

JosÃ© Solla-GullÃ³n

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6974872/publications.pdf>

Version: 2024-02-01

180
papers

10,029
citations

23879

60
h-index

45040

94
g-index

184
all docs

184
docs citations

184
times ranked

9257
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen electroreduction on small (<10 nm) and {100}-oriented Pt nanoparticles. <i>Electrochimica Acta</i> , 2022, 403, 139631.	2.6	5
2	Electrochemical Reduction of CO ₂ to Formate on Nanoparticulated Bi-Sn-Sb Electrodes. <i>ChemElectroChem</i> , 2022, 9, .	1.7	17
3	CO ₂ reduction to formate on an affordable bismuth metal-organic framework based catalyst. <i>Journal of CO₂ Utilization</i> , 2022, 59, 101937.	3.3	12
4	Small (<5 nm), Clean, and Well-Structured Cubic Platinum Nanoparticles: Synthesis and Electrochemical Characterization. <i>ChemElectroChem</i> , 2021, 8, 49-52.	1.7	9
5	Improving trade-offs in the figures of merit of gas-phase single-pass continuous CO ₂ electrocatalytic reduction to formate. <i>Chemical Engineering Journal</i> , 2021, 405, 126965.	6.6	57
6	Electrochemical reduction of CO ₂ using shape-controlled nanoparticles. , 2021, , 155-181.		0
7	Effect of Pd on the Electrocatalytic Activity of Pt towards Oxidation of Ethanol in Alkaline Solutions. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1315.	1.3	14
8	Bragg Coherent Diffraction Imaging for <i>In Situ</i> Studies in Electrocatalysis. <i>ACS Nano</i> , 2021, 15, 6129-6146.	7.3	24
9	On the activity and stability of Sb ₂ O ₃ /Sb nanoparticles for the electroreduction of CO ₂ toward formate. <i>Journal of Electroanalytical Chemistry</i> , 2021, 895, 115440.	1.9	11
10	Formic acid electrooxidation on small, {1 0 0} structured, and Pd decorated carbon-supported Pt nanoparticles. <i>Journal of Catalysis</i> , 2021, 400, 140-147.	3.1	4
11	New insights into the performance of an acid-base electrochemical flow battery. <i>Journal of Power Sources</i> , 2021, 506, 230233.	4.0	7
12	Oxygen reduction reaction on Pd nanoparticles supported on novel mesoporous carbon materials. <i>Electrochimica Acta</i> , 2021, 394, 139132.	2.6	14
13	Catalyst coated membrane electrodes for the gas phase CO ₂ electroreduction to formate. <i>Catalysis Today</i> , 2020, 346, 58-64.	2.2	35
14	Oxygen reduction reaction on nanostructured Pt-based electrocatalysts: A review. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 31775-31797.	3.8	127
15	Highly active Ag/C nanoparticles containing ultra-low quantities of sub-surface Pt for the electrooxidation of glycerol in alkaline media. <i>Applied Catalysis B: Environmental</i> , 2020, 279, 119369.	10.8	33
16	Mechanistic Framework for the Formation of Different Sulfur Species by Electron Irradiation of <i>n</i> -Dodecanethiol Self-Assembled Monolayers on Au(111) and Au(100). <i>Journal of Physical Chemistry C</i> , 2020, 124, 22591-22600.	1.5	5
17	Three-Dimensional Coherent Bragg Imaging of Rotating Nanoparticles. <i>Physical Review Letters</i> , 2020, 125, 246101.	2.9	12
18	State of the art in the electrochemical characterization of the surface structure of shape-controlled Pt, Au, and Pd nanoparticles. <i>Current Opinion in Electrochemistry</i> , 2020, 22, 65-71.	2.5	21

#	ARTICLE	IF	CITATIONS
19	Gasâ€œliquidâ€œsolid reaction system for CO_2 electroreduction to formate without using supporting electrolyte. <i>AIChE Journal</i> , 2020, 66, e16299.	1.8	24
20	Biâ€œSn nanoparticles for electrochemical denitrification: activity and selectivity towards N_2 formation. <i>Electrochimica Acta</i> , 2020, 340, 135914.	2.6	26
21	Shape-controlled metal nanoparticles for electrocatalytic applications. <i>Physical Sciences Reviews</i> , 2019, 4, .	0.8	17
22	Surface Structure Characterization of Shape and Size Controlled Pd Nanoparticles by Cu UPD: A Quantitative Approach. <i>Frontiers in Chemistry</i> , 2019, 7, 527.	1.8	20
23	Rational Design of Electrocatalytic Interfaces: Cd UPD Mediated Nitrate Reduction on Pd: Au Bimetallic Surfaces. <i>Journal of the Electrochemical Society</i> , 2019, 166, H640-H643.	1.3	4
24	Electrochemical Reduction of CO_2 to Formate on Easily Prepared Carbon-Supported Bi Nanoparticles. <i>Molecules</i> , 2019, 24, 2032.	1.7	50
25	CO_2 electroreduction to formate: Continuous single-pass operation in a filter-press reactor at high current densities using Bi gas diffusion electrodes. <i>Journal of CO_2 Utilization</i> , 2019, 34, 12-19.	3.3	68
26	Plasmon-driven catalysis of adsorbed p-nitroaniline (PNA) by surface-enhanced Raman scattering (SERS): Platinum versus silver. <i>Surface Science</i> , 2019, 687, 17-24.	0.8	3
27	Bi-modified Pt Electrodes toward Glycerol Electrooxidation in Alkaline Solution: Effects on Activity and Selectivity. <i>ACS Catalysis</i> , 2019, 9, 5104-5110.	5.5	68
28	Cu oxide/ZnO-based surfaces for a selective ethylene production from gas-phase CO_2 electroconversion. <i>Journal of CO_2 Utilization</i> , 2019, 31, 135-142.	3.3	97
29	Editorial: Electrocatalysis on Shape-Controlled Nanoparticles. <i>Frontiers in Chemistry</i> , 2019, 7, 885.	1.8	1
30	Electrocatalytic enhancement of formic acid oxidation reaction by acetonitrile on well-defined platinum surfaces. <i>Electrochimica Acta</i> , 2019, 295, 835-845.	2.6	14
31	Coherent Bragg imaging of 60â€œnm Au nanoparticles under electrochemical control at the NanoMAX beamline. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1830-1834.	1.0	19
32	Pt-Rich _{core} /Sn-Rich _{subsurface} /Pt _{skin} Nanocubes As Highly Active and Stable Electrocatalysts for the Ethanol Oxidation Reaction. <i>Journal of the American Chemical Society</i> , 2018, 140, 3791-3797.	6.6	166
33	Adatom decorated shape-controlled metal nanoparticles: Advanced electrocatalysts for energy conversion. <i>Current Opinion in Electrochemistry</i> , 2018, 9, 121-128.	2.5	10
34	On the quality and stability of preferentially oriented (100) Pt nanoparticles: An electrochemical insight. <i>Journal of Electroanalytical Chemistry</i> , 2018, 808, 433-438.	1.9	18
35	Citrate-Coated, Size-Tunable Octahedral Platinum Nanocrystals: A Novel Route for Advanced Electrocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41608-41617.	4.0	24
36	3. Shape-controlled metal nanoparticles for electrocatalytic applications. , 2018, , 103-156.		1

#	ARTICLE	IF	CITATIONS
37	Electrocatalytic studies on imidazolium based ionic liquids: defining experimental conditions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19160-19167.	1.3	17
38	Oxygen crossover effect on palladium and platinum based electrocatalysts during formic acid oxidation studied by scanning electrochemical microscopy. <i>Journal of Electroanalytical Chemistry</i> , 2017, 793, 218-225.	1.9	15
39	Mobility and Oxidation of Adsorbed CO on Shape-Controlled Pt Nanoparticles in Acidic Medium. <i>Langmuir</i> , 2017, 33, 865-871.	1.6	20
40	Electrocatalysis on shape-controlled metal nanoparticles: Progress in surface cleaning methodologies. <i>Current Opinion in Electrochemistry</i> , 2017, 1, 34-39.	2.5	58
41	Sn nanoparticles on gas diffusion electrodes: Synthesis, characterization and use for continuous CO ₂ electroreduction to formate. <i>Journal of CO₂ Utilization</i> , 2017, 18, 222-228.	3.3	152
42	Structure, surface chemistry and electrochemical de-alloying of bimetallic Pt _x Ag _{100-x} nanoparticles: Quantifying the changes in the surface properties for adsorption and electrocatalytic transformation upon selective Ag removal. <i>Journal of Electroanalytical Chemistry</i> , 2017, 793, 164-173.	1.9	9
43	Loading effect of carbon-supported platinum nanocubes on oxygen electroreduction. <i>Electrochimica Acta</i> , 2017, 251, 155-166.	2.6	28
44	Electroreduction of Oxygen on PdPt Alloy Nanocubes in Alkaline and Acidic Media. <i>ChemElectroChem</i> , 2017, 4, 2547-2555.	1.7	14
45	A non-enzymatic ethanol sensor based on a nanostructured catalytic disposable electrode. <i>Analytical Methods</i> , 2017, 9, 5108-5114.	1.3	12
46	Chronoamperometric Study of Ammonia Oxidation in a Direct Ammonia Alkaline Fuel Cell under the Influence of Microgravity. <i>Microgravity Science and Technology</i> , 2017, 29, 253-261.	0.7	12
47	Enhanced catalytic activity and stability for the electrooxidation of formic acid on lead modified shape controlled platinum nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2017, 201, 48-57.	10.8	47
48	Ultra-low platinum coverage at gold electrode surfaces: A different approach to the reversible hydrogen reaction. <i>Journal of Electroanalytical Chemistry</i> , 2017, 793, 41-47.	1.9	2
49	Understanding CO oxidation reaction on platinum nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2017, 793, 126-136.	1.9	22
50	Formic acid electrooxidation on thallium modified platinum single crystal electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2017, 800, 82-88.	1.9	12
51	Recent Advances in the Use of Shape-Controlled Metal Nanoparticles in Electrocatalysis. <i>Nanostructure Science and Technology</i> , 2016, , 31-92.	0.1	8
52	A Facile and Cost-effective Electroanalytical Strategy for the Quantification of Deoxyguanosine and Deoxyadenosine in Oligonucleotides Using Screen-printed Graphite Electrodes. <i>Electroanalysis</i> , 2016, 28, 3066-3074.	1.5	4
53	Recent progress in oxygen reduction electrocatalysis on Pd-based catalysts. <i>Journal of Electroanalytical Chemistry</i> , 2016, 780, 327-336.	1.9	77
54	The effect of interfacial pH on the surface atomic elemental distribution and on the catalytic reactivity of shape-selected bimetallic nanoparticles towards oxygen reduction. <i>Nano Energy</i> , 2016, 27, 390-401.	8.2	33

#	ARTICLE	IF	CITATIONS
55	Electrochemical Characterisation of Platinum Nanoparticles Prepared in a Water-in-Oil Microemulsion in the Presence of Different Modifiers and Metal Precursors. <i>ChemElectroChem</i> , 2016, 3, 1601-1608.	1.7	9
56	Carbon materials for the electrooxidation of nucleobases, nucleosides and nucleotides toward cytosine methylation detection: a review. <i>Analytical Methods</i> , 2016, 8, 702-715.	1.3	31
57	Oxygen electroreduction on carbon-supported Pd nanocubes in acid solutions. <i>Electrochimica Acta</i> , 2016, 188, 301-308.	2.6	37
58	Electrochemical reactivity and stability of platinum nanoparticles in imidazolium-based ionic liquids. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1043-1052.	1.2	13
59	Electrochemical detection of cytosine and 5-methylcytosine on Au(111) surfaces. <i>Electrochemistry Communications</i> , 2016, 65, 27-30.	2.3	10
60	Adatom modified shape-controlled platinum nanoparticles towards ethanol oxidation. <i>Electrochimica Acta</i> , 2016, 196, 270-279.	2.6	15
61	Ethanol oxidation on shape-controlled platinum nanoparticles at different pHs: A combined in situ IR spectroscopy and online mass spectrometry study. <i>Journal of Electroanalytical Chemistry</i> , 2016, 763, 116-124.	1.9	46
62	Oxygen reduction reaction on carbon-supported palladium nanocubes in alkaline media. <i>Electrochemistry Communications</i> , 2016, 64, 9-13.	2.3	44
63	Oxidation of ethanol on platinum nanoparticles: surface structure and aggregation effects in alkaline medium. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1095-1106.	1.2	20
64	Influence of the metal loading on the electrocatalytic activity of carbon-supported (100) Pt nanoparticles. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1107-1118.	1.2	7
65	Electrocatalysis on Shape-Controlled Pt Nanoparticles. , 2016, , 111-170.		6
66	Surface Treatment Strategies on Catalytic Metal Nanoparticles. , 2016, , 1101-1125.		0
67	Electrochemical Oxidation of Small Organic Molecules on Au Nanoparticles with Preferential Surface Orientation. <i>ChemElectroChem</i> , 2015, 2, 958-962.	1.7	18
68	Voltammetric Behaviour of 7-Methylguanine Using Screen-Printed Graphite Electrodes: towards a Guanine Methylation Electrochemical Sensor. <i>Electroanalysis</i> , 2015, 27, 2766-2772.	1.5	17
69	Electrochemical Characterization of Clean Shape-Controlled Pt Nanoparticles Prepared in Presence of Oleylamine/Oleic Acid. <i>Electroanalysis</i> , 2015, 27, 945-956.	1.5	47
70	Towards the understanding of the interfacial pH scale at Pt(1 1 1) electrodes. <i>Electrochimica Acta</i> , 2015, 162, 138-145.	2.6	131
71	Surface Treatment Strategies on Catalytic Metal Nanoparticles. , 2015, , 1-21.		0
72	PdPt alloy nanocubes as electrocatalysts for oxygen reduction reaction in acid media. <i>Electrochemistry Communications</i> , 2015, 56, 11-15.	2.3	37

#	ARTICLE	IF	CITATIONS
73	Spectroelectrochemical Study of the Photoinduced Catalytic Formation of 4,4'-Dimercaptoazobenzene from 4-Aminobenzenethiol Adsorbed on Nanostructured Copper. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12312-12324.	1.5	21
74	Production of methanol from CO ₂ electroreduction at Cu ₂ O and Cu ₂ O/ZnO-based electrodes in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 709-717.	10.8	249
75	Carbon-supported shape-controlled Pt nanoparticle electrocatalysts for direct alcohol fuel cells. <i>Electrochemistry Communications</i> , 2015, 55, 47-50.	2.3	39
76	Structure and morphology of shape-controlled Pd nanocrystals. <i>Journal of Applied Crystallography</i> , 2015, 48, 1534-1542.	1.9	21
77	Identical Location Transmission Electron Microscopy Imaging of Site-Selective Pt Nanocatalysts: Electrochemical Activation and Surface Disorder. <i>Journal of the American Chemical Society</i> , 2015, 137, 14992-14998.	6.6	85
78	Enhanced electrocatalytic activity of Au@Cu core@shell nanoparticles towards CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23690-23698.	5.2	138
79	Elemental Anisotropic Growth and Atomic-Scale Structure of Shape-Controlled Octahedral Pt-Ni-Co Alloy Nanocatalysts. <i>Nano Letters</i> , 2015, 15, 7473-7480.	4.5	156
80	Further Insights into the Formic Acid Oxidation Mechanism on Platinum: pH and Anion Adsorption Effects. <i>Electrochimica Acta</i> , 2015, 180, 479-485.	2.6	70
81	Electrocatalytic reduction of CO ₂ to formate using particulate Sn electrodes: Effect of metal loading and particle size. <i>Applied Energy</i> , 2015, 157, 165-173.	5.1	116
82	Understanding the Effect of the Adatoms in the Formic Acid Oxidation Mechanism on Pt(111) Electrodes. <i>ACS Catalysis</i> , 2015, 5, 645-654.	5.5	81
83	Spectroelectrochemical behavior of 4-aminobenzenethiol on nanostructured platinum and silver electrodes. <i>Surface Science</i> , 2015, 631, 213-219.	0.8	8
84	An Easy Method for Calculating Kinetic Parameters of Electrochemical Mechanisms: Temkin's Formalism. <i>Electrocatalysis</i> , 2015, 6, 148-154.	1.5	4
85	Rapid screening of silver nanoparticles for the catalytic degradation of chlorinated pollutants in water. <i>Applied Catalysis B: Environmental</i> , 2015, 163, 554-563.	10.8	29
86	Formic Acid Electrooxidation on Noble Metal Electrodes: Role and Mechanistic Implications of pH, Surface Structure, and Anion Adsorption. <i>ChemElectroChem</i> , 2014, 1, 1075-1083.	1.7	77
87	Synthesis of core-shell silver-platinum nanoparticles, improving shell integrity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 441, 178-183.	2.3	36
88	Formic acid electrooxidation on thallium-decorated shape-controlled platinum nanoparticles: an improvement in electrocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13616-13624.	1.3	27
89	Bismuth and CO Coadsorption on Platinum Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23100-23110.	1.5	15
90	Shape-Dependent Electrocatalysis: Oxygen Reduction on Carbon-Supported Gold Nanoparticles. <i>ChemElectroChem</i> , 2014, 1, 1338-1347.	1.7	40

#	ARTICLE	IF	CITATIONS
91	Synthesis and Electrocatalytic Properties of H ₂ SO ₄ -Induced (100) Pt Nanoparticles Prepared in Water-in-Oil Microemulsion. <i>ChemPhysChem</i> , 2014, 15, 1997-2001.	1.0	20
92	Effects of the anion adsorption and pH on the formic acid oxidation reaction on Pt(111) electrodes. <i>Electrochimica Acta</i> , 2014, 140, 511-517.	2.6	70
93	On the behavior of CO oxidation on shape-controlled Pt nanoparticles in alkaline medium. <i>Journal of Electroanalytical Chemistry</i> , 2014, 716, 16-22.	1.9	26
94	Electrocatalytic activity of Ni-doped nanoporous carbons in the electrooxidation of propargyl alcohol. <i>Carbon</i> , 2014, 73, 291-302.	5.4	9
95	Synthesis of Pt Nanoparticles in Water-in-Oil Microemulsion: Effect of HCl on Their Surface Structure. <i>Journal of the American Chemical Society</i> , 2014, 136, 1280-1283.	6.6	124
96	Electrochemical synthesis at pre-pilot scale of 1-phenylethanol by cathodic reduction of acetophenone using a solid polymer electrolyte. <i>Electrochemistry Communications</i> , 2013, 34, 316-319.	2.3	11
97	Surface structure and anion effects in the oxidation of ethanol on platinum nanoparticles. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7068.	5.2	52
98	Tailoring properties of platinum supported catalysts by irreversible adsorbed adatoms toward ethanol oxidation for direct ethanol fuel cells. <i>Applied Catalysis B: Environmental</i> , 2013, 140-141, 378-385.	10.8	33
99	Electrodeposited platinum thin films with preferential (100) orientation: Characterization and electrocatalytic properties for ammonia and formic acid oxidation. <i>Journal of Power Sources</i> , 2013, 225, 323-329.	4.0	52
100	Do You Really Understand the Electrochemical Nernst Equation?. <i>Electrocatalysis</i> , 2013, 4, 1-9.	1.5	4
101	Nitrate reduction at Pt(100) single crystals and preferentially oriented nanoparticles in neutral media. <i>Catalysis Today</i> , 2013, 202, 2-11.	2.2	50
102	Towards More Active and Stable Electrocatalysts for Formic Acid Electrooxidation: Antimony-Decorated Octahedral Platinum Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 964-967.	7.2	52
103	Electrocatalytic hydrogenation of acetophenone using a Polymer Electrolyte Membrane Electrochemical Reactor. <i>Electrochimica Acta</i> , 2013, 91, 69-74.	2.6	40
104	Au Electrocatalysis for Oxygen Reduction. <i>Lecture Notes in Energy</i> , 2013, , 483-512.	0.2	2
105	Ultra-low platinum coverage at gold electrodes and its effect on the hydrogen reaction in acidic solutions. <i>Electrochimica Acta</i> , 2013, 87, 669-675.	2.6	29
106	Nitrate Reduction on Platinum (111) Surfaces Modified with Bi: Single Crystals and Nanoparticles. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012, 226, 901-917.	1.4	6
107	Role of surface defect sites: from Pt model surfaces to shape-controlled nanoparticles. <i>Chemical Science</i> , 2012, 3, 136-147.	3.7	109
108	SERS on (111) Surface Nanofacets at Pt Nanoparticles: The Case of Acetaldehyde Oxime Reduction. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10781-10789.	1.5	11

#	ARTICLE	IF	CITATIONS
109	Understanding the Nernst Equation and Other Electrochemical Concepts: An Easy Experimental Approach for Students. <i>Journal of Chemical Education</i> , 2012, 89, 936-939.	1.1	38
110	Effect of the nature of (100) surface sites on the electroactivity of macroscopic Pt electrodes for the electrooxidation of ammonia. <i>Electrochemistry Communications</i> , 2012, 22, 197-199.	2.3	43
111	Shape-dependent electrocatalysis: formic acid electrooxidation on cubic Pd nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10258.	1.3	90
112	Pd-Modified Shape-Controlled Pt Nanoparticles Towards Formic Acid Electrooxidation. <i>Electrocatalysis</i> , 2012, 3, 313-323.	1.5	13
113	Electrochemical Characterization of Shape-Controlled Pt Nanoparticles in Different Supporting Electrolytes. <i>ACS Catalysis</i> , 2012, 2, 901-910.	5.5	238
114	Electrochemical performance of low temperature PEMFC with surface tailored carbon nanofibers as catalyst support. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 393-404.	3.8	49
115	Errors in the use of the Koutecký-Levich plots. <i>Electrochemistry Communications</i> , 2012, 15, 42-45.	2.3	27
116	Electrochemical reduction of oxygen on palladium nanocubes in acid and alkaline solutions. <i>Electrochimica Acta</i> , 2012, 59, 329-335.	2.6	141
117	Bismuth-modified carbon supported Pt nanoparticles as electrocatalysts for direct formic acid fuel cells. <i>Electrochimica Acta</i> , 2012, 63, 105-111.	2.6	25
118	Shape dependent electrocatalysis. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2011, 107, 263.	4.4	138
119	Significantly Enhancing Catalytic Activity of Tetrahedral Pt Nanocrystals by Bi Adatom Decoration. <i>Journal of the American Chemical Society</i> , 2011, 133, 12930-12933.	6.6	132
120	Size and diffusion effects on the oxidation of formic acid and ethanol on platinum nanoparticles. <i>Electrochemistry Communications</i> , 2011, 13, 1194-1197.	2.3	35
121	Progress in the understanding of surface structure and surfactant influence on the electrocatalytic activity of gold nanoparticles. <i>Electrochimica Acta</i> , 2011, 56, 9568-9574.	2.6	14
122	Imaging decorated platinum single crystal electrodes by scanning electrochemical microscopy. <i>Electrochimica Acta</i> , 2011, 56, 10708-10712.	2.6	4
123	On the behavior of the Pt(100) and vicinal surfaces in alkaline media. <i>Electrochimica Acta</i> , 2011, 58, 184-192.	2.6	55
124	Effect of purification of carbon nanotubes on their electrocatalytic properties for oxygen reduction in acid solution. <i>Carbon</i> , 2011, 49, 4031-4039.	5.4	76
125	Evaluating the ozone cleaning treatment in shape-controlled Pt nanoparticles: Evidences of atomic surface disordering. <i>Electrochemistry Communications</i> , 2011, 13, 502-505.	2.3	74
126	Enhanced electrocatalytic activity of cubic Pd nanoparticles towards the oxygen reduction reaction in acid media. <i>Electrochemistry Communications</i> , 2011, 13, 734-737.	2.3	108

#	ARTICLE	IF	CITATIONS
127	Electroreduction of oxygen on Vulcan carbon supported Pd nanoparticles and Pdâ€M nanoalloys in acid and alkaline solutions. <i>Electrochimica Acta</i> , 2011, 56, 6702-6708.	2.6	68
128	Ethanol Electrooxidation on PtSnNi/C Nanoparticles Prepared in Water-In-Oil Microemulsion. <i>ECS Transactions</i> , 2011, 41, 1307-1316.	0.3	4
129	Synthesis and structural, magnetic and electrochemical characterization of PtCo nanoparticles prepared by water-in-oil microemulsion. <i>Journal of Nanoparticle Research</i> , 2010, 12, 1149-1159.	0.8	13
130	Pd Adatom Decorated (100) Preferentially Oriented Pt Nanoparticles for Formic Acid Electrooxidation. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6998-7001.	7.2	86
131	CO electrooxidation on carbon supported platinum nanoparticles: Effect of aggregation. <i>Journal of Electroanalytical Chemistry</i> , 2010, 644, 117-126.	1.9	117
132	Characterization of (111) surface tailored Pt nanoparticles by electrochemistry and X-ray powder diffraction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 528, 83-90.	2.6	18
133	Electroreduction of oxygen on Pt nanoparticle/carbon nanotube nanocomposites in acid and alkaline solutions. <i>Electrochimica Acta</i> , 2010, 55, 794-803.	2.6	74
134	The potential of zero total charge of Pt nanoparticles and polycrystalline electrodes with different surface structure: The role of anion adsorption in fundamental electrocatalysis. <i>Electrochimica Acta</i> , 2010, 55, 7982-7994.	2.6	171
135	Scanning electrochemical microscopy for studying electrocatalysis on shape-controlled gold nanoparticles and nanorods. <i>Electrochimica Acta</i> , 2010, 55, 8252-8257.	2.6	50
136	Formic Acid Oxidation on Shape-Controlled Pt Nanoparticles Studied by Pulsed Voltammetry. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13802-13812.	1.5	101
137	Imaging Structure Sensitive Catalysis on Different Shape-Controlled Platinum Nanoparticles. <i>Journal of the American Chemical Society</i> , 2010, 132, 5622-5624.	6.6	220
138	Electrochemical Reactivity of Aromatic Molecules at Nanometer-Sized Surface Domains: From Pt(<i>hkl</i>) Single Crystal Electrodes to Preferentially Oriented Platinum Nanoparticles. <i>Journal of the American Chemical Society</i> , 2010, 132, 2233-2242.	6.6	29
139	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
140	Electrosynthesis of L-Cysteine on a Dispersed Pb/Carbon Black Electrode. <i>Journal of the Electrochemical Society</i> , 2009, 156, E154.	1.3	4
141	CO monolayer oxidation on stepped Pt(S) [(nâˆ’1)(100)Ã—(110)] surfaces. <i>Electrochimica Acta</i> , 2009, 54, 4459-4466.	2.6	62
142	Pt supported on carbon nanofibers as electrocatalyst for low temperature polymer electrolyte membrane fuel cells. <i>Electrochemistry Communications</i> , 2009, 11, 1081-1084.	2.3	37
143	Alkylidynes-modified Pt nanoparticles: A spectroelectrochemical (SERS) and electrocatalytic study. <i>Electrochimica Acta</i> , 2009, 54, 6971-6977.	2.6	4
144	Formic acid electrooxidation on Bi-modified Pt(110) single crystal electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2009, 637, 63-71.	1.9	35

#	ARTICLE	IF	CITATIONS
145	Electrooxidation of methanol and 2-propanol mixtures at platinum single crystal electrodes. <i>Electrochimica Acta</i> , 2009, 54, 6576-6583.	2.6	42
146	Gold supported catalytic layer: An intermediate step between fundamental and applied fuel cell studies. <i>Electrochimica Acta</i> , 2009, 54, 7071-7077.	2.6	5
147	Formic acid electrooxidation on Bi-modified polyoriented and preferential (111) Pt nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 416-424.	1.3	65
148	Selective electrocatalysis of acetaldehyde oxime reduction on (111) sites of platinum single crystal electrodes and nanoparticles surfaces. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 575-581.	1.2	13
149	A combination of SERS and electrochemistry in Pt nanoparticle electrocatalysis: Promotion of formic acid oxidation by ethylidyne. <i>Electrochemistry Communications</i> , 2008, 10, 319-322.	2.3	19
150	Shape-dependent electrocatalysis: methanol and formic acid electrooxidation on preferentially oriented Pt nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 3689.	1.3	265
151	Hydrogenation of $\hat{1}^{\pm}$, $\hat{1}^2$ unsaturated aldehydes over polycrystalline, (111) and (100) preferentially oriented Pt nanoparticles supported on carbon. <i>Journal of Catalysis</i> , 2008, 253, 159-166.	3.1	95
152	Surface characterization of platinum electrodes. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1359-1373.	1.3	351
153	Electrochemistry of Shape-Controlled Catalysts: Oxygen Reduction Reaction on Cubic Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14078-14083.	1.5	145
154	Electrochemical characterization and reactivity of Pt nanoparticles supported on single-walled carbon nanotubes. <i>Electrochimica Acta</i> , 2007, 52, 5582-5590.	2.6	27
155	Screening of electrocatalysts for direct ammonia fuel cell: Ammonia oxidation on PtMe (Me: Ir, Rh, Pd). <i>Journal of Electroanalytical Chemistry</i> , 2006, 60, 144-148.	4.0	144
156	Evidence by SERS of azide anion participation in ammonia electrooxidation in alkaline medium on nanostructured Pt electrodes. <i>Electrochemistry Communications</i> , 2006, 8, 102-106.	2.3	61
157	CO monolayer oxidation on semi-spherical and preferentially oriented (100) and (111) platinum nanoparticles. <i>Electrochemistry Communications</i> , 2006, 8, 189-194.	2.3	160
158	DEMS study of ammonia oxidation on platinum basal planes. <i>Journal of Electroanalytical Chemistry</i> , 2006, 588, 331-338.	1.9	99
159	Formic acid oxidation on Pd-modified Pt(100) and Pt(111) electrodes: A DEMS study. <i>Journal of Applied Electrochemistry</i> , 2006, 36, 1207-1214.	1.5	42
160	Methanol oxidation on gold nanoparticles in alkaline media: Unusual electrocatalytic activity. <i>Electrochimica Acta</i> , 2006, 52, 1662-1669.	2.6	128
161	Specific surface reactions for identification of platinum surface domains. <i>Electrochimica Acta</i> , 2005, 50, 4308-4317.	2.6	83
162	Electrochemical characterization of irreversibly adsorbed germanium on platinum stepped surfaces vicinal to Pt(100). <i>Electrochimica Acta</i> , 2005, 50, 3111-3121.	2.6	57

#	ARTICLE	IF	CITATIONS
163	Surface-Enhanced Raman Spectroscopy Study of Ethylene Adsorbed on a Pt Electrode Decorated with Pt Nanoparticles. <i>ChemPhysChem</i> , 2005, 6, 2017-2021.	1.0	26
164	Nanoparticles-on-electrode approach for in situ surface-enhanced Raman spectroscopy studies with platinum-group metals: examples and prospects. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 613-622.	1.2	54
165	Ammonia Selective Oxidation on Pt(100) Sites in an Alkaline Medium. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12914-12919.	1.2	118
166	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.	1.2	85
167	Determination of (111) Ordered Domains on Platinum Electrodes by Irreversible Adsorption of Bismuth. <i>Analytical Chemistry</i> , 2005, 77, 5317-5323.	3.2	66
168	In Situ Surface Characterization of Preferentially Oriented Platinum Nanoparticles by Using Electrochemical Structure Sensitive Adsorption Reactions. <i>Journal of Physical Chemistry B</i> , 2004, 108, 13573-13575.	1.2	116
169	Shape-dependent electrocatalysis: ammonia oxidation on platinum nanoparticles with preferential (100) surfaces. <i>Electrochemistry Communications</i> , 2004, 6, 1080-1084.	2.3	218
170	Electrochemical characterization of platinum-ruthenium nanoparticles prepared by water-in-oil microemulsion. <i>Electrochimica Acta</i> , 2004, 49, 5079-5088.	2.6	100
171	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.	1.9	156
172	In Situ Surface Enhanced Raman Spectroscopy on Electrodes with Platinum and Palladium Nanoparticle Ensembles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9943-9949.	1.2	92
173	Electrochemical characterisation of platinum-palladium nanoparticles prepared in a water-in-oil microemulsion. <i>Journal of Electroanalytical Chemistry</i> , 2003, 554-555, 273-284.	1.9	121
174	Synthesis and Electrochemical Decontamination of Platinum-Palladium Nanoparticles Prepared by Water-in-Oil Microemulsion. <i>Journal of the Electrochemical Society</i> , 2003, 150, E104.	1.3	122
175	Electrochemical and electrocatalytic behaviour of platinum-palladium nanoparticle alloys. <i>Electrochemistry Communications</i> , 2002, 4, 716-721.	2.3	84
176	Influence of Pb ²⁺ ions in the H ₂ oxidation on Pt catalyzed hydrogen diffusion anodes in sulfuric acid: presence of oscillatory phenomena. <i>Journal of Power Sources</i> , 2002, 104, 169-174.	4.0	3
177	Methanol Electrooxidation on Platinum/Ruthenium Nanoparticle Catalysts. <i>Journal of Catalysis</i> , 2001, 203, 1-6.	3.1	189
178	Electrochemical characterisation of platinum nanoparticles prepared by microemulsion: how to clean them without loss of crystalline surface structure. <i>Journal of Electroanalytical Chemistry</i> , 2000, 491, 69-77.	1.9	206
179	Electrocatalysis at nanoparticles. <i>SPR Electrochemistry</i> , 0, , 34-70.	0.7	15
180	Continuous gas-phase electrochemical reduction of CO ₂ to formate using Bi Catalyst Coated Membrane Electrodes in a filter press reactor. <i>Journal of Electroanalytical Chemistry</i> , 2000, 491, 69-77.		0