

# Guillermina L Luque

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

981  
citations

840119

11  
h-index

752256

20  
g-index

21  
all docs

21  
docs citations

21  
times ranked

1411  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon nanotubes for electrochemical biosensing. <i>Talanta</i> , 2007, 74, 291-307.	2.9	513
2	Glucose biosensors based on the immobilization of copper oxide and glucose oxidase within a carbon paste matrix. <i>Talanta</i> , 2005, 66, 467-471.	2.9	101
3	Analytical applications of glassy carbon electrodes modified with multi-wall carbon nanotubes dispersed in polyethylenimine as detectors in flow systems. <i>Analytica Chimica Acta</i> , 2007, 596, 183-194.	2.6	65
4	Electrochemical sensor for amino acids and albumin based on composites containing carbon nanotubes and copper microparticles. <i>Talanta</i> , 2007, 71, 1282-1287.	2.9	54
5	Characterization of carbon paste electrodes modified with manganese based perovskites-type oxides from the amperometric determination of hydrogen peroxide. <i>Sensors and Actuators B: Chemical</i> , 2009, 142, 331-336.	4.0	52
6	Glucose Biosensor Based on the Use of a Carbon Nanotube Paste Electrode Modified with Metallic Particles. <i>Mikrochimica Acta</i> , 2006, 152, 277-283.	2.5	40
7	Analytical applications of a carbon nanotubes composite modified with copper microparticles as detector in flow systems. <i>Analytica Chimica Acta</i> , 2006, 577, 183-189.	2.6	32
8	Electrooxidation of DNA at glassy carbon electrodes modified with multiwall carbon nanotubes dispersed in polyethylenimine. <i>Electrochimica Acta</i> , 2011, 56, 9121-9126.	2.6	25
9	Modeling of substitutionally modified graphene structures to prevent the shuttle mechanism in lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2019, 309, 402-414.	2.6	21
10	Lithium dual uptake anode materials: crystalline Fe <sub>3</sub> O <sub>4</sub> nanoparticles supported over graphite for lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 258, 192-199.	2.6	16
11	First-Principles studies of silicon underpotential deposition on defective graphene and its relevance for lithium-ion battery materials. <i>Electrochimica Acta</i> , 2016, 208, 92-101.	2.6	14
12	A Mapping of the Physical and Electrochemical Properties of Composite Lithium-ion Batteries Anodes Made from Graphite, Sn, and Si. <i>Batteries and Supercaps</i> , 2020, 3, 1248-1256.	2.4	10
13	On the role of oxidized graphene interfaces in lithium sulfur batteries: Thermodynamic and kinetic aspects using density functional theory. <i>Applied Surface Science</i> , 2021, 550, 149358.	3.1	8
14	Improving the polysulfide barrier by efficient carbon nanofibers coating on separator/cathode for Li-S batteries. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2341-2351.	1.2	7
15	Role of the solvent in the activation of Li <sub>2</sub> S as cathode material: a DFT study. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 344003.	0.7	6
16	Asparagine quantification in cellular culture media using copper modified carbon nanotubes composite electrodes. <i>Sensors and Actuators B: Chemical</i> , 2011, 158, 423-426.	4.0	5
17	Lithium polysulfide conformer analysis in ether-based solvents for Li-ion batteries. <i>Molecular Systems Design and Engineering</i> , 2022, 7, 364-373.	1.7	5
18	Impact of alginate and fluoroethylene carbonate on the electrochemical performance of SiO <sub>2</sub> /SnCoC anode for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 397-405.	1.2	2

#	ARTICLE	IF	CITATIONS
19	Surface Reactivity of Lithium (Poly)sulfides in a Polarizable Environment from First Principles. Topics in Catalysis, 2022, 65, 966-978.	1.3	1