

# Aranzazu Heras

## List of Publications by Year in descending order

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84  
papers

1,682  
citations

257101

24  
h-index

360668

35  
g-index

85  
all docs

85  
docs citations

85  
times ranked

1594  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electropolymerisation of 3,4-ethylenedioxythiophene in aqueous solutions. <i>Electrochemistry Communications</i> , 2004, 6, 1192-1198.	2.3	88
2	Spectroelectrochemistry at Screen-Printed Electrodes: Determination of Dopamine. <i>Analytical Chemistry</i> , 2012, 84, 9146-9153.	3.2	65
3	Highly Stable and Efficient Light-Emitting Electrochemical Cells Based on Cationic Iridium Complexes Bearing Arylazole Ancillary Ligands. <i>Inorganic Chemistry</i> , 2017, 56, 10298-10310.	1.9	65
4	Spectroelectrochemical Sensing: Current Trends and Challenges. <i>Electroanalysis</i> , 2019, 31, 1254-1278.	1.5	52
5	A poly(3,4-ethylenedioxythiophene)-poly(styrene sulphonate) composite electrode coating in the electrooxidation of phenol. <i>Electrochimica Acta</i> , 2005, 50, 1685-1691.	2.6	51
6	Quantitative Raman spectroelectrochemistry using silver screen-printed electrodes. <i>Electrochimica Acta</i> , 2018, 264, 183-190.	2.6	51
7	Development and characterisation of a novel composite electrode material consisting of poly(3,4-ethylenedioxythiophene) including Au nanoparticles. <i>Electrochimica Acta</i> , 2008, 53, 3916-3923.	2.6	49
8	Determination of halides using Ag nanoparticles-modified disposable electrodes. A first approach to a wearable sensor for quantification of chloride ions. <i>Analytica Chimica Acta</i> , 2018, 1012, 42-48.	2.6	45
9	Layer-by-layer electrosynthesis of Pt@Polyaniline nanocomposites for the catalytic oxidation of methanol. <i>Electrochemistry Communications</i> , 2009, 11, 122-125.	2.3	42
10	Bidimensional Spectroelectrochemistry. <i>Analytical Chemistry</i> , 2001, 73, 2883-2889.	3.2	39
11	Study of polyaniline films degradation by thin-layer bidimensional spectroelectrochemistry. <i>Electrochimica Acta</i> , 2006, 52, 234-239.	2.6	37
12	Electrochemical surface oxidation enhanced Raman scattering. <i>Electrochimica Acta</i> , 2018, 282, 377-383.	2.6	36
13	Study of Adenine and Guanine Oxidation Mechanism by Surface-Enhanced Raman Spectroelectrochemistry. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8191-8198.	1.5	34
14	Development of a Novel Bidimensional Spectroelectrochemistry Cell Using Transfer Single-Walled Carbon Nanotubes Films as Optically Transparent Electrodes. <i>Analytical Chemistry</i> , 2015, 87, 6233-6239.	3.2	33
15	Simultaneous UV-Visible Absorption and Raman Spectroelectrochemistry. <i>Analytical Chemistry</i> , 2016, 88, 8210-8217.	3.2	33
16	Determination of uric acid in synthetic urine by using electrochemical surface oxidation enhanced Raman scattering. <i>Analytica Chimica Acta</i> , 2019, 1085, 61-67.	2.6	33
17	Aqueous UV-VIS spectroelectrochemical study of the voltammetric reduction of graphene oxide on screen-printed carbon electrodes. <i>Electrochemistry Communications</i> , 2016, 64, 65-68.	2.3	31
18	Bidimensional spectroelectrochemical study on electrogeneration of soluble Prussian Blue from hexacyanoferrate(II) solutions. <i>Electrochimica Acta</i> , 2004, 49, 1027-1033.	2.6	29

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19	Electrochemical purification of carbon nanotube electrodes. <i>Electrochemistry Communications</i> , 2009, 11, 1535-1538.	2.3	29
20	Flexible optically transparent single-walled carbon nanotube electrodes for UV-Vis absorption spectroelectrochemistry. <i>Electrochemistry Communications</i> , 2009, 11, 442-445.	2.3	27
21	Bidimensional Spectroelectrochemistry Applied to the Electrosynthesis and Characterization of Conducting Polymers: Study of Poly[4,4'-bis(butylthio)-2,2'-bithiophene]. <i>Helvetica Chimica Acta</i> , 2001, 84, 3628-3642.	1.0	26
22	UV-Visible Spectroelectrochemical Detection of Side-Reactions in the Hexacyanoferrate(III)/(II) Electrode Process. <i>Electroanalysis</i> , 2003, 15, 702-708.	1.5	25
23	Spatial Scanning Spectroelectrochemistry. Study of the Electrodeposition of Pd Nanoparticles at the Liquid/Liquid Interface. <i>Analytical Chemistry</i> , 2012, 84, 5723-5730.	3.2	25
24	Direct Determination of Ascorbic Acid in a Grapefruit: Paving the Way for In Vivo Spectroelectrochemistry. <i>Analytical Chemistry</i> , 2017, 89, 1815-1822.	3.2	25
25	Electrochemical SERS and SOERS in a single experiment: A new methodology for quantitative analysis. <i>Electrochimica Acta</i> , 2020, 334, 135561.	2.6	25
26	Bidimensional chronoabsorptometric study of electropolymerisation of 4,4'-bis(2-methylbutylthio)-2,2'-bithiophene. <i>Electrochemistry Communications</i> , 2002, 4, 451-456.	2.3	23
27	Press-transfer optically transparent electrodes fabricated from commercial single-walled carbon nanotubes. <i>Electrochemistry Communications</i> , 2012, 25, 1-4.	2.3	23
28	Dynamic Raman Spectroelectrochemistry of Single Walled Carbon Nanotubes modified electrodes using a Langmuir-Schaefer method. <i>Electrochimica Acta</i> , 2014, 129, 171-176.	2.6	23
29	Monitoring charge transfer at polarisable liquid/liquid interfaces employing time-resolved Raman spectroelectrochemistry. <i>Electrochemistry Communications</i> , 2015, 54, 14-17.	2.3	21
30	A UV-Visible/Raman spectroelectrochemical study of the stability of poly(3,4-ethylenedioxythiophene) films. <i>Polymer Degradation and Stability</i> , 2011, 96, 2112-2119.	2.7	20
31	Electropolymerization and characterization of polyaniline films using a spectroelectrochemical flow cell. <i>Analytica Chimica Acta</i> , 2006, 573-574, 20-25.	2.6	19
32	In-situ Evidence of the Redox-State Dependence of Photoluminescence in Graphene Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 531-537.	2.1	19
33	Application of spectroelectroanalysis for the quantitative determination of mixtures of compounds with highly overlapping signals. <i>Talanta</i> , 2019, 195, 815-821.	2.9	19
34	Time-Resolved Study of the Surface-Enhanced Raman Scattering Effect of Silver Nanoparticles Generated in Voltammetry Experiments. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23426-23433.	1.5	18
35	Effect of chloride and pH on the electrochemical surface oxidation enhanced Raman scattering. <i>Applied Surface Science</i> , 2019, 473, 366-372.	3.1	18
36	Derivative UV/Vis spectroelectrochemistry in a thin-layer regime: deconvolution and simultaneous quantification of ascorbic acid, dopamine and uric acid. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6329-6339.	1.9	18

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37	Spectroelectrochemical study of the electrosynthesis of Pt		
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55	UV/Vis absorption spectroelectrochemistry of folic acid. <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 29-37.	1.2	12
56	UV/Vis Spectroelectrochemical Evidence of Rectification of Quantized Charging in Monolayer-Protected Gold Cluster Films. <i>Small</i> , 2006, 2, 56-58.	5.2	10
57	Quantized spectroelectrochemical behaviour of monolayer-protected gold cluster films assessed by reflectance spectroelectrochemical quartz crystal microbalance. <i>Electrochemistry Communications</i> , 2007, 9, 255-261.	2.3	10
58	Spectroelectrochemistry at free-standing carbon nanotubes electrodes. <i>Electrochimica Acta</i> , 2016, 217, 262-268.	2.6	10
59	Bipolar Spectroelectrochemistry. <i>Analytical Chemistry</i> , 2017, 89, 3879-3883.	3.2	10
60	UV/Vis spectroelectrochemistry of o-vanillin: Study of the antioxidant properties. <i>Journal of Electroanalytical Chemistry</i> , 2020, 859, 113844.	1.9	10
61	Double fingerprint characterization of uracil and 5-fluorouracil. <i>Electrochimica Acta</i> , 2021, 388, 138615.	2.6	10
62	Potential Regulation of the Spectroelectrochemical Response of Monolayer-Protected Gold Cluster Films by Electrolyte Composition. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4277-4284.	1.5	9
63	Electrodeposition of silver nanoparticles in the presence of different complexing agents by time-resolved Raman spectroelectrochemistry. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 482-492.	1.2	9
64	Spectroelectrochemistry of Quantum Dots. <i>Israel Journal of Chemistry</i> , 2019, 59, 679-694.	1.0	9
65	Enhancement factors in electrochemical surface oxidation enhanced Raman scattering. <i>Electrochimica Acta</i> , 2021, 380, 138223.	2.6	9
66	Forensic Identification of Fentanyl and its Analogs by Electrochemical-Surface Enhanced Raman Spectroscopy (EC-SERS) for the Screening of Seized Drugs of Abuse. <i>Frontiers in Analytical Science</i> , 2022, 2, .	1.1	8
67	Digital simulation model for bidimensional spectroelectrochemistry. <i>Journal of Electroanalytical Chemistry</i> , 2003, 553, 87-95.	1.9	7
68	Synthesis, spectral characterization and cytotoxicity of Ru <sup>II</sup> -bipyridyl complexes containing hexakis(pyrazol-1-yl)benzene (hpzb) as a co-ligand. <i>Polyhedron</i> , 2007, 26, 4373-4382.	1.0	7
69	Janus Electrochemistry: Asymmetric Functionalization in One Step. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 35404-35410.	4.0	7
70	Simultaneous study of different regions of an electrode surface with a novel spectroelectrochemistry platform. <i>Electrochemistry Communications</i> , 2018, 90, 73-77.	2.3	7
71	A Flexible Platform of Electrochemically Functionalized Carbon Nanotubes for NADH Sensors. <i>Sensors</i> , 2019, 19, 518.	2.1	7
72	Dopamine-functionalized graphene oxide as a high-performance material for biosensing. <i>2D Materials</i> , 2020, 7, 024007.	2.0	7

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73	Electrochemical generation of surface enhanced Raman scattering substrates for the determination of folic acid. <i>Journal of Electroanalytical Chemistry</i> , 2021, 896, 115288.	1.9	7
74	Study of electrochemical stability of conducting polymers by bidimensional spectroelectrochemistry: p- and n-doping of poly(4,4'-bis(butylthio)-2,2'-bithiophene) films. <i>Polymer Degradation and Stability</i> , 2006, 91, 3117-3123.	2.7	6
75	Carbon nanostructured films modified by metal nanoparticles supported on filtering membranes for electroanalysis. <i>Talanta</i> , 2018, 178, 736-742.	2.9	6
76	Simultaneous Raman and reflection UV/Vis absorption spectroelectrochemistry. <i>Nano Research</i> , 2022, 15, 5340-5346.	5.8	6
77	Spectroelectrochemical synthesis of gold nanoparticles using cyclic voltammetry in the presence of a protective agent. <i>RSC Advances</i> , 2014, 4, 45168-45173.	1.7	5
78	Silver nanoparticles/free-standing carbon nanotube Janus membranes.. <i>Electrochimica Acta</i> , 2017, 243, 349-356.	2.6	5
79	Spectroelectrochemical Determination of Isoprenaline in a Pharmaceutical Sample. <i>Sensors</i> , 2020, 20, 5179.	2.1	5
80	Rapid Determination of the "Legal Highs"™ 4-MMC and 4-MEC by Spectroelectrochemistry: Simultaneous Cyclic Voltammetry and In Situ Surface-Enhanced Raman Spectroscopy. <i>Sensors</i> , 2022, 22, 295.	2.1	5
81	Electropolymerization under potentiodynamic and potentiostatic conditions. <i>Electrochimica Acta</i> , 2004, 50, 59-67.	2.6	4
82	Development of Disposable Carbon Nanofibers Electrodes Supported on Filters. <i>Electroanalysis</i> , 2016, 28, 890-897.	1.5	4
83	Spectroelectrochemical monitoring of contaminants during the electrochemical filtration process using free-standing carbon nanotube filters. <i>Electrochimica Acta</i> , 2018, 280, 17-24.	2.6	4
84	Multiamperometric-SERS detection of melamine on gold screen-printed electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2022, 918, 116478.	1.9	3