mass spectrometry. <i>SPIE Newsroom</i> ,		4

21	Assessment of Gold Bio-Functionalization for Wide-Interface Biosensing Platforms. <i>Sensors</i> , 2020 , 20,	3.8	4
20	Successes and Issues in the Growth of Moad and MoSe ₂ on Ag(111) by the E-ALD Method. <i>Metals</i> , 2019 , 9, 122	2.3	3
19	Gold Nanoparticles Synthesis Using Stainless Steel as Solid Reductant: A Critical Overview. <i>Nanomaterials</i> , 2020 , 10,	5.4	3
18	Nano-Antimicrobials Based on Metals 2014 , 181-218		3
17	Recent advances on the spectroscopic characterization of microbial biofilms: A critical review.. <i>Analytica Chimica Acta</i> , 2022 , 1195, 339433	6.6	3
16	A large-area organic transistor with 3D-printed sensing gate for noninvasive single-molecule detection of pancreatic mucinous cyst markers.. <i>Analytical and Bioanalytical Chemistry</i> , 2022 , 1	4.4	3
15	A label-free immunosensor based on a graphene water-gated field-effect transistor 2019 ,		2
14	Laser Ablation Synthesis in Solution of Nanoantimicrobials for Food Packaging Applications. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1804, 37-42		2
13	A New Nanocomposite Packaging Based on LASiS-Generated AgNPs for the Preservation of Apple Juice. <i>Antibiotics</i> , 2021 , 10,	4.9	2
12	Improved Performance p-type Polymer (P3HT) / n-type Nanotubes (WS ₂) Electrolyte Gated Thin-Film Transistor. <i>MRS Advances</i> , 2018 , 3, 1525-1533	0.7	1
11	Electrical current at micro-/macro-scale of undoped and nitrogen-doped MWPECVD diamond films. <i>Applied Surface Science</i> , 2017 , 426, 456-465	6.7	1
10	Underpotential-Assisted Electrodeposition of Highly Crystalline and Smooth Thin Film of Bismuth. <i>ChemElectroChem</i> , 2020 , 7, 299-305	4.3	1
9	Effect of the ionic-strength of the gating-solution on a bioelectronic response 2019 ,		1
8	Silver-fluoropolymer (Ag-CFX) films: Kinetic study of silver release, and spectroscopic-microscopic insight into the inhibition of <i>P. fluorescens</i> biofilm formation. <i>Analytica Chimica Acta</i> , 2022 , 1212, 339892	6.6	1
7	Nonconventional Routes to Silver Nanoantimicrobials 2015 , 87-105		0
6	Novel Format of Molecularly Imprinted Polymers for the Development of Electrochemical Sensors. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 165-169	0.2	0
5	Negatively charged ions to probe self-assembled monolayer reorganization driven by interchain interactions. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 10935-10943	7.1	0
4	Multi-Technique Characterization of Pictorial Organic Binders on XV Century Polychrome Sculptures by Combining Micro- and Non-Invasive Sampling Approaches. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8017	2.6	0

- 3 Surface Analytical Characterization of P3HT-Streptavidin Bilayers for Biosensing Applications. *Materials Research Society Symposia Proceedings*, **2015**, 1795, 35-40
- 2 Combining inorganic antibacterial# nanophases and essential oils recent findings and prospects **2017**, 279-293
- 1 Development and Spectroscopic Characterization of TeO₂-NWs for Amperometric Detection of H₂O₂. *Lecture Notes in Electrical Engineering*, **2014**, 465-469 0.2