

# Angel Cuesta

## List of Publications by Year in descending order

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96  
papers

4,457  
citations

117453

34  
h-index

106150

65  
g-index

106  
all docs

106  
docs citations

106  
times ranked

3894  
citing authors

#	ARTICLE	IF	CITATIONS
1	ATR-SEIRAS for time-resolved studies of electrode-electrolyte interfaces. <i>Current Opinion in Electrochemistry</i> , 2022, 35, 101041.	2.5	14
2	Water-In-Salt Environment Reduces the Overpotential for Reduction of CO <sub>2</sub> to CO <sub>2</sub> <sup>+</sup> in Ionic Liquid/Water Mixtures. <i>ACS Catalysis</i> , 2022, 12, 6770-6780.	5.5	9
3	Reactive and inhibiting species in the electrocatalytic oxidation of glycerol on gold. A study combining in-situ visible reflectance and ATR-SEIRAS. <i>Journal of Catalysis</i> , 2021, 394, 1-7.	3.1	7
4	Reduction of Ag <sup>+</sup> irreversibly adsorbed on cyanide-modified Pt(111). <i>Journal of Electroanalytical Chemistry</i> , 2021, 896, 115039.	1.9	0
5	The energetics of electron and proton transfer to CO <sub>2</sub> in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 22035-22044.	1.3	3
6	Methanol Dehydrogenation on Pt Electrodes: Active Sites and Role of Adsorbed Spectators Revealed through Time-Resolved ATR-SEIRAS. <i>ACS Catalysis</i> , 2021, 11, 13483-13495.	5.5	12
7	Adsorbed Formate is the Last Common Intermediate in the Dual-Path Mechanism of the Electrooxidation of Formic Acid. <i>ACS Catalysis</i> , 2020, 10, 8120-8130.	5.5	36
8	Electrocatalytic reduction of CO <sub>2</sub> in neat and water-containing imidazolium-based ionic liquids. <i>Current Opinion in Electrochemistry</i> , 2020, 23, 80-88.	2.5	24
9	Probing electronic and atomic ensembles effects on PtAu <sub>3</sub> nanoparticles with CO adsorption and electrooxidation. <i>Journal of Electroanalytical Chemistry</i> , 2020, 870, 114233.	1.9	9
10	How cations determine the interfacial potential profile: Relevance for the CO <sub>2</sub> reduction reaction. <i>Electrochimica Acta</i> , 2019, 327, 135055.	2.6	44
11	Computational Ag/AgCl Reference Electrode from Density Functional Theory-Based Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2019, 123, 10224-10232.	1.2	15
12	In-situ Infrared Spectroscopy Applied to the Study of the Electrocatalytic Reduction of CO <sub>2</sub> : Theory, Practice and Challenges. <i>ChemPhysChem</i> , 2019, 20, 2904-2925.	1.0	66
13	Electrochemical metallization of molecular adlayers. <i>Current Opinion in Electrochemistry</i> , 2019, 17, 72-78.	2.5	4
14	The oscillatory electro-oxidation of formic acid: Insights on the adsorbates involved from time-resolved ATR-SEIRAS and UV reflectance experiments. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 249-254.	1.9	6
15	Theoretical insight into the vibrational spectra of metal-water interfaces from density functional theory based molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11554-11558.	1.3	41
16	The structure of metal-water interface at the potential of zero charge from density functional theory-based molecular dynamics. <i>Journal of Electroanalytical Chemistry</i> , 2018, 819, 87-94.	1.9	50
17	Reduction of Pd <sup>2+</sup> pre-adsorbed on cyanide-modified Pt(111) electrodes: Adlayer metallization vs. metal-on-metal deposition. <i>Electrochimica Acta</i> , 2018, 292, 419-424.	2.6	8
18	Physicochemical Tools: Toward a Detailed Understanding of the Architecture of Targeted Radiotherapy Nanoparticles. <i>ACS Applied Bio Materials</i> , 2018, 1, 1639-1646.	2.3	4

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19	In Situ Monitoring Using ATR-SEIRAS of the Electrocatalytic Reduction of CO <sub>2</sub> on Au in an Ionic Liquid/Water Mixture. ACS Catalysis, 2018, 8, 6345-6352.	5.5	65
20	Chapter 4. Single-crystal Surfaces as Model Electrocatalysts for CO <sub>2</sub> Reduction. RSC Energy and Environment Series, 2018, , 88-110.	0.2	6
21	Properties improvement of poly(o-methoxyaniline) based supercapacitors: experimental and theoretical behaviour study of self-doping effect. Electrochimica Acta, 2017, 228, 57-65.	2.6	6
22	Microwave-Assisted Synthesis of Pt-Au Nanoparticles with Enhanced Electrocatalytic Activity for the Oxidation of Formic Acid. Electrochimica Acta, 2017, 224, 56-63.	2.6	43
23	Electrooxidation of C1 organic molecules on Pt electrodes. Current Opinion in Electrochemistry, 2017, 4, 32-38.	2.5	17
24	Spectroscopic Evidence of Size-Dependent Buffering of Interfacial pH by Cation Hydrolysis during CO <sub>2</sub> Electroreduction. ACS Applied Materials & Interfaces, 2017, 9, 27377-27382.	4.0	144
25	Determining Potentials of Zero Charge of Metal Electrodes versus the Standard Hydrogen Electrode from Density-Functional-Theory-Based Molecular Dynamics. Physical Review Letters, 2017, 119, 016801.	2.9	149
26	Simultaneous time-resolved ATR-SEIRAS and CO-charge displacement experiments: The dynamics of CO adsorption on polycrystalline Pt. Journal of Electroanalytical Chemistry, 2017, 800, 25-31.	1.9	18
27	Atomic Ensemble Effects and Non-Covalent Interactions at the Electrode-Electrolyte Interface. Makara Journal of Science, 2016, 20, .	1.1	0
28	Metallization of cyanide-modified Pt(111) electrodes with copper. Journal of Solid State Electrochemistry, 2016, 20, 1087-1094.	1.2	6
29	Super-Nernstian Shifts of Interfacial Proton-Coupled Electron Transfers: Origin and Effect of Noncovalent Interactions. Journal of Physical Chemistry C, 2016, 120, 15586-15592.	1.5	16
30	Coupled electronic and morphologic changes in graphene oxide upon electrochemical reduction. Carbon, 2015, 91, 11-19.	5.4	25
31	Identification of the byproducts of the oxygen evolution reaction on Rutile-type oxides under dynamic conditions. Journal of Electroanalytical Chemistry, 2014, 728, 102-111.	1.9	9
32	The effect of pH on the electrocatalytic oxidation of formic acid/formate on platinum: A mechanistic study by surface-enhanced infrared spectroscopy coupled with cyclic voltammetry. Electrochimica Acta, 2014, 129, 127-136.	2.6	122
33	Non-covalent interactions at electrochemical interfaces: one model fits all?. Physical Chemistry Chemical Physics, 2014, 16, 14281-14286.	1.3	8
34	Potentiostatic infrared titration of 11-mercaptoundecanoic acid monolayers. Electrochemistry Communications, 2014, 45, 13-16.	2.3	16
35	Electrochemical SERS study on a copper electrode of the insoluble organic pigment quinacridone quinone using ionic liquids (BMIMCl and TBAN) as dispersing agents. Analyst, The, 2013, 138, 4670.	1.7	6
36	Physicochemical Characterization of <i>Acidiphilium</i> sp. Biofilms. ChemPhysChem, 2013, 14, 1237-1244.	1.0	5

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37	The impact of spectator species on the interaction of H <sub>2</sub> O <sub>2</sub> with platinum – implications for the oxygen reduction reaction pathways. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8058.	1.3	85
38	Electrooxidation of formic acid on gold: An ATR-SEIRAS study of the role of adsorbed formate. <i>Catalysis Today</i> , 2013, 202, 79-86.	2.2	62
39	Electrochemical Desorption of Thiolates and Sulfur from Nanoparticle and Planar Platinum Surfaces. <i>Journal of Physical Chemistry C</i> , 2013, 117, 7589-7597.	1.5	8
40	CO and trans-cinnamaldehyde as corrosion inhibitors of I825, L80-13Cr and N80 alloys in concentrated HCl solutions at high pressure and temperature. <i>Electrochimica Acta</i> , 2013, 97, 1-9.	2.6	31
41	Importance of Acid–Base Equilibrium in Electrocatalytic Oxidation of Formic Acid on Platinum. <i>Journal of the American Chemical Society</i> , 2013, 135, 9991-9994.	6.6	214
42	Electrochemical STM study of the adsorption of adenine on Au(111) electrodes. <i>Electrochemistry Communications</i> , 2013, 35, 61-64.	2.3	26
43	The underpotential deposition that should not be: Cu(1 $\bar{1}$ –1) on Au(111). <i>Electrochemistry Communications</i> , 2012, 25, 54-57.	2.3	17
44	Proton Transfer Voltammetry at Electrodes Modified with Acid Thiol Monolayers. <i>Analytical Chemistry</i> , 2012, 84, 5778-5786.	3.2	17
45	Cyanide-modified Pt(111): Structure, stability and hydrogen adsorption. <i>Electrochimica Acta</i> , 2012, 82, 524-533.	2.6	20
46	Combined ATR-SEIRAS and EC-STM Study of the Immobilization of Laccase on Chemically Modified Au Electrodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16532-16540.	1.5	25
47	Mechanism of the Electrocatalytic Oxidation of Formic Acid on Metals. <i>ACS Catalysis</i> , 2012, 2, 728-738.	5.5	177
48	Inhibition by CO of the corrosion of Fe, Ni, and their alloys in concentrated HCl solutions. <i>Journal of Electroanalytical Chemistry</i> , 2011, 662, 150-156.	1.9	6
49	Adsorbed formate: the key intermediate in the oxidation of formic acid on platinum electrodes. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20091.	1.3	104
50	Atomic Ensemble Effects in Electrocatalysis: The Site–Knockout Strategy. <i>ChemPhysChem</i> , 2011, 12, 2375-2385.	1.0	57
51	Quantitative Study of Non–Covalent Interactions at the Electrode–Electrolyte Interface Using Cyanide–Modified Pt(111) Electrodes. <i>ChemPhysChem</i> , 2011, 12, 2230-2234.	1.0	40
52	The Role of Bridge–Bonded Adsorbed Formate in the Electrocatalytic Oxidation of Formic Acid on Platinum. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1159-1163.	7.2	177
53	In situ STM study of homoepitaxial electrodeposition on Au(100). <i>Electrochimica Acta</i> , 2011, 56, 6847-6852.	2.6	3
54	The Oxidation of Adsorbed CO on Pt(100) Electrodes in the Pre-peak Region. <i>Electrocatalysis</i> , 2010, 1, 7-18.	1.5	13

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55	Enhanced electrocatalysis of the oxygen reduction reaction based on patterning of platinum surfaces with cyanide. <i>Nature Chemistry</i> , 2010, 2, 880-885.	6.6	284
56	In Situ STM Observation of Stable Dislocation Networks during the Initial Stages of the Lifting of the Reconstruction on Au(111) Electrodes. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2059-2062.	2.1	15
57	Nanosecond pulsed laser deposition of TiO <sub>2</sub> : nanostructure and morphology of deposits and plasma diagnosis. <i>Thin Solid Films</i> , 2009, 517, 6546-6552.	0.8	29
58	A method for obtaining in situ external reflectance infrared spectra in strongly acidic solutions using fluorite windows. <i>Electrochemistry Communications</i> , 2009, 11, 616-618.	2.3	3
59	Surface Decoration at the Atomic Scale Using a Molecular Pattern: Copper Adsorption on Cyanide-Modified Pt(111) Electrodes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12340-12344.	1.5	7
60	Cyclic Voltammetry, FTIRS, and DEMS Study of the Electrooxidation of Carbon Monoxide, Formic Acid, and Methanol on Cyanide-Modified Pt(111) Electrodes. <i>Langmuir</i> , 2009, 25, 6500-6507.	1.6	149
61	Potential of zero charge as a sensitive probe for the titration of ionizable self-assembled monolayers. <i>Electrochemistry Communications</i> , 2008, 10, 1548-1550.	2.3	15
62	Electrochemical and FTIRS characterisation of NO adlayers on cyanide-modified Pt(111) electrodes: the mechanism of nitric oxide electroreduction on Pt. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 3628.	1.3	50
63	Detection of Surface Chirality by Electrolyte Electroreflectance Rotational Anisotropy. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14290-14292.	1.5	1
64	Determination of the Potential of Zero Charge of Au(111) Modified with Thiol Monolayers. <i>Analytical Chemistry</i> , 2007, 79, 6473-6479.	3.2	64
65	At Least Three Contiguous Atoms Are Necessary for CO Formation during Methanol Electrooxidation on Platinum. <i>Journal of the American Chemical Society</i> , 2006, 128, 13332-13333.	6.6	191
66	Potential dependence of the saturation CO coverage of Pt electrodes: The origin of the pre-peak in CO-stripping voltammograms. Part 2: Pt(100). <i>Journal of Electroanalytical Chemistry</i> , 2006, 586, 204-216.	1.9	100
67	Potential dependence of the saturation CO coverage of Pt electrodes: The origin of the pre-peak in CO-stripping voltammograms. Part 3: Pt(poly). <i>Journal of Electroanalytical Chemistry</i> , 2006, 586, 184-195.	1.9	157
68	Comments on the paper by H. Shiroishi, Y. Ayato, K. Kunimatsu and T. Okada entitled "Study of adsorbed water on Pt during methanol oxidation by ATR-SEIRAS (surface-enhanced infrared absorption)" <i>J Electroanal Chem</i> 2006, 586, 329-330.	1.9	13
69	Adsorption Isotherm of CO on Pt(111) Electrodes. <i>ChemPhysChem</i> , 2006, 7, 2346-2351.	1.0	23
70	Potential dependence of the saturation CO coverage of Pt electrodes: The origin of the pre-peak in CO-stripping voltammograms. Part 1: Pt(111). <i>Journal of Electroanalytical Chemistry</i> , 2005, 579, 1-12.	1.9	153
71	Dependence on the CO admission potential of the activation energy of the electrooxidation of adsorbed CO on Pt. <i>Electrochemistry Communications</i> , 2005, 7, 1027-1032.	2.3	10
72	Influence of a deposited TiO <sub>2</sub> thin layer on the corrosion behaviour of TiN-based coatings on iron. <i>Thin Solid Films</i> , 2005, 492, 158-165.	0.8	13

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73	Synthesis, Structure, and Physical Properties of Hybrid Nanocomposites for Solid-State Dye Lasers. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21618-21626.	1.2	45
74	Potential control of the CO adsorption site on Pt(100) electrodes. <i>Electrochemistry Communications</i> , 2004, 6, 395-399.	2.3	8
75	Measurement of the surface charge density of CO-saturated Pt(111) electrodes as a function of potential: the potential of zero charge of Pt(111). <i>Surface Science</i> , 2004, 572, 11-22.	0.8	150
76	Calculation of adsorption-induced differential external reflectance infrared spectra of particulate metals deposited on a substrate. <i>Journal of Electroanalytical Chemistry</i> , 2004, 563, 91-109.	1.9	34
77	Comparative voltammetric and FTIRAS study on the electro-oxidation of thiourea and methyl-thioureas on platinum in aqueous acid solutions. <i>Journal of Electroanalytical Chemistry</i> , 2004, 571, 59-72.	1.9	17
78	Electrochemically Grown Tin Oxide Thin Films: In Situ Characterization of Electronic Properties and Growth Mechanism. <i>Journal of Physical Chemistry B</i> , 2004, 108, 8173-8181.	1.2	15
79	Accurate determination of the CO coverage at saturation on a cyanide-modified Pt(111) electrode in cyanide-free 0.5 M H <sub>2</sub> SO <sub>4</sub> . <i>Journal of Electroanalytical Chemistry</i> , 2003, 560, 135-141.	1.9	20
80	Electrolyte electroreflectance study of carbon monoxide adsorption on polycrystalline silver and gold electrodes. <i>Electrochimica Acta</i> , 2003, 48, 2949-2956.	2.6	21
81	The effect of chloride on the electrooxidation of adsorbed CO on polycrystalline platinum electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2003, 548, 109-119.	1.9	33
82	Scanning Tunneling Microscopy, Fourier Transform Infrared Reflection-Absorption Spectroscopy, and X-ray Photoelectron Spectroscopy of Thiourea Adsorption from Aqueous Solutions on Silver (111). <i>Journal of Physical Chemistry B</i> , 2002, 106, 9831-9838.	1.2	20
83	Comments on the paper by M.-S. Zheng and S.-G. Sun entitled "In situ FTIR spectroscopic studies of CO adsorption on electrodes with nanometer-scale thin films of ruthenium in sulfuric acid solutions" [J. Electroanal. Chem. 500 (2001) 223]. <i>Journal of Electroanalytical Chemistry</i> , 2002, 529, 145-154.	1.9	27
84	In-situ STM characterisation of the surface morphology of platinum single crystal electrodes as a function of their preparation. <i>Journal of Electroanalytical Chemistry</i> , 2000, 484, 73-82.	1.9	208
85	The structure of bromide and chloride adlayers on Au(100) electrodes: an in situ STM study. <i>Surface Science</i> , 2000, 465, 310-316.	0.8	52
86	The adsorption of sulfate and phosphate on Au(111) and Au(100) electrodes: an in situ STM study. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 5684-5690.	1.3	148
87	Origin of the infrared reflectance increase produced by the adsorption of CO on particulate metals deposited on moderately reflecting substrates. <i>Journal of Electroanalytical Chemistry</i> , 1999, 465, 234-238.	1.9	48
88	A method to prepare single crystal electrodes of reactive metals: application to Pd(hkl). <i>Journal of Electroanalytical Chemistry</i> , 1999, 466, 165-168.	1.9	85
89	In-situ observation of an ordered sulfate adlayer on Au(100) electrodes. <i>Surface Science</i> , 1999, 430, L521-L526.	0.8	37
90	Synthesis and Reactivity of Mononuclear (Pentachlorophenyl)rhodium(II) Complexes. Structural Relevance of Rhodium $\pi$ -o-Chlorine Secondary Bonding. <i>Organometallics</i> , 1997, 16, 1026-1036.	1.1	40

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91	Electroadsorption and Electrooxidation of CO on Anodic Ni Oxide in Acidic CO-free Solution. Journal of Physical Chemistry B, 1997, 101, 9287-9291.	1.2	7
92	Study by Fourier Transform Infrared Spectroscopy of the Electroadsorption of CO on the Ferrous Metals. 1. Iron. The Journal of Physical Chemistry, 1996, 100, 12600-12608.	2.9	20
93	Study by potential-modulated reflectance spectroscopy of the electroadsorption of CO on Ni in alkaline medium. Journal of Electroanalytical Chemistry, 1995, 382, 153-159.	1.9	4
94	Confirmation by differential reflectance spectroscopy of the transition at 270 nm of CO chemisorbed on Pt in an acid medium. Journal of Electroanalytical Chemistry, 1995, 383, 195-197.	1.9	8
95	On the electroadsorption of CO on Pt in methanol and acetonitrile, and the influence of residual oxygen. Journal of Electroanalytical Chemistry, 1995, 395, 331-334.	1.9	5
96	Mapping the electronic structure of polypyrrole with image-based electrochemical scanning tunneling spectroscopy. Electrochemical Science Advances, 0, , e2100028.	1.2	1