JosÃ© Solla-GullÃ³n

List of Publications by Year
in descending order

180 papers	10,029 citations	20817 60 h-index	39675 94 g-index
184 all docs	184 docs citations	184 times ranked	8090 citing authors

#	Article	IF	Citations
1	Surface characterization of platinum electrodes. Physical Chemistry Chemical Physics, 2008, 10, 1359-1373.	2.8	351
2	Shape-dependent electrocatalysis: methanol and formic acid electrooxidation on preferentially oriented Pt nanoparticles. Physical Chemistry Chemical Physics, 2008, 10, 3689.	2.8	265
3	Production of methanol from CO2 electroreduction at Cu2O and Cu2O/ZnO-based electrodes in aqueous solution. Applied Catalysis B: Environmental, 2015, 176-177, 709-717.	20.2	249
4	Electrochemical Characterization of Shape-Controlled Pt Nanoparticles in Different Supporting Electrolytes. ACS Catalysis, 2012, 2, 901-910.	11.2	238
5	Imaging Structure Sensitive Catalysis on Different Shape-Controlled Platinum Nanoparticles. Journal of the American Chemical Society, 2010, 132, 5622-5624.	13.7	220
6	Shape-dependent electrocatalysis: ammonia oxidation on platinum nanoparticles with preferential (100) surfaces. Electrochemistry Communications, 2004, 6, 1080-1084.	4.7	218
7	Electrochemical characterisation of platinum nanoparticles prepared by microemulsion: how to clean them without loss of crystalline surface structure. Journal of Electroanalytical Chemistry, 2000, 491, 69-77.	3.8	206
8	Methanol Electrooxidation on Platinum/Ruthenium Nanoparticle Catalysts. Journal of Catalysis, 2001, 203, 1-6.	6.2	189
9	The potential of zero total charge of Pt nanoparticles and polycrystalline electrodes with different surface structure: The role of anion adsorption in fundamental electrocatalysis. Electrochimica Acta, 2010, 55, 7982-7994.	5.2	171
10	Pt-Rich_{core}/Sn-Rich_{subsurface}/Pt_{skin} Nanocubes As Highly Active and Stable Electrocatalysts for the Ethanol Oxidation Reaction. Journal of the American Chemical Society, 2018, 140, 3791-3797.	13.7	166
11	CO monolayer oxidation on semi-spherical and preferentially oriented (100) and (111) platinum nanoparticles. Electrochemistry Communications, 2006, 8, 189-194.	4.7	160
12	Gold nanoparticles synthesized in a water-in-oil microemulsion: electrochemical characterization and effect of the surface structure on the oxygen reduction reaction. Journal of Electroanalytical Chemistry, 2004, 574, 185-196.	3.8	156
13	Elemental Anisotropic Growth and Atomic-Scale Structure of Shape-Controlled Octahedral Ptâ€“Niâ€“Co Alloy Nanocatalysts. Nano Letters, 2015, 15, 7473-7480.	9.1	156
14	Sn nanoparticles on gas diffusion electrodes: Synthesis, characterization and use for continuous CO 2 electroreduction to formate. Journal of CO2 Utilization, 2017, 18, 222-228.	6.8	152
15	Electrochemistry of Shape-Controlled Catalysts:â€‰ Oxygen Reduction Reaction on Cubic Gold Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 14078-14083.	3.1	145
16	Screening of electrocatalysts for direct ammonia fuel cell: Ammonia oxidation on PtMe (Me: Ir, Rh, Pd,) Tj ETQq0 0 0 rgBT /Overlock 10 T	7.8	144
17	Electrochemical reduction of oxygen on palladium nanocubes in acid and alkaline solutions. Electrochimica Acta, 2012, 59, 329-335.	5.2	141
18	Shape dependent electrocatalysis. Annual Reports on the Progress of Chemistry Section C, 2011, 107, 263.	4.4	138

#	Article	IF	Citations
19	Enhanced electrocatalytic activity of Au@Cu core@shell nanoparticles towards CO₂reduction. Journal of Materials Chemistry A, 2015, 3, 23690-23698.	10.3	138
20	Significantly Enhancing Catalytic Activity of Tetrahexahedral Pt Nanocrystals by Bi Adatom Decoration. Journal of the American Chemical Society, 2011, 133, 12930-12933.	13.7	132
21	Towards the understanding of the interfacial pH scale at Pt(1 1 1) electrodes. Electrochimica Acta, 2015, 162, 138-145.	5.2	131
22	Methanol oxidation on gold nanoparticles in alkaline media: Unusual electrocatalytic activity. Electrochimica Acta, 2006, 52, 1662-1669.	5.2	128
23	Oxygen reduction reaction on nanostructured Pt-based electrocatalysts: A review. International Journal of Hydrogen Energy, 2020, 45, 31775-31797.	7.1	127
24	Synthesis of Pt Nanoparticles in Water-in-Oil Microemulsion: Effect of HCl on Their Surface Structure. Journal of the American Chemical Society, 2014, 136, 1280-1283.	13.7	124
25	Synthesis and Electrochemical Decontamination of Platinum-Palladium Nanoparticles Prepared by Water-in-Oil Microemulsion. Journal of the Electrochemical Society, 2003, 150, E104.	2.9	122
26	Electrochemical characterisation of platinumâ€“palladium nanoparticles prepared in a water-in-oil microemulsion. Journal of Electroanalytical Chemistry, 2003, 554-555, 273-284.	3.8	121
27	Ammonia Selective Oxidation on Pt(100) Sites in an Alkaline Medium. Journal of Physical Chemistry B, 2005, 109, 12914-12919.	2.6	118
28	CO electrooxidation on carbon supported platinum nanoparticles: Effect of aggregation. Journal of Electroanalytical Chemistry, 2010, 644, 117-126.	3.8	117
29	In Situ Surface Characterization of Preferentially Oriented Platinum Nanoparticles by Using Electrochemical Structure Sensitive Adsorption Reactions. Journal of Physical Chemistry B, 2004, 108, 13573-13575.	2.6	116
30	Electrocatalytic reduction of CO2 to formate using particulate Sn electrodes: Effect of metal loading and particle size. Applied Energy, 2015, 157, 165-173.	10.1	116
31	Role of surface defect sites: from Pt model surfaces to shape-controlled nanoparticles. Chemical Science, 2012, 3, 136-147.	7.4	109
32	Enhanced electrocatalytic activity of cubic Pd nanoparticles towards the oxygen reduction reaction in acid media. Electrochemistry Communications, 2011, 13, 734-737.	4.7	108
33	Formic Acid Oxidation on Shape-Controlled Pt Nanoparticles Studied by Pulsed Voltammetry. Journal of Physical Chemistry C, 2010, 114, 13802-13812.	3.1	101
34	Electrochemical characterization of platinumâ€“ruthenium nanoparticles prepared by water-in-oil microemulsion. Electrochimica Acta, 2004, 49, 5079-5088.	5.2	100
35	DEMS study of ammonia oxidation on platinum basal planes. Journal of Electroanalytical Chemistry, 2006, 588, 331-338.	3.8	99
36	Cu oxide/ZnO-based surfaces for a selective ethylene production from gas-phase CO2 electroconversion. Journal of CO2 Utilization, 2019, 31, 135-142.	6.8	97

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37	Hydrogenation of Î±, Î² unsaturated aldehydes over polycrystalline, (111) and (100) preferentially oriented Pt nanoparticles supported on carbon. Journal of Catalysis, 2008, 253, 159-166.	6.2	95
38	In Situ Surface Enhanced Raman Spectroscopy on Electrodes with Platinum and Palladium Nanoparticle Ensembles. Journal of Physical Chemistry B, 2004, 108, 9943-9949.	2.6	92
39	Shape-dependent electrocatalysis: formic acid electrooxidation on cubic Pd nanoparticles. Physical Chemistry Chemical Physics, 2012, 14, 10258.	2.8	90
40	Pd Adatom Decorated (100) Preferentially Oriented Pt Nanoparticles for Formic Acid Electrooxidation. Angewandte Chemie - International Edition, 2010, 49, 6998-7001.	13.8	86
41	Characterization of the Surface Structure of Gold Nanoparticles and Nanorods Using Structure Sensitive Reactions. Journal of Physical Chemistry B, 2005, 109, 12651-12654.	2.6	85
42	Identical Location Transmission Electron Microscopy Imaging of Site-Selective Pt Nanocatalysts: Electrochemical Activation and Surface Disordering. Journal of the American Chemical Society, 2015, 137, 14992-14998.	13.7	85
43	Electrochemical and electrocatalytic behaviour of platinumâ€“palladium nanoparticle alloys. Electrochemistry Communications, 2002, 4, 716-721.	4.7	84
44	Specific surface reactions for identification of platinum surface domains. Electrochimica Acta, 2005, 50, 4308-4317.	5.2	83
45	Understanding the Effect of the Adatoms in the Formic Acid Oxidation Mechanism on Pt(111) Electrodes. ACS Catalysis, 2015, 5, 645-654.	11.2	81
46	Formic Acid Electrooxidation on Nobleâ€Metal Electrodes: Role and Mechanistic Implications of pH, Surface Structure, and Anion Adsorption. ChemElectroChem, 2014, 1, 1075-1083.	3.4	77
47	Recent progress in oxygen reduction electrocatalysis on Pd-based catalysts. Journal of Electroanalytical Chemistry, 2016, 780, 327-336.	3.8	77
48	Effect of purification of carbon nanotubes on their electrocatalytic properties for oxygen reduction in acid solution. Carbon, 2011, 49, 4031-4039.	10.3	76
49	Electroreduction of oxygen on Pt nanoparticle/carbon nanotube nanocomposites in acid and alkaline solutions. Electrochimica Acta, 2010, 55, 794-803.	5.2	74
50	Evaluating the ozone cleaning treatment in shape-controlled Pt nanoparticles: Evidences of atomic surface disordering. Electrochemistry Communications, 2011, 13, 502-505.	4.7	74
51	Effects of the anion adsorption and pH on the formic acid oxidation reaction on Pt(111) electrodes. Electrochimica Acta, 2014, 140, 511-517.	5.2	70
52	Further Insights into the Formic Acid Oxidation Mechanism on Platinum: pH and Anion Adsorption Effects. Electrochimica Acta, 2015, 180, 479-485.	5.2	70
53	Electroreduction of oxygen on Vulcan carbon supported Pd nanoparticles and Pdâ€“M nanoalloys in acid and alkaline solutions. Electrochimica Acta, 2011, 56, 6702-6708.	5.2	68
54	CO2 electroreduction to formate: Continuous single-pass operation in a filter-press reactor at high current densities using Bi gas diffusion electrodes. Journal of CO2 Utilization, 2019, 34, 12-19.	6.8	68

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55	Bi-modified Pt Electrodes toward Glycerol Electrooxidation in Alkaline Solution: Effects on Activity and Selectivity. ACS Catalysis, 2019, 9, 5104-5110.	11.2	68
56	Determination of (111) Ordered Domains on Platinum Electrodes by Irreversible Adsorption of Bismuth. Analytical Chemistry, 2005, 77, 5317-5323.	6.5	66
57	<I>In Situ</I> Surface Characterization and Oxygen Reduction Reaction on Shape-Controlled Gold Nanoparticles. Journal of Nanoscience and Nanotechnology, 2009, 9, 2256-2273.	0.9	65
58	Formic acid electrooxidation on Bi-modified polyoriented and preferential (111) Pt nanoparticles. Physical Chemistry Chemical Physics, 2009, 11, 416-424.	2.8	65
59	CO monolayer oxidation on stepped Pt(S) [(nâ˜1)(100)Ã—(110)] surfaces. Electrochimica Acta, 2009, 54, 4459-4466.	5.2	62
60	Evidence by SERS of azide anion participation in ammonia electrooxidation in alkaline medium on nanostructured Pt electrodes. Electrochemistry Communications, 2006, 8, 102-106.	4.7	61
61	Electrocatalysis on shape-controlled metal nanoparticles: Progress in surface cleaning methodologies. Current Opinion in Electrochemistry, 2017, 1, 34-39.	4.8	58
62	Electrochemical characterization of irreversibly adsorbed germanium on platinum stepped surfaces vicinal to Pt(100). Electrochimica Acta, 2005, 50, 3111-3121.	5.2	57
63	Improving trade-offs in the figures of merit of gas-phase single-pass continuous CO2 electrocatalytic reduction to formate. Chemical Engineering Journal, 2021, 405, 126965.	12.7	57
64	On the behavior of the Pt(100) and vicinal surfaces in alkaline media. Electrochimica Acta, 2011, 58, 184-192.	5.2	55
65	Nanoparticles-on-electrode approach forin situ surface-enhanced Raman spectroscopy studies with platinum-group metals: examples and prospects. Journal of Raman Spectroscopy, 2005, 36, 613-622.	2.5	54
66	Surface structure and anion effects in the oxidation of ethanol on platinum nanoparticles. Journal of Materials Chemistry A, 2013, 1, 7068.	10.3	52
67	Electrodeposited platinum thin films with preferential (100) orientation: Characterization and electrocatalytic properties for ammonia and formic acidÂoxidation. Journal of Power Sources, 2013, 225, 323-329.	7.8	52
68	Towards More Active and Stable Electrocatalysts for Formic Acid Electrooxidation: Antimonyâ€Decorated Octahedral Platinum Nanoparticles. Angewandte Chemie - International Edition, 2013, 52, 964-967.	13.8	52
69	Scanning electrochemical microscopy for studying electrocatalysis on shape-controlled gold nanoparticles and nanorods. Electrochimica Acta, 2010, 55, 8252-8257.	5.2	50
70	Nitrate reduction at Pt(100) single crystals and preferentially oriented nanoparticles in neutral media. Catalysis Today, 2013, 202, 2-11.	4.4	50
71	Electrochemical Reduction of CO2 to Formate on Easily Prepared Carbon-Supported Bi Nanoparticles. Molecules, 2019, 24, 2032.	3.8	50
72	Electrochemical performance of low temperature PEMFC with surface tailored carbon nanofibers as catalyst support. International Journal of Hydrogen Energy, 2012, 37, 393-404.	7.1	49

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73	Electrochemical Characterization of Clean Shapeâ€Controlled Pt Nanoparticles Prepared in Presence of Oleylamine/Oleic Acid. Electroanalysis, 2015, 27, 945-956.	2.9	47
74	Enhanced catalytic activity and stability for the electrooxidation of formic acid on lead modified shape controlled platinum nanoparticles. Applied Catalysis B: Environmental, 2017, 201, 48-57.	20.2	47
75	Ethanol oxidation on shape-controlled platinum nanoparticles at different pHs: A combined in situ IR spectroscopy and online mass spectrometry study. Journal of Electroanalytical Chemistry, 2016, 763, 116-124.	3.8	46
76	Oxygen reduction reaction on carbon-supported palladium nanocubes in alkaline media. Electrochemistry Communications, 2016, 64, 9-13.	4.7	44
77	Effect of the nature of (100) surface sites on the electroactivity of macroscopic Pt electrodes for the electrooxidation of ammonia. Electrochemistry Communications, 2012, 22, 197-199.	4.7	43
78	Formic acid oxidation on Pd-modified Pt(100) and Pt(111) electrodes: A DEMS study. Journal of Applied Electrochemistry, 2006, 36, 1207-1214.	2.9	42
79	Electrooxidation of methanol and 2-propanol mixtures at platinum single crystal electrodes. Electrochimica Acta, 2009, 54, 6576-6583.	5.2	42
80	Electrocatalytic hydrogenation of acetophenone using a Polymer Electrolyte Membrane Electrochemical Reactor. Electrochimica Acta, 2013, 91, 69-74.	5.2	40
81	Shapeâ€Dependent Electrocatalysis: Oxygen Reduction on Carbonâ€Supported Gold Nanoparticles. ChemElectroChem, 2014, 1, 1338-1347.	3.4	40
82	Carbon-supported shape-controlled Pt nanoparticle electrocatalysts for direct alcohol fuel cells. Electrochemistry Communications, 2015, 55, 47-50.	4.7	39
83	Understanding the Nernst Equation and Other Electrochemical Concepts: An Easy Experimental Approach for Students. Journal of Chemical Education, 2012, 89, 936-939.	2.3	38
84	Pt supported on carbon nanofibers as electrocatalyst for low temperature polymer electrolyte membrane fuel cells. Electrochemistry Communications, 2009, 11, 1081-1084.	4.7	37
85	PdPt alloy nanocubes as electrocatalysts for oxygen reduction reaction in acid media. Electrochemistry Communications, 2015, 56, 11-15.	4.7	37
86	Oxygen electroreduction on carbon-supported Pd nanocubes in acid solutions. Electrochimica Acta, 2016, 188, 301-308.	5.2	37
87	Synthesis of coreâ€“shell silverâ€“platinum nanoparticles, improving shell integrity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 441, 178-183.	4.7	36
88	Formic acid electrooxidation on Bi-modified Pt(110) single crystal electrodes. Journal of Electroanalytical Chemistry, 2009, 637, 63-71.	3.8	35
89	Size and diffusion effects on the oxidation of formic acid and ethanol on platinum nanoparticles. Electrochemistry Communications, 2011, 13, 1194-1197.	4.7	35
90	Catalyst coated membrane electrodes for the gas phase CO2 electroreduction to formate. Catalysis Today, 2020, 346, 58-64.	4.4	35

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91	Tailoring properties of platinum supported catalysts by irreversible adsorbed adatoms toward ethanol oxidation for direct ethanol fuel cells. Applied Catalysis B: Environmental, 2013, 140-141, 378-385.	20.2	33
92	The effect of interfacial pH on the surface atomic elemental distribution and on the catalytic reactivity of shape-selected bimetallic nanoparticles towards oxygen reduction. Nano Energy, 2016, 27, 390-401.	16.0	33
93	Highly active Ag/C nanoparticles containing ultra-low quantities of sub-surface Pt for the electrooxidation of glycerol in alkaline media. Applied Catalysis B: Environmental, 2020, 279, 119369.	20.2	33
94	Carbon materials for the electrooxidation of nucleobases, nucleosides and nucleotides toward cytosine methylation detection: a review. Analytical Methods, 2016, 8, 702-715.	2.7	31
95	Electrochemical Reactivity of Aromatic Molecules at Nanometer-Sized Surface Domains: From Pt(hkl) Single Crystal Electrodes to Preferentially Oriented Platinum Nanoparticles. Journal of the American Chemical Society, 2010, 132, 2233-2242.	13.7	29
96	Ultra-low platinum coverage at gold electrodes and its effect on the hydrogen reaction in acidic solutions. Electrochimica Acta, 2013, 87, 669-675.	5.2	29
97	Rapid screening of silver nanoparticles for the catalytic degradation of chlorinated pollutants in water. Applied Catalysis B: Environmental, 2015, 163, 554-563.	20.2	29
98	Loading effect of carbon-supported platinum nanocubes on oxygen electroreduction. Electrochimica Acta, 2017, 251, 155-166.	5.2	28
99	Electrochemical characterization and reactivity of Pt nanoparticles supported on single-walled carbon nanotubes. Electrochimica Acta, 2007, 52, 5582-5590.	5.2	27
100	Errors in the use of the Kouteckyâ€“Levich plots. Electrochemistry Communications, 2012, 15, 42-45.	4.7	27
101	Formic acid electrooxidation on thallium-decorated shape-controlled platinum nanoparticles: an improvement in electrocatalytic activity. Physical Chemistry Chemical Physics, 2014, 16, 13616-13624.	2.8	27
102	Surface-Enhanced Raman Spectroscopy Study of Ethylene Adsorbed on a Pt Electrode Decorated with Pt Nanoparticles. ChemPhysChem, 2005, 6, 2017-2021.	2.1	26
103	On the behavior of CO oxidation on shape-controlled Pt nanoparticles in alkaline medium. Journal of Electroanalytical Chemistry, 2014, 716, 16-22.	3.8	26
104	Biâ€“Sn nanoparticles for electrochemical denitrification: activity and selectivity towards N2 formation. Electrochimica Acta, 2020, 340, 135914.	5.2	26
105	Bismuth-modified carbon supported Pt nanoparticles as electrocatalysts for direct formic acid fuel cells. Electrochimica Acta, 2012, 63, 105-111.	5.2	25
106	Citrate-Coated, Size-Tunable Octahedral Platinum Nanocrystals: A Novel Route for Advanced Electrocatalysts. ACS Applied Materials & Interfaces, 2018, 10, 41608-41617.	8.0	24
107	Gasâ€“liquidâ€“solid reaction system for <scp>CO₂</scp> electroreduction to formate without using supporting electrolyte. AICHE Journal, 2020, 66, e16299.	3.6	24
108	Bragg Coherent Diffraction Imaging for In Situ Studies in Electrocatalysis. ACS Nano, 2021, 15, 6129-6146.	14.6	24

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109	Understanding CO oxidation reaction on platinum nanoparticles. Journal of Electroanalytical Chemistry, 2017, 793, 126-136.	3.8	22
110	Spectroelectrochemical Study of the Photoinduced Catalytic Formation of 4,4â€²-Dimercaptoazobenzene from 4-Aminobenzenethiol Adsorbed on Nanostructured Copper. Journal of Physical Chemistry C, 2015, 119, 12312-12324.	3.1	21
111	Structure and morphology of shape-controlled Pd nanocrystals. Journal of Applied Crystallography, 2015, 48, 1534-1542.	4.5	21
112	State of the art in the electrochemical characterization of the surface structure of shape-controlled Pt, Au, and Pd nanoparticles. Current Opinion in Electrochemistry, 2020, 22, 65-71.	4.8	21
113	Synthesis and Electrocatalytic Properties of H₂SO₄â€induced (100) Pt Nanoparticles Prepared in Waterâ€inâ€Oil Microemulsion. ChemPhysChem, 2014, 15, 1997-2001.	2.1	20
114	Oxidation of ethanol on platinum nanoparticles: surface structure and aggregation effects in alkaline medium. Journal of Solid State Electrochemistry, 2016, 20, 1095-1106.	2.5	20
115	Mobility and Oxidation of Adsorbed CO on Shape-Controlled Pt Nanoparticles in Acidic Medium. Langmuir, 2017, 33, 865-871.	3.5	20
116	Surface Structure Characterization of Shape and Size Controlled Pd Nanoparticles by Cu UPD: A Quantitative Approach. Frontiers in Chemistry, 2019, 7, 527.	3.6	20
117	A combination of SERS and electrochemistry in Pt nanoparticle electrocatalysis: Promotion of formic acid oxidation by ethylidyne. Electrochemistry Communications, 2008, 10, 319-322.	4.7	19
118	Coherent Bragg imaging of 60â€…nm Au nanoparticles under electrochemical control at the NanoMAX beamline. Journal of Synchrotron Radiation, 2019, 26, 1830-1834.	2.4	19
119	Characterization of (111) surface tailored Pt nanoparticles by electrochemistry and X-ray powder diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 83-90.	5.6	18
120	Electrochemical Oxidation of Small Organic Molecules on Au Nanoparticles with Preferential Surface Orientation. ChemElectroChem, 2015, 2, 958-962.	3.4	18
121	On the quality and stability of preferentially oriented (100) Pt nanoparticles: An electrochemical insight. Journal of Electroanalytical Chemistry, 2018, 808, 433-438.	3.8	18
122	Voltammetric Behaviour of 7â€Methylguanine Using Screenâ€printed Graphite Electrodes: towards a Guanine Methylation Electrochemical Sensor. Electroanalysis, 2015, 27, 2766-2772.	2.9	17
123	Electrocatalytic studies on imidazolium based ionic liquids: defining experimental conditions. Physical Chemistry Chemical Physics, 2018, 20, 19160-19167.	2.8	17
124	Shape-controlled metal nanoparticles for electrocatalytic applications. Physical Sciences Reviews, 2019, 4, .	0.8	17
125	Electrochemical Reduction of CO₂ to Formate on Nanoparticulated Biâ”Snâ”Sb Electrodes. ChemElectroChem, 2022, 9, .	3.4	17
126	Electrocatalysis at nanoparticles. SPR Electrochemistry, 0, , 34-70.	0.7	15

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127	Bismuth and CO Coadsorption on Platinum Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 23100-23110.	3.1	15
128	Adatom modified shape-controlled platinum nanoparticles towards ethanol oxidation. Electrochimica Acta, 2016, 196, 270-279.	5.2	15
129	Oxygen crossover effect on palladium and platinum based electrocatalysts during formic acid oxidation studied by scanning electrochemical microscopy. Journal of Electroanalytical Chemistry, 2017, 793, 218-225.	3.8	15
130	Progress in the understanding of surface structure and surfactant influence on the electrocatalytic activity of gold nanoparticles. Electrochimica Acta, 2011, 56, 9568-9574.	5.2	14
131	Electroreduction of Oxygen on PdPt Alloy Nanocubes in Alkaline and Acidic Media. ChemElectroChem, 2017, 4, 2547-2555.	3.4	14
132	Electrocatalytic enhancement of formic acid oxidation reaction by acetonitrile on well-defined platinum surfaces. Electrochimica Acta, 2019, 295, 835-845.	5.2	14
133	Effect of Pd on the Electrocatalytic Activity of Pt towards Oxidation of Ethanol in Alkaline Solutions. Applied Sciences (Switzerland), 2021, 11, 1315.	2.5	14
134	Oxygen reduction reaction on Pd nanoparticles supported on novel mesoporous carbon materials. Electrochimica Acta, 2021, 394, 139132.	5.2	14
135	Selective electrocatalysis of acetaldehyde oxime reduction on (111) sites of platinum single crystal electrodes and nanoparticles surfaces. Journal of Solid State Electrochemistry, 2008, 12, 575-581.	2.5	13
136	Synthesis and structural, magnetic and electrochemical characterization of PtCo nanoparticles prepared by water-in-oil microemulsion. Journal of Nanoparticle Research, 2010, 12, 1149-1159.	1.9	13
137	Pd-Modified Shape-Controlled Pt Nanoparticles Towards Formic Acid Electrooxidation. Electrocatalysis, 2012, 3, 313-323.	3.0	13
138	Electrochemical reactivity and stability of platinum nanoparticles in imidazolium-based ionic liquids. Journal of Solid State Electrochemistry, 2016, 20, 1043-1052.	2.5	13
139	A non-enzymatic ethanol sensor based on a nanostructured catalytic disposable electrode. Analytical Methods, 2017, 9, 5108-5114.	2.7	12
140	Chronoamperometric Study of Ammonia Oxidation in a Direct Ammonia Alkaline Fuel Cell under the Influence of Microgravity. Microgravity Science and Technology, 2017, 29, 253-261.	1.4	12
141	Formic acid electrooxidation on thallium modified platinum single crystal electrodes. Journal of Electroanalytical Chemistry, 2017, 800, 82-88.	3.8	12
142	Three-Dimensional Coherent Bragg Imaging of Rotating Nanoparticles. Physical Review Letters, 2020, 125, 246101.	7.8	12
143	CO2 reduction to formate on an affordable bismuth metal-organic framework based catalyst. Journal of CO2 Utilization, 2022, 59, 101937.	6.8	12
144	SERS on (111) Surface Nanofacets at Pt Nanoparticles: The Case of Acetaldehyde Oxime Reduction. Journal of Physical Chemistry C, 2012, 116, 10781-10789.	3.1	11

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145	Electrochemical synthesis at pre-pilot scale of 1-phenylethanol by cathodic reduction of acetophenone using a solid polymer electrolyte. Electrochemistry Communications, 2013, 34, 316-319.	4.7	11
146	On the activity and stability of Sb2O3/Sb nanoparticles for the electroreduction of CO2 toward formate. Journal of Electroanalytical Chemistry, 2021, 895, 115440.	3.8	11
147	Electrochemical detection of cytosine and 5-methylcytosine on Au(111) surfaces. Electrochemistry Communications, 2016, 65, 27-30.	4.7	10
148	Adatom decorated shape-controlled metal nanoparticles: Advanced electrocatalysts for energy conversion. Current Opinion in Electrochemistry, 2018, 9, 121-128.	4.8	10
149	Electrocatalytic activity of Ni-doped nanoporous carbons in the electrooxidation of propargyl alcohol. Carbon, 2014, 73, 291-302.	10.3	9
150	Electrochemical Characterisation of Platinum Nanoparticles Prepared in a Waterâ€inâ€Oil Microemulsion in the Presence of Different Modifiers and Metal Precursors. ChemElectroChem, 2016, 3, 1601-1608.	3.4	9
151	Structure, surface chemistry and electrochemical de-alloying of bimetallic PtxAg100-x nanoparticles: Quantifying the changes in the surface properties for adsorption and electrocatalytic transformation upon selective Ag removal. Journal of Electroanalytical Chemistry, 2017, 793, 164-173.	3.8	9
152	Small (<5â€…nm), Clean, and Wellâ€Structured Cubic Platinum Nanoparticles: Synthesis and Electrochemical Characterization. ChemElectroChem, 2021, 8, 49-52.	3.4	9
153	Spectroelectrochemical behavior of 4-aminobenzenethiol on nanostructured platinum and silver electrodes. Surface Science, 2015, 631, 213-219.	1.9	8
154	Recent Advances in the Use of Shape-Controlled Metal Nanoparticles in Electrocatalysis. Nanostructure Science and Technology, 2016, , 31-92.	0.1	8
155	Influence of the metal loading on the electrocatalytic activity of carbon-supported (100) Pt nanoparticles. Journal of Solid State Electrochemistry, 2016, 20, 1107-1118.	2.5	7
156	New insights into the performance of an acid-base electrochemical flow battery. Journal of Power Sources, 2021, 506, 230233.	7.8	7
157	Nitrate Reduction on Platinum (111) Surfaces Modifiedl with Bi: Single Crystalsl and Nanoparticles. Zeitschrift Fur Physikalische Chemie, 2012, 226, 901-917.	2.8	6
158	Electrocatalysis on Shape-Controlled Pt Nanoparticles. , 2016, , 111-170.		6
159	Gold supported catalytic layer: An intermediate step between fundamental and applied fuel cell studies. Electrochimica Acta, 2009, 54, 7071-7077.	5.2	5
160	Mechanistic Framework for the Formation of Different Sulfur Species by Electron Irradiation of n-Dodecanethiol Self-Assembled Monolayers on Au(111) and Au(100). Journal of Physical Chemistry C, 2020, 124, 22591-22600.	3.1	5
161	Oxygen electroreduction on small (<10 nm) and {100}-oriented Pt nanoparticles. Electrochimica Acta, 2022, 403, 139631.	5.2	5
162	Electrosynthesis of L-Cysteine on a Dispersed Pb/Carbon Black Electrode. Journal of the Electrochemical Society, 2009, 156, E154.	2.9	4

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163	Alkylidynes-modified Pt nanoparticles: A spectroelectrochemical (SERS) and electrocatalytic study. Electrochimica Acta, 2009, 54, 6971-6977.	5.2	4
164	Imaging decorated platinum single crystal electrodes by scanning electrochemical microscopy. Electrochimica Acta, 2011, 56, 10708-10712.	5.2	4
165	Ethanol Electrooxidation on PtSnNi/C Nanoparticles Prepared in Water-In-Oil Microemulsion. ECS Transactions, 2011, 41, 1307-1316.	0.5	4
166	Do You Really Understand the Electrochemical Nernst Equation?. Electrocatalysis, 2013, 4, 1-9.	3.0	4
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