

# Javier Hernández Ferrer

## List of Publications by Year in descending order

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44  
papers

1,643  
citations

304743

22  
h-index

289244

40  
g-index

45  
all docs

45  
docs citations

45  
times ranked

2645  
citing authors

#	ARTICLE	IF	CITATIONS
1	Water dissociation on well-defined platinum surfaces: The electrochemical perspective. <i>Catalysis Today</i> , 2013, 202, 105-113.	4.4	201
2	Gold nanoparticles synthesized in a water-in-oil microemulsion: electrochemical characterization and effect of the surface structure on the oxygen reduction reaction. <i>Journal of Electroanalytical Chemistry</i> , 2004, 574, 185-196.	3.8	156
3	Electrochemistry of Shape-Controlled Catalysts: Oxygen Reduction Reaction on Cubic Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14078-14083.	3.1	145
4	Methanol oxidation on gold nanoparticles in alkaline media: Unusual electrocatalytic activity. <i>Electrochimica Acta</i> , 2006, 52, 1662-1669.	5.2	128
5	The effect of gamma-irradiation on few-layered graphene materials. <i>Applied Surface Science</i> , 2014, 301, 264-272.	6.1	104
6	Characterization of the Surface Structure of Gold Nanoparticles and Nanorods Using Structure Sensitive Reactions. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12651-12654.	2.6	85
7	Controlled chemistry of tailored graphene nanoribbons for electrochemistry: a rational approach to optimizing molecule detection. <i>RSC Advances</i> , 2014, 4, 132-139.	3.6	73
8	In Situ Surface Characterization and Oxygen Reduction Reaction on Shape-Controlled Gold Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 2256-2273.	0.9	65
9	The role of anions in oxygen reduction in neutral and basic media on gold single-crystal electrodes. <i>Journal of Solid State Electrochemistry</i> , 2003, 7, 599-606.	2.5	56
10	Graphene oxide nanoribbon-based sensors for the simultaneous bio-electrochemical enantiomeric resolution and analysis of amino acid biomarkers. <i>Biosensors and Bioelectronics</i> , 2015, 68, 163-167.	10.1	55
11	Controlling the surface chemistry of graphene oxide: Key towards efficient ZnO-GO photocatalysts. <i>Catalysis Today</i> , 2020, 357, 350-360.	4.4	50
12	Graphene nanoribbon-based electrochemical sensors on screen-printed platforms. <i>Electrochimica Acta</i> , 2015, 172, 2-6.	5.2	42
13	Single-walled carbon nanotubes covalently functionalized with cysteine: A new alternative for the highly sensitive and selective Cd(II) quantification. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 506-514.	7.8	35
14	Effects of the surface mobility on the oxidation of adsorbed CO on platinum electrodes in alkaline media. The role of the adlayer and surface defects. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16762.	2.8	34
15	Covalent functionalization of single-walled carbon nanotubes with polytyrosine: Characterization and analytical applications for the sensitive quantification of polyphenols. <i>Analytica Chimica Acta</i> , 2016, 909, 51-59.	5.4	33
16	Electrochemical sensing of guanine, adenine and 8-hydroxy-2'-deoxyguanosine at glassy carbon modified with single-walled carbon nanotubes covalently functionalized with lysine. <i>RSC Advances</i> , 2016, 6, 13469-13477.	3.6	29
17	Cobalt-Doped ZnO Nanorods Coated with Nanoscale Metal-Organic Framework Shells for Water-Splitting Photoanodes. <i>ACS Applied Nano Materials</i> , 2020, 3, 7781-7788.	5.0	29
18	Quantification of Signal-to-Noise Ratio in Cerebral Cortex Recordings Using Flexible MEAs With Co-localized Platinum Black, Carbon Nanotubes, and Gold Electrodes. <i>Frontiers in Neuroscience</i> , 2018, 12, 862.	2.8	28

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19	Conjugated Polymer Nanoparticle-Graphene Oxide Charge-Transfer Complexes. <i>Advanced Functional Materials</i> , 2018, 28, 1707548.	14.9	26
20	Peptide-based biomaterials. Linking l-tyrosine and poly l-tyrosine to graphene oxide nanoribbons. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3870-3884.	5.8	24
21	Cysteine functionalized bio-nanomaterial for the affinity sensing of Pb(II) as an indicator of environmental damage. <i>Microchemical Journal</i> , 2018, 141, 271-278.	4.5	24
22	Multi-walled carbon nanotubes/graphene nanoribbons hybrid materials with superior electrochemical performance. <i>Electrochemistry Communications</i> , 2014, 39, 26-29.	4.7	23
23	Electrochemical synthesis and characterization of single-walled carbon nanotubes/polypyrrole films on transparent substrates. <i>Electrochimica Acta</i> , 2012, 64, 1-9.	5.2	22
24	Towards high-efficient microsupercapacitors based on reduced graphene oxide with optimized reduction degree. <i>Energy Storage Materials</i> , 2020, 25, 740-749.	18.0	18
25	Functionalized carbon dots on TiO <sub>2</sub> for perovskite photovoltaics and stable photoanodes for water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 12180-12191.	7.1	15
26	Single-Wall Carbon Nanotubes Covalently Functionalized with Polylysine: Synthesis, Characterization and Analytical Applications for the Development of Electrochemical (Bio)Sensors. <i>Electroanalysis</i> , 2014, 26, 1676-1683.	2.9	14
27	Electrochemical Sensor for the Quantification of Dopamine Using Glassy Carbon Electrodes Modified with Single-Wall Carbon Nanotubes Covalently Functionalized with Polylysine. <i>Electroanalysis</i> , 2015, 27, 1565-1571.	2.9	13
28	Transparent conducting films made of different carbon nanotubes, processed carbon nanotubes, and graphene nanoribbons. <i>Chemical Engineering Science</i> , 2015, 138, 566-574.	3.8	13
29	Bottom-Up Synthesized MoS <sub>2</sub> Interfacing Polymer Carbon Nanodots with Electrocatalytic Activity for Hydrogen Evolution. <i>Chemistry - A European Journal</i> , 2020, 26, 6635-6642.	3.3	12
30	Study of neuron survival on polypyrrole-embedded single-walled carbon nanotube substrates for long-term growth conditions. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, n/a-n/a.	4.0	11
31	Integrating Water-Soluble Polythiophene with Transition-Metal Dichalcogenides for Managing Photoinduced Processes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 5947-5956.	8.0	11
32	Photoactivity improvement of TiO <sub>2</sub> electrodes by thin hole transport layers of reduced graphene oxide. <i>Electrochimica Acta</i> , 2019, 298, 279-287.	5.2	10
33	A tool box to ascertain the nature of doping and photoresponse in single-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4063-4071.	2.8	9
34	Self-Assembled Core-Shell CdTe/Poly(3-hexylthiophene) Nanoensembles as Novel Donor-Acceptor Light-Harvesting Systems. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 44695-44703.	8.0	8
35	Carbon Nanotube Film Electrodes with Acrylic Additives: Blocking Electrochemical Charge Transfer Reactions. <i>Nanomaterials</i> , 2020, 10, 1078.	4.1	8
36	Electron Trap States and Photopotential of Nanocrystalline Titanium Dioxide Electrodes Filled with Single-Walled Carbon Nanotubes. <i>ChemElectroChem</i> , 2017, 4, 2300-2307.	3.4	6

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37	Capacitive and Charge Transfer Effects of Single-Walled Carbon Nanotubes in TiO <sub>2</sub> Electrodes. <i>ChemPhysChem</i> , 2019, 20, 838-847.	2.1	5
38	Differential properties and effects of fluorescent carbon nanoparticles towards intestinal theranostics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 185, 110612.	5.0	5
39	In-situ Growth and Immobilization of CdS Nanoparticles onto Functionalized MoS <sub>2</sub> : Preparation, Characterization and Fabrication of Photoelectrochemical Cells. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2350-2356.	3.3	4
40	Carbon Nanofoam Supercapacitor Electrodes with Enhanced Performance Using a Water-Transfer Process. <i>ACS Omega</i> , 2018, 3, 15134-15139.	3.5	3
41	Charge-transfer characteristics in carbon nanostructure/metal oxide photoelectrodes efficiently probed by hydrogen peroxide. <i>Journal of Electroanalytical Chemistry</i> , 2018, 828, 86-90.	3.8	3
42	Optical properties and carrier dynamics in Co-doped ZnO nanorods. <i>Nanoscale Advances</i> , 2021, 3, 214-222.	4.6	3
43	Hybrids of Reduced Graphene Oxide Aerogel and CNT for Electrochemical O <sub>2</sub> Reduction. <i>Catalysts</i> , 2021, 11, 1404.	3.5	3
44	Carbon Nanotubes as Suitable Interface for Improving Neural Recordings. , 0, , .		2