

M Carmen Blanco-López

List of Publications by Year in descending order

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85
papers

3,622
citations

117625

34
h-index

138484

58
g-index

87
all docs

87
docs citations

87
times ranked

4873
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical sensors based on molecularly imprinted polymers. <i>TrAC - Trends in Analytical Chemistry</i> , 2004, 23, 36-48.	11.4	336
2	Characterization of Barium Titanate Powders: Barium Carbonate Identification. <i>Journal of the American Ceramic Society</i> , 1999, 82, 1777-1786.	3.8	173
3	Therapeutic biomaterials based on extracellular vesicles: classification of bioengineering and mimetic preparation routes. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1422676.	12.2	128
4	Composition of gases released during olive stones pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2002, 65, 313-322.	5.5	122
5	Electrochemical sensing with electrodes modified with molecularly imprinted polymer films. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 1922-1928.	3.7	121
6	Silver and gold enhancement methods for lateral flow immunoassays. <i>Talanta</i> , 2016, 148, 272-278.	5.5	115
7	Development of a rapid lateral flow immunoassay test for detection of exosomes previously enriched from cell culture medium and body fluids. <i>Journal of Extracellular Vesicles</i> , 2016, 5, 31803.	12.2	114
8	Voltammetric sensor for vanillylmandelic acid based on molecularly imprinted polymer-modified electrodes. <i>Biosensors and Bioelectronics</i> , 2003, 18, 353-362.	10.1	103
9	Electrochemical capacitor performance of mesoporous carbons obtained by templating technique. <i>Carbon</i> , 2005, 43, 866-870.	10.3	95
10	Characterization of Plasma-Derived Extracellular Vesicles Isolated by Different Methods: A Comparison Study. <i>Bioengineering</i> , 2019, 6, 8.	3.5	94
11	The properties of aqueous phase suspensions of barium titanate. <i>Journal of the European Ceramic Society</i> , 1997, 17, 281-287.	5.7	91
12	Au@Ag SERRS tags coupled to a lateral flow immunoassay for the sensitive detection of pneumolysin. <i>Nanoscale</i> , 2017, 9, 2051-2058.	5.6	91
13	Computational Approach to the Rational Design of Molecularly Imprinted Polymers for Voltammetric Sensing of Homovanillic Acid. <i>Analytical Chemistry</i> , 2005, 77, 6741-6746.	6.5	83
14	Point-of-need simultaneous electrochemical detection of lead and cadmium using low-cost stencil-printed transparency electrodes. <i>Analytica Chimica Acta</i> , 2017, 981, 24-33.	5.4	81
15	Point-of-care detection of extracellular vesicles: Sensitivity optimization and multiple-target detection. <i>Biosensors and Bioelectronics</i> , 2017, 87, 38-45.	10.1	78
16	New materials for analytical biomimetic assays based on affinity and catalytic receptors prepared by molecular imprinting. <i>TrAC - Trends in Analytical Chemistry</i> , 2012, 33, 68-80.	11.4	77
17	Computational predictions and experimental affinity distributions for a homovanillic acid molecularly imprinted polymer. <i>Biosensors and Bioelectronics</i> , 2006, 22, 364-371.	10.1	74
18	Fully Artificial Exosomes: Towards New Theranostic Biomaterials. <i>Trends in Biotechnology</i> , 2018, 36, 10-14.	9.3	71

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19	Voltammetric response of diclofenac-molecularly imprinted film modified carbon electrodes. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 377, 257-261.	3.7	68
20	Magnetic Lateral Flow Immunoassays. <i>Diagnostics</i> , 2020, 10, 288.	2.6	62
21	Immunoassays for scarce tumour-antigens in exosomes: detection of the human NKG2D-Ligand, MICA, in tetraspanin-containing nanovesicles from melanoma. <i>Journal of Nanobiotechnology</i> , 2018, 16, 47.	9.1	60
22	Effect of drug molecular weight on niosomes size and encapsulation efficiency. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 186, 110711.	5.0	58
23	Microemulsion Synthesis of Superparamagnetic Nanoparticles for Bioapplications. <i>International Journal of Molecular Sciences</i> , 2021, 22, 427.	4.1	54
24	Microporous texture of activated carbon fibres prepared from Nomex aramid fibres. <i>Microporous and Mesoporous Materials</i> , 2000, 34, 171-179.	4.4	51
25	The isoelectric point of BaTiO ₃ . <i>Journal of the European Ceramic Society</i> , 2000, 20, 107-118.	5.7	51
26	Electrogeneration of Gold Nanoparticles on Porous-Carbon Paper-Based Electrodes and Application to Inorganic Arsenic Analysis in White Wines by Chronoamperometric Stripping. <i>Analytical Chemistry</i> , 2017, 89, 6415-6423.	6.5	47
27	Paper-based electrochemical transducer modified with nanomaterials for mercury determination in environmental waters. <i>Sensors and Actuators B: Chemical</i> , 2019, 290, 87-92.	7.8	47
28	Extracellular Vesicles: Current Analytical Techniques for Detection and Quantification. <i>Biomolecules</i> , 2020, 10, 824.	4.0	45
29	Preconcentration and sensitive determination of the anti-inflammatory drug diclofenac on a paper-based electroanalytical platform. <i>Analytica Chimica Acta</i> , 2019, 1074, 89-97.	5.4	43
30	Magnetic immunochromatographic test for histamine detection in wine. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 6615-6624.	3.7	41
31	Polymeric stabilisation of aqueous suspensions of barium titanate. Part I: Effect of pH. <i>Journal of the European Ceramic Society</i> , 2000, 20, 1579-1586.	5.7	40
32	Molecularly imprinted catalytic polymers with biomimetic chloroperoxidase activity. <i>Polymer</i> , 2011, 52, 2468-2473.	3.8	38
33	Formulation and Characterization of Taxifolin-Loaded Lipid Nanovesicles (Liposomes, Niosomes, and) <i>Tj ETQq1 1 0.784314 rgBT /Over</i> 122, 1900105.	1.5	36
34	Electrochemical Behavior of Catecholamines and Related Compounds at In Situ Surfactant Modified Carbon Paste Electrodes. <i>Electroanalysis</i> , 2007, 19, 207-213.	2.9	35
35	Preparation and Characterization of a Molecularly Imprinted Microgel for Electrochemical Sensing of 2,4,6-Trichlorophenol. <i>Electroanalysis</i> , 2011, 23, 201-208.	2.9	33
36	Interaction of barium titanate powders with an aqueous suspending medium. <i>Journal of the European Ceramic Society</i> , 1998, 18, 2183-2192.	5.7	32

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37	Integration of gold-sputtered electrofluidic paper on wire-included analytical platforms for glucose biosensing. <i>Biosensors and Bioelectronics</i> , 2017, 91, 824-832.	10.1	32
38	Artificial enzyme-based catalytic sensor for the electrochemical detection of 5-hydroxyindole-3-acetic acid tumor marker in urine. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 688-694.	7.8	29
39	In situ gold-nanoparticle electrogeneration on gold films deposited on paper for non-enzymatic electrochemical determination of glucose. <i>Talanta</i> , 2018, 178, 160-165.	5.5	29
40	Polymeric stabilisation of aqueous suspensions of barium titanate. Part II: Effect of polyelectrolyte concentration. <i>Journal of the European Ceramic Society</i> , 2000, 20, 1587-1594.	5.7	28
41	Determination of Diclofenac in Urine Samples by Molecularly-Imprinted Solid-Phase Extraction and Adsorptive Differential Pulse Voltammetry. <i>Electroanalysis</i> , 2007, 19, 1555-1561.	2.9	28
42	Heterogeneous catalytic 2,4,6-trichlorophenol degradation at heminâ€“acrylic copolymer. <i>Applied Catalysis B: Environmental</i> , 2010, 96, 51-56.	20.2	28
43	Voltammetry of Diclofenac at Graphite, Carbon Composites, and Molecularly Imprinted Polymerâ€“Composite Electrodes. <i>Analytical Letters</i> , 2004, 37, 915-927.	1.8	27
44	Chloroperoxidase Modified Electrode for Amperometric Determination of 2,4,6â€“Trichlorophenol. <i>Electroanalysis</i> , 2009, 21, 1348-1353.	2.9	27
45	Paper-Based Working Electrodes Coated with Mercury or Bismuth Films for Heavy Metals Determination. <i>Biosensors</i> , 2020, 10, 52.	4.7	27
46	Circulating extracellular vesicles as potential biomarkers in chronic fatigue syndrome/myalgic encephalomyelitis: an exploratory pilot study. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1453730.	12.2	26
47	Synthesis of Starch Nanoparticles and Their Applications for Bioactive Compound Encapsulation. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4547.	2.5	26
48	Synthesis of Superparamagnetic Iron Oxide Nanoparticles: SWOT Analysis Towards Their Conjugation to Biomolecules for Molecular Recognition Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 4839-4856.	0.9	22
49	Carbon-Coated Superparamagnetic Nanoflowers for Biosensors Based on Lateral Flow Immunoassays. <i>Biosensors</i> , 2020, 10, 80.	4.7	22
50	Determination of phosphorus in raw materials for ceramics: comparison between X-ray fluorescence spectrometry and inductively coupled plasma-atomic emission spectrometry. <i>Analytica Chimica Acta</i> , 2001, 432, 157-163.	5.4	21
51	Artificial enzyme with magnetic properties and peroxidase activity on indoleamine metabolite tumor marker. <i>Polymer</i> , 2014, 55, 1113-1119.	3.8	20
52	Using Factorial Experimental Design To Prepare Size-Tuned Nanovesicles. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 9164-9175.	3.7	20
53	Flufenamic Acid Determination in Human Serum by Adsorptive Voltammetry with In Situ Surfactant Modified Carbon Paste Electrodes. <i>Electroanalysis</i> , 2005, 17, 1555-1562.	2.9	19
54	Effect of some precursor characteristics on the porous texture of activated carbon fibres prepared from Nomex aramid fibres. <i>Microporous and Mesoporous Materials</i> , 2000, 41, 319-321.	4.4	18

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55	Adsorptive Stripping Voltammetry of Rifamycins at Unmodified and Surfactant-Modified Carbon Paste Electrodes. <i>Electroanalysis</i> , 2004, 16, 1660-1666.	2.9	18
56	Molecularly Imprinted Electrochemical Sensors. , 2012, , 1-34.		18
57	Paper-based electrodes modified with cobalt phthalocyanine colloid for the determination of hydrogen peroxide and glucose. <i>Analyst</i> , The, 2020, 145, 2716-2724.	3.5	18
58	Vitamin D3 Loaded Niosomes and Transfersomes Produced by Ethanol Injection Method: Identification of the Critical Preparation Step for Size Control. <i>Foods</i> , 2020, 9, 1367.	4.3	17
59	Vesicles as antibiotic carrier: State of art. <i>International Journal of Pharmaceutics</i> , 2020, 585, 119478.	5.2	17
60	Scanning Magneto-Inductive Sensor for Quantitative Assay of Prostate-Specific Antigen. <i>IEEE Magnetics Letters</i> , 2017, 8, 1-5.	1.1	16
61	Kinetic study of the oxidative dehalogenation of 2,4,6-trichlorophenol catalyzed by chloroperoxidase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 66, 332-336.	1.8	14
62	Improved magnetic lateral flow assays with optimized nanotags for point-of-use inductive biosensing. <i>Analyst</i> , The, 2020, 145, 5905-5914.	3.5	14
63	Micropipette Tip-Based Immunoassay with Electrochemical Detection of Antitissue Transglutaminase to Diagnose Celiac Disease Using Staples and a Paper-Based Platform. <i>ACS Sensors</i> , 2019, 4, 2679-2687.	7.8	13
64	Cholesterol free niosome production by microfluidics: Comparative with other conventional methods. <i>Chemical Engineering Research and Design</i> , 2020, 162, 162-171.	5.6	13
65	High frequency lateral flow affinity assay using superparamagnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 423, 436-440.	2.3	12
66	Magnetic Lateral Flow Immunoassay for Small Extracellular Vesicles Quantification: Application to Colorectal Cancer Biomarker Detection. <i>Sensors</i> , 2021, 21, 3756.	3.8	12
67	Optimization and characterization of nanostructured paper-based electrodes. <i>Electrochimica Acta</i> , 2018, 265, 717-725.	5.2	9
68	Cu Nanoparticle-Loaded Nanovesicles with Antibiofilm Properties. Part I: Synthesis of New Hybrid Nanostructures. <i>Nanomaterials</i> , 2020, 10, 1542.	4.1	9
69	Hemo-acrylic polymers as catalyst for the oxidative dehalogenation of 2,4,6-trichlorophenol. Chloroperoxidase's mimic imprinting effects. <i>Journal of Molecular Catalysis A</i> , 2012, 353-354, 117-121.	4.8	8
70	Continuous flow production of size-controllable niosomes using a thermostatic microreactor. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 182, 110378.	5.0	8
71	Nanoparticles for bioanalysis. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 1789-1790.	3.7	8
72	Electrodecoration and Characterization of Superparamagnetic Iron Oxide Nanoparticles with Bioactive Synergistic Nanocopper: Magnetic Hyperthermia-Induced Ionic Release for Anti-Biofilm Action. <i>Antibiotics</i> , 2021, 10, 119.	3.7	8

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73	Nano-Encapsulation of Mithramycin in Transfersomes and Polymeric Micelles for the Treatment of Sarcomas. <i>Journal of Clinical Medicine</i> , 2021, 10, 1358.	2.4	8
74	Selected Tetraspanins Functionalized Niosomes as Potential Standards for Exosome Immunoassays. <i>Nanomaterials</i> , 2020, 10, 971.	4.1	8
75	Homemade Bienzymatic-Amperometric Biosensor for Beverages Analysis. <i>Journal of Chemical Education</i> , 2007, 84, 677.	2.3	7
76	Integrated Electrophoresis Separation and Electrochemical Detection in a Paper-based Device. <i>Procedia Technology</i> , 2017, 27, 21-22.	1.1	6
77	Lipid-Polymer Hybrids Encapsulating Iron-Oxide Nanoparticles as a Label for Lateral Flow Immunoassays. <i>Biosensors</i> , 2021, 11, 218.	4.7	3
78	Nanozyme-Based Lateral Flow Immunoassay (LFIA) for Extracellular Vesicle Detection. <i>Biosensors</i> , 2022, 12, 490.	4.7	3
79	Gold Nanostructuring in Paper-based Electrodes. <i>Procedia Technology</i> , 2017, 27, 133-134.	1.1	2
80	Point-of-Use Simultaneous Electrochemical Detection of Lead and Cadmium Using Low-cost Screen-printed Transparency Electrodes. <i>Procedia Technology</i> , 2017, 27, 135-136.	1.1	1
81	Extracellular Vesicles: From Biology to Biomedical Applications. <i>Bioengineering</i> , 2019, 6, 79.	3.5	1
82	Bienzymatic amperometric glucose biosensor. , 2020, , 173-181.		1
83	Synthesis, Characterization and Evaluation of the Antibiofouling Potential of Some Metal and Metal Oxide Nanoparticles. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5864.	2.5	1
84	Carlos D. Garcia, Agustin G. Crevillón, Alberto Escarpa (Eds): Carbon-based nanomaterials in analytical chemistry. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 3219-3220.	3.7	0
85	Biological and Medical Applications of Magnetic Nanoparticles. , 2021, , 771-804.		0