

# Juan M Lázaro-Martá-nez

## List of Publications by Year in descending order

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86  
papers

2,148  
citations

257357

24  
h-index

265120

42  
g-index

87  
all docs

87  
docs citations

87  
times ranked

2712  
citing authors

#	ARTICLE	IF	CITATIONS
1	S- and N-doped carbon quantum dots: Surface chemistry dependent antibacterial activity. Carbon, 2018, 135, 104-111.	5.4	244
2	Carbon dots as fluorescent sensor for detection of explosive nitrocompounds. Carbon, 2016, 106, 171-178.	5.4	117
3	XPS studies on the Cu(I,II) polyampholyte heterogeneous catalyst: An insight into its structure and mechanism. Journal of Molecular Catalysis A, 2011, 339, 43-51.	4.8	98
4	Luminescent carbon nanoparticles: effects of chemical functionalization, and evaluation of Ag+ sensing properties. Journal of Materials Chemistry A, 2014, 2, 8342.	5.2	92
5	Catalyzed Microwave-Assisted Preparation of Carbon Quantum Dots from Lignocellulosic Residues. ACS Sustainable Chemistry and Engineering, 2018, 6, 7200-7205.	3.2	88
6	Carbon Quantum Dot Surface-Chemistry-Dependent Ag Release Governs the High Antibacterial Activity of Ag-Metal-Organic Framework Composites. ACS Applied Bio Materials, 2018, 1, 693-707.	2.3	80
7	Enhancement of the Upconversion Emission by Visible-to-Near-Infrared Fluorescent Graphene Quantum Dots for miRNA Detection. ACS Applied Materials & Interfaces, 2016, 8, 12644-12651.	4.0	73
8	Fingerprint imaging using N-doped carbon dots. Carbon, 2019, 144, 791-797.	5.4	64
9	Carbon dots on based folic acid coated with PAMAM dendrimer as platform for Pt(IV) detection. Journal of Colloid and Interface Science, 2016, 465, 165-173.	5.0	58
10	Studies on the activation of hydrogen peroxide for color removal in the presence of a new Cu(II)-polyampholyte heterogeneous catalyst. Applied Catalysis B: Environmental, 2008, 82, 273-283.	10.8	55
11	Enhanced electrochemical response of carbon quantum dot modified electrodes. Talanta, 2018, 178, 679-685.	2.9	55
12	Magnetic/non-magnetic argan press cake nanocellulose for the selective extraction of sudan dyes in food samples prior to the determination by capillary liquid chromatography. Talanta, 2017, 166, 63-69.	2.9	42
13	Corrosion Resistance of Mild Steel Coated with Organic Material Containing Pyrazol Moiety. Coatings, 2018, 8, 330.	1.2	42
14	Detection of Dopamine in Human Fluids Using N-Doped Carbon Dots. ACS Applied Nano Materials, 2020, 3, 8004-8011.	2.4	39
15	Turning Spent Coffee Grounds into Sustainable Precursors for the Fabrication of Carbon Dots. Nanomaterials, 2020, 10, 1209.	1.9	36
16	Fingerprint detection and using intercalated CdSe nanoparticles on non-porous surfaces. Analytica Chimica Acta, 2014, 812, 228-235.	2.6	35
17	Insights into the formation of N doped 3D-graphene quantum dots. Spectroscopic and computational approach. Journal of Colloid and Interface Science, 2020, 561, 678-686.	5.0	35
18	NMR Characterization of Hydrate and Aldehyde Forms of Imidazole-2-carboxaldehyde and Derivatives. Journal of Organic Chemistry, 2010, 75, 3208-3213.	1.7	32

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19	Dermatan sulfate/chitosan polyelectrolyte complex with potential application in the treatment and diagnosis of vascular disease. <i>Carbohydrate Polymers</i> , 2016, 144, 362-370.	5.1	30
20	Influence of pH, layer charge location and crystal thickness distribution on U(VI) sorption onto heterogeneous dioctahedral smectite. <i>Journal of Hazardous Materials</i> , 2016, 317, 246-258.	6.5	28
21	Synthesis, FTIR, solid-state NMR and SEM studies of novel polyampholytes or polyelectrolytes obtained from EGDE, MAA and imidazoles. <i>European Polymer Journal</i> , 2008, 44, 392-407.	2.6	27
22	New Insights about the Selectivity in the Activation of Hydrogen Peroxide by Cobalt or Copper Hydrogel Heterogeneous Catalysts in the Generation of Reactive Oxygen Species. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29332-29347.	1.5	27
23	New copper(II) complexes of polyampholyte and polyelectrolyte polymers: Solid-state NMR, FTIR, XRPD and thermal analyses. <i>Polymer</i> , 2008, 49, 5482-5489.	1.8	26
24	Sustainable Production of Carbon Nanoparticles from Olive Pit Biomass: Understanding Proton Transfer in the Excited State on Carbon Dots. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10493-10500.	3.2	26
25	P-doped carbon nano-powders for fingerprint imaging. <i>Talanta</i> , 2019, 194, 150-157.	2.9	26
26	Solid-state Studies of the Crystalline/Amorphous Character in Linear Poly(ethylenimine) Tj ETQqO O O rgBT /Overlock 10 Tf 50 462	2.2	25
27	Thiabendazole adsorption on montmorillonite, octadecyltrimethylammonium- and Acremonium sp.-loaded products and their copper complexes. <i>Chemical Engineering Journal</i> , 2017, 320, 11-21.	6.6	25
28	Synthesis and sorption properties of a polyampholyte. <i>Reactive and Functional Polymers</i> , 2008, 68, 169-181.	2.0	23
29	Synthesis and characterization of novel polyampholyte and polyelectrolyte polymers containing imidazole, triazole or pyrazole. <i>Polymer</i> , 2012, 53, 1288-1297.	1.8	23
30	Generation and Stability of the gem-Diol Forms in Imidazole Derivatives Containing Carbonyl Groups. Solid-State NMR and Single-Crystal X-ray Diffraction Studies. <i>Journal of Physical Chemistry A</i> , 2018, 122, 601-609.	1.1	23
31	Modification of electrodes with N-and S-doped carbon dots. Evaluation of the electrochemical response. <i>Talanta</i> , 2020, 212, 120806.	2.9	23
32	Comprehensive Insight from Phthalates Occurrence: From Health Outcomes to Emerging Analytical Approaches. <i>Toxics</i> , 2021, 9, 157.	1.6	21
33	Thermo-responsive microgels based on encapsulated carbon quantum dots. <i>New Journal of Chemistry</i> , 2017, 41, 4835-4842.	1.4	19
34	Fluorescent responsive chlorophyllide-hydrogel for carbon dioxide detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 905-911.	4.0	18
35	Interaction of Carbohydrate Coated Cerium-Oxide Nanoparticles with Wheat and Pea: Stress Induction Potential and Effect on Development. <i>Plants</i> , 2019, 8, 478.	1.6	18
36	Chemically heterogeneous carbon dots enhanced cholesterol detection by MALDI TOF mass spectrometry. <i>Journal of Colloid and Interface Science</i> , 2021, 591, 373-383.	5.0	18

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37	Heterogeneous acid catalysts prepared by immobilization of H <sub>3</sub> PW <sub>12</sub> O <sub>40</sub> on silica through impregnation and inclusion, applied to the synthesis of 3H-1,5-benzodiazepines. <i>Molecular Catalysis</i> , 2020, 485, 110842.	1.0	17
38	Nitrene formation is the first step of the thermal and photochemical decomposition reactions of organic azides. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 5109-5115.	1.3	17
39	Insights into the coordination sphere of copper ion in polymers containing carboxylic acid and azole groups. <i>Polymer</i> , 2013, 54, 5214-5221.	1.8	16
40	gem-Diol and Hemiacetal Forms in Formylpyridine and Vitamin-B6-Related Compounds: Solid-State NMR and Single-Crystal X-ray Diffraction Studies. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7778-7785.	1.1	16
41	Assessment of Graphitized Coal Ash Char Concentrates as a Potential Synthetic Graphite Source. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 986.	0.8	16
42	Transfection of bovine fetal fibroblast with polyethylenimine (PEI) nanoparticles: effect of particle size and presence of fetal bovine serum on transgene delivery and cytotoxicity. <i>Cytotechnology</i> , 2017, 69, 655-665.	0.7	15
43	Lactoferrin purification and whey protein isolate recovery from cheese whey using chitosan mini-spheres. <i>International Dairy Journal</i> , 2020, 109, 104764.	1.5	15
44	Acid functionalized coal fly ashes: New solid catalysts for levulinic acid esterification. <i>Catalysis Today</i> , 2020, 357, 74-83.	2.2	14
45	Activation of H <sub>2</sub> O <sub>2</sub> and superoxide production using a novel cobalt complex based on a polyampholyte. <i>Applied Catalysis A: General</i> , 2013, 467, 342-354.	2.2	13
46	Synthesis, Characterization, and Catalytic Properties of Cationic Hydrogels Containing Copper(II) and Cobalt(II) Ions. <i>Langmuir</i> , 2014, 30, 2903-2913.	1.6	13
47	Targeted anti-inflammatory peptide delivery in injured endothelial cells using dermatan sulfate/chitosan nanomaterials. <i>Carbohydrate Polymers</i> , 2020, 230, 115610.	5.1	13
48	Insights into the formation of an emissive CdTe-quantum-dots/cellulose hybrid film. <i>Journal of Colloid and Interface Science</i> , 2020, 579, 714-722.	5.0	13
49	Inhalable Mannosylated Rifampicin-Curcumin Co-Loaded Nanomicelles with Enhanced In Vitro Antimicrobial Efficacy for an Optimized Pulmonary Tuberculosis Therapy. <i>Pharmaceutics</i> , 2022, 14, 959.	2.0	13
50	Insights into the Thermal and Photochemical Reaction Mechanisms of Azidoacetonitrile. Spectroscopic and MS-CASPT2 Calculations. <i>ChemPhysChem</i> , 2020, 21, 1126-1133.	1.0	12
51	Electronic Structure of Nitrobenzene: A Benchmark Example of the Accuracy of the Multi-State CASPT2 Theory. <i>Journal of Physical Chemistry A</i> , 2021, 125, 9431-9437.	1.1	12
52	Development and characterization of a new polyampholyte-surfactant complex applied to the solid phase extraction of bisphenol-A. <i>Talanta</i> , 2009, 80, 789-796.	2.9	11
53	Sulfanilic acid-modified chitosan mini-spheres and their application for lysozyme purification from egg white. <i>Biotechnology Progress</i> , 2018, 34, 387-396.	1.3	11
54	Synthesis of a cross-linked cellulose-based amine polymer and its application in wastewater purification. <i>Environmental Science and Pollution Research</i> , 2019, 26, 28080-28091.	2.7	11

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55	Evaluation of the Occurrence of Phthalates in Plastic Materials Used in Food Packaging. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2130.	1.3	11
56	An Active Surface Preservation Strategy for the Rational Development of Carbon Dots as pH-Responsive Fluorescent Nanosensors. <i>Chemosensors</i> , 2021, 9, 191.	1.8	11
57	Insights into the Photodecomposition of Azidomethyl Methyl Sulfide: A $S_{2\text{S}}/S_{1\text{S}}$ Conical Intersection on Nitrene Potential Energy Surfaces Leading to the Formation of <i>i</i> -S-Methyl- <i>N</i> -sulfenylmethanimine. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1911-1921.	1.1	10
58	P120-Catenin Regulates Early Trafficking Stages of the N-Cadherin Precursor Complex. <i>PLoS ONE</i> , 2016, 11, e0156758.	1.1	9
59	Linear polyethylenimine-decorated gold nanoparticles: One-step electrodeposition and studies of interaction with viral and animal proteins. <i>Electrochimica Acta</i> , 2019, 301, 126-135.	2.6	9
60	Detection of Ru potential metallodrug in human urine by MALDI-TOF mass spectrometry: Validation and options to enhance the sensitivity. <i>Talanta</i> , 2021, 222, 121551.	2.9	9
61	Paramagnetic solid-state NMR assignment and novel chemical conversion of the aldehyde group to dihydrogen <i>ortho</i> ester and hemiacetal moieties in copper( $\text{II}$ )- and cobalt( $\text{II}$ )-pyridinecarboxaldehyde complexes. <i>RSC Advances</i> , 2021, 11, 20216-20231.	1.7	9
62	Paclitaxel and curcumin co-loaded mixed micelles: Improving in vitro efficacy and reducing toxicity against Abraxane <sup>®</sup> . <i>Journal of Drug Delivery Science and Technology</i> , 2021, 62, 102343.	1.4	9
63	Synthesis of Water-Soluble Oligomers From Imidazole, Ethyleneglycol Diglycidyl Ether, and Methacrylic Acid. An Insight Into the Chemical Structure, Aggregation Behavior and Formation of Hollow Spheres. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 167-181.	1.7	8
64	Dispersed synthesis of uniform Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles via in situ decomposition of iron precursor along cotton fibre for Sudan dyes analysis in food samples. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2017, 34, 1853-1862.	1.1	8
65	Calcium alginate beads reinforced with synthetic oligomers, linear polyethylenimine and Cu(II): structural stability and potential applications. <i>Cellulose</i> , 2018, 25, 1657-1672.	2.4	8
66	pH and ion-selective swelling behaviour of keratin and keratose 3D hydrogels. <i>European Polymer Journal</i> , 2019, 118, 1-9.	2.6	8
67	Development and characterization of a polyampholyte-based reactor immobilizing soybean seed coat peroxidase for analytical applications in a flow system. <i>Biochemical Engineering Journal</i> , 2011, 58-59, 57-68.	1.8	7
68	Estimation of carbon dots amelioration of copper toxicity in maize studied by synchrotron radiation-FTIR. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 204, 111828.	2.5	7
69	Solid-State Characterization of Acetylpyridine Copper Complexes for the Activation of $H_{2O_{2}}$ in Advanced Oxidation Processes. <i>ChemPlusChem</i> , 2022, 87, .	1.3	7
70	Kinetic and equilibrium adsorption of two post-harvest fungicides onto copper-exchanged montmorillonite: synergic and antagonistic effects of both fungicides <sup>™</sup> presence. <i>Environmental Science and Pollution Research</i> , 2019, 26, 2421-2434.	2.7	6
71	SR-FTIR spectro-microscopic interaction study of biochemical changes in HeLa cells induced by Levan-C60, Pullulan-C60, and their cholesterol-derivatives. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 2541-2549.	3.6	6
72	Discovery of New Potent Positive Allosteric Modulators of Dopamine $D_{2}$ Receptors: Insights into the Bioisosteric Replacement of Proline to 3-Furoic Acid in the Melanostatin Neuropeptide. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 6209-6220.	2.9	6

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73	S, N-doped carbon dots-based cisplatin delivery system in adenocarcinoma cells: Spectroscopic and computational approach. <i>Journal of Colloid and Interface Science</i> , 2022, 623, 226-237.	5.0	6
74	HmuS and HmuQ of <i>Ensifer/Sinorhizobium meliloti</i> degrade heme in vitro and participate in heme metabolism in vivo. <i>BioMetals</i> , 2016, 29, 333-347.	1.8	5
75	Use of capillary electrophoresis for characterisation of vinyl-terminated Au nanoprisms and nanooctahedra. <i>Electrophoresis</i> , 2018, 39, 1437-1442.	1.3	5
76	3-Hydroxykynurenic acid: Physicochemical properties and fluorescence labeling. <i>Dyes and Pigments</i> , 2019, 162, 552-561.	2.0	4
77	Single step synthesis of a polyhydroxy ether and its optimization to adsorption of a textile dye. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103416.	3.3	4
78	Phosphorus adsorption by a modified polyampholyte-diatomaceous earth material containing imidazole and carboxylic acid moieties: batch and dynamic studies. <i>New Journal of Chemistry</i> , 2017, 41, 7667-7673.	1.4	3
79	Design, Synthesis, and Biological Evaluation of Hybrid Glypromate Analogues Using 2-Azanorbornane as a Prolyl and Pipecolyl Surrogate. <i>ACS Chemical Neuroscience</i> , 2021, 12, 3615-3624.	1.7	3
80	Amorphous calcium phosphate nanoparticles allow fingerprint detection via self-activated luminescence. <i>Chemical Engineering Journal</i> , 2022, 443, 136443.	6.6	3
81	Design, Characterization, and Environmental Applications of Hydrogels with Metal Ion Coordination Properties. , 0, , .		2
82	Porous, lightweight, metal organic materials. , 2021, , 43-129.		2
83	Supramolecular effect of acetate on chitin gelling medium: Structural properties and protein interaction. <i>International Journal of Biological Macromolecules</i> , 2021, 170, 317-325.	3.6	2
84	A New Look at the Halogenation of Porphyrins. <i>Current Organic Chemistry</i> , 2016, 21, 177-182.	0.9	1
85	Glycosylated paclitaxel mixed nanomicelles: Increasing drug brain accumulation and enhancing its in vitro antitumoral activity in glioblastoma cell lines. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 68, 103046.	1.4	1
86	Detection of Cadmium-related ions by MALDI TOF mass spectrometry correlates with physicochemical properties of Cadmium/matrix adducts. <i>Polyhedron</i> , 2021, 209, 115463.	1.0	0