

# Enrique Herrero

## List of Publications by Year in descending order

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215  
papers

13,257  
citations

15880

67  
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32181

105  
g-index

227  
all docs

227  
docs citations

227  
times ranked

8723  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ethanol Electro-oxidation Reaction Selectivity on Platinum in Aqueous Media. ACS Sustainable Chemistry and Engineering, 2023, 11, 4960-4968.	3.2	8
2	Why Methanol Electro-oxidation on Platinum in Water Takes Place Only in the Presence of Adsorbed OH. ACS Catalysis, 2022, 12, 1965-1970.	5.5	36
3	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies. Chemical Reviews, 2022, 122, 6117-6321.	23.0	195
4	Investigating the presence of adsorbed species on Pt steps at low potentials. Nature Communications, 2022, 13, 2550.	5.8	37
5	On the oxidation mechanism of C1-C2 organic molecules on platinum. A comparative analysis. Current Opinion in Electrochemistry, 2021, 25, 100648.	2.5	12
6	Glutamate adsorption on the Au(111) surface at different pH values. Journal of Electroanalytical Chemistry, 2021, 880, 114870.	1.9	2
7	Charge effects on the behavior of CTAB adsorbed on Au(111) electrodes in aqueous solutions. Electrochimica Acta, 2021, 370, 137737.	2.6	3
8	Effect of Pd on the Electrocatalytic Activity of Pt towards Oxidation of Ethanol in Alkaline Solutions. Applied Sciences (Switzerland), 2021, 11, 1315.	1.3	14
9	New insights into the hydrogen peroxide reduction reaction and its comparison with the oxygen reduction reaction in alkaline media on well-defined platinum surfaces. Journal of Catalysis, 2021, 398, 123-132.	3.1	14
10	Cation Effects on Interfacial Water Structure and Hydrogen Peroxide Reduction on Pt(111). ACS Measurement Science Au, 2021, 1, 48-55.	1.9	6
11	Glutamate adsorption on gold electrodes at different pH values. Journal of Electroanalytical Chemistry, 2021, 896, 115148.	1.9	0
12	Role of dissolved CO in the solution on the origin of CO pre-oxidation on Pt(1 1 1)-Type electrodes. Journal of Electroanalytical Chemistry, 2021, 896, 115382.	1.9	0
13	On the behavior of CTAB/CTAOH adlayers on gold single crystal surfaces. Electrochimica Acta, 2021, 391, 138947.	2.6	6
14	Monitoring of CO Binding Sites on Stepped Pt Single Crystal Electrodes in Alkaline Solutions by in Situ FTIR Spectroscopy. Langmuir, 2020, 36, 704-714.	1.6	7
15	Hydrogen peroxide and oxygen reduction studies on Pt stepped surfaces: Surface charge effects and mechanistic consequences. Electrochimica Acta, 2020, 334, 135452.	2.6	25
16	Surface Defects as Ingredients That Can Improve or Inhibit the Pathways for CO Oxidation at Low Overpotentials Using Pt(111)-Type Catalysts. Journal of Physical Chemistry C, 2020, 124, 26583-26595.	1.5	6
17	Adsorbed Formate is the Last Common Intermediate in the Dual-Path Mechanism of the Electrooxidation of Formic Acid. ACS Catalysis, 2020, 10, 8120-8130.	5.5	36
18	Why the activity of the hydrogen oxidation reaction on platinum decreases as pH increases. Electrochimica Acta, 2020, 354, 136620.	2.6	28

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19	Citrate adsorption on gold: Understanding the shaping mechanism of nanoparticles. Journal of Electroanalytical Chemistry, 2020, 875, 114015.	1.9	6
20	Recent progress on oxygen and hydrogen peroxide reduction reactions on Pt single crystal electrodes. Chinese Journal of Catalysis, 2020, 41, 732-738.	6.9	9
21	Electrochemical Behavior of Single Crystal Electrodes on Model Processes. Springer Handbooks, 2020, , 1117-1158.	0.3	0
22	Determination of the potential of zero charge of Pt/CO electrodes using an impinging jet system. Journal of Solid State Electrochemistry, 2020, 24, 2871-2881.	1.2	2
23	Why nitrogen favors oxygen reduction on graphitic materials. Sustainable Energy and Fuels, 2019, 3, 2391-2398.	2.5	13
24	Pt(hkl) surface charge and reactivity. Current Opinion in Electrochemistry, 2019, 17, 97-105.	2.5	33
25	Electrocatalytic Oxidation of Glycerol on Platinum Single Crystals in Alkaline Media. ChemElectroChem, 2019, 6, 4238-4245.	1.7	27
26	Effects of the Interfacial Structure on the Methanol Oxidation on Platinum Single Crystal Electrodes. Surfaces, 2019, 2, 177-192.	1.0	13
27	Acetonitrile Adsorption on Pt Single-Crystal Electrodes and Its Effect on Oxygen Reduction Reaction in Acidic and Alkaline Aqueous Solutions. Journal of Physical Chemistry C, 2019, 123, 2300-2313.	1.5	19
28	Glycerol electrooxidation on Pd modified Au surfaces in alkaline media: Effect of the deposition method. Journal of Chemical Physics, 2019, 150, 041703.	1.2	24
29	The role of formic acid/formate equilibria in the oxidation of formic acid on Pt (111). Electrochemistry Communications, 2019, 98, 10-14.	2.3	24
30	Electrocatalytic enhancement of formic acid oxidation reaction by acetonitrile on well-defined platinum surfaces. Electrochimica Acta, 2019, 295, 835-845.	2.6	14
31	Understanding formic acid oxidation mechanism on platinum single crystal electrodes. Current Opinion in Electrochemistry, 2018, 9, 145-150.	2.5	58
32	On the quality and stability of preferentially oriented (100) Pt nanoparticles: An electrochemical insight. Journal of Electroanalytical Chemistry, 2018, 808, 433-438.	1.9	18
33	Mechanistic aspects of glycerol electrooxidation on Pt(111) electrode in alkaline media. Electrochemistry Communications, 2018, 86, 149-152.	2.3	31
34	Understandings on the Inhibition of Oxygen Reduction Reaction by Bromide Adsorption on Pt(111) Electrodes at Different pH Values. Journal of the Electrochemical Society, 2018, 165, J3045-J3051.	1.3	20
35	Why Citrate Shapes Tetrahedral and Octahedral Colloidal Platinum Nanoparticles in Water. Journal of Physical Chemistry C, 2018, 122, 19004-19014.	1.5	19
36	(Invited) Understanding ORR Reaction on Nitrogen Doped Carbon Materials: Insight from Experiments and Calculations. ECS Meeting Abstracts, 2018, , .	0.0	0

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37	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
38	The Role of Adsorption in the Electrocatalysis of Hydrazine on Platinum Electrodes. <i>ChemElectroChem</i> , 2017, 4, 1130-1134.	1.7	3
39	Effect of pH and Water Structure on the Oxygen Reduction Reaction on platinum electrodes. <i>Electrochimica Acta</i> , 2017, 241, 497-509.	2.6	98
40	Kinetics at Single Crystal Electrodes. , 2017, , 113-146.		0
41	Heterogeneous electrocatalysis of formic acid oxidation on platinum single crystal electrodes. <i>Current Opinion in Electrochemistry</i> , 2017, 4, 26-31.	2.5	23
42	An Aza-Fused $\pi$ -Conjugated Microporous Framework Catalyzes the Production of Hydrogen Peroxide. <i>ACS Catalysis</i> , 2017, 7, 1015-1024.	5.5	83
43	The inhibition of hydrogen peroxide reduction at low potentials on Pt(111): Hydrogen adsorption or interfacial charge?. <i>Electrochemistry Communications</i> , 2017, 85, 32-35.	2.3	28
44	Formic acid oxidation on platinum electrodes: a detailed mechanism supported by experiments and calculations on well-defined surfaces. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21773-21784.	5.2	77
45	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
46	Understanding CO oxidation reaction on platinum nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2017, 793, 126-136.	1.9	22
47	Formic acid electrooxidation on thallium modified platinum single crystal electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2017, 800, 82-88.	1.9	12
48	Understanding the chemisorption-based activation mechanism of the oxygen reduction reaction on nitrogen-doped graphitic materials. <i>Electrochimica Acta</i> , 2016, 204, 245-254.	2.6	28
49	Cleavage of the C-C Bond in the Ethanol Oxidation Reaction on Platinum. Insight from Experiments and Calculations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11590-11597.	1.5	47
50	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
51	Adatom modified shape-controlled platinum nanoparticles towards ethanol oxidation. <i>Electrochimica Acta</i> , 2016, 196, 270-279.	2.6	15
52	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
53	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
54	Charge transfer, bonding conditioning and solvation effect in the activation of the oxygen reduction reaction on unclustered graphitic-nitrogen-doped graphene. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16238-16242.	1.3	20

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55	Borohydride electro-oxidation on Pt single crystal electrodes. <i>Electrochemistry Communications</i> , 2015, 51, 144-147.	2.3	27
56	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
57	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
58	On the activation energy of the formic acid oxidation reaction on platinum electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2015, 742, 90-96.	1.9	30
59	Identical Location Transmission Electron Microscopy Imaging of Site-Selective Pt Nanocatalysts: Electrochemical Activation and Surface Disordering. <i>Journal of the American Chemical Society</i> , 2015, 137, 14992-14998.	6.6	85
60	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
61	Surface structured platinum electrodes for the electrochemical reduction of carbon dioxide in imidazolium based ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23909-23916.	1.3	54
62	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
63	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
64	Thermodynamic studies of anion adsorption at the Pt(111) electrode surface from glycolic acid solutions. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 13-21.	1.2	5
65	New insight on the behavior of the irreversible adsorption and underpotential deposition of thallium on platinum (111) and vicinal surfaces in acid electrolytes. <i>Electrochimica Acta</i> , 2015, 151, 319-325.	2.6	5
66	On the electrochemical properties of platinum stepped surfaces vicinal to the (100) pole. A computational study. <i>Electrochimica Acta</i> , 2014, 125, 666-673.	2.6	9
67	Influence of the CO Adsorption Environment on Its Reactivity with (111) Terrace Sites in Stepped Pt Electrodes under Alkaline Media. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1925-1934.	1.5	36
68	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
69	Fundamental aspects of HCOOH oxidation at platinum single crystal surfaces with basal orientations and modified by irreversibly adsorbed adatoms. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1181-1193.	1.2	26
70	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
71	Oxidation Mechanism of Formic Acid on the Bismuth Adatom-Modified Pt(111) Surface. <i>Journal of the American Chemical Society</i> , 2014, 136, 13110-13113.	6.6	88
72	Ethanol Oxidation on Pt Single-Crystal Electrodes: Surface-Structure Effects in Alkaline Medium. <i>ChemPhysChem</i> , 2014, 15, 2019-2028.	1.0	82

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73	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
74	The breaking of the CC bond in ethylene glycol oxidation at the Pt(111) electrode and its vicinal surfaces. <i>Electrochemistry Communications</i> , 2014, 45, 40-43.	2.3	21
75	Oxygen reduction reaction on stepped platinum surfaces in alkaline media. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15416.	1.3	80
76	Electrochemical and in situ FTIR studies of ethanol adsorption and oxidation on gold single crystal electrodes in alkaline media. <i>Journal of Electroanalytical Chemistry</i> , 2013, 707, 89-94.	1.9	50
77	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
78	Citrate adsorption on Pt{hkl} electrodes and its role in the formation of shaped Pt nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2013, 688, 249-256.	1.9	25
79	CO oxidation on stepped-Pt(111) under electrochemical conditions: insights from theory and experiment. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18671.	1.3	16
80	Do You Really Understand the Electrochemical Nernst Equation?. <i>Electrocatalysis</i> , 2013, 4, 1-9.	1.5	4
81	Au Electrocatalysis for Oxygen Reduction. <i>Lecture Notes in Energy</i> , 2013, , 483-512.	0.2	2
82	Unusually High Activity of Pt Islands on Rh(111) Electrodes for Ethanol Oxidation. <i>ChemCatChem</i> , 2013, 5, 1350-1353.	1.8	12
83	The Role of TiO <sub>2</sub> Doping on RuO <sub>2</sub> -Coated Electrodes for the Water Oxidation Reaction. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6126-6135.	1.5	97
84	Size-Dependent and Step-Modulated Supramolecular Electrochemical Properties of Catechol-Derived Adlayers at Pt{hkl} Surfaces. <i>Langmuir</i> , 2013, 29, 13102-13110.	1.6	1
85	Surface-Sensitive Electrooxidation of Carbon Monoxide in Room Temperature Ionic Liquids. <i>ACS Catalysis</i> , 2013, 3, 2935-2938.	5.5	19
86	Site Selectivity for CO Adsorption and Stripping on Stepped and Kinked Platinum Surfaces in Alkaline Medium. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2903-2913.	1.5	57
87	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
88	Electrocatalytic reduction of carbon dioxide on platinum single crystal electrodes modified with adsorbed adatoms. <i>Journal of Electroanalytical Chemistry</i> , 2012, 668, 51-59.	1.9	25
89	Shape-dependent electrocatalysis: formic acid electrooxidation on cubic Pd nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10258.	1.3	90
90	Electrochemical Characterization of Shape-Controlled Pt Nanoparticles in Different Supporting Electrolytes. <i>ACS Catalysis</i> , 2012, 2, 901-910.	5.5	238

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91	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.	1.3	34
92	The role of the surface structure in the oxidation mechanism of methanol. <i>Journal of Electroanalytical Chemistry</i> , 2011, 662, 43-51.	1.9	54
93	Electrochemical and spectroscopic studies of ethanol oxidation on Pt stepped surfaces modified by tin adatoms. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12163.	1.3	75
94	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
95	Imaging decorated platinum single crystal electrodes by scanning electrochemical microscopy. <i>Electrochimica Acta</i> , 2011, 56, 10708-10712.	2.6	4
96	On the behavior of the Pt(100) and vicinal surfaces in alkaline media. <i>Electrochimica Acta</i> , 2011, 58, 184-192.	2.6	55
97	Electrochemical Oxidation of Pt(1 1 1) Vicinal Surfaces: Effects of Surface Structure and Specific Anion Adsorption. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15509-15515.	1.5	46
98	Effect of the Surface Structure of Pt(100) and Pt(110) on the Oxidation of Carbon Monoxide in Alkaline Solution: an FTIR and Electrochemical Study. <i>Electrocatalysis</i> , 2011, 2, 242-253.	1.5	18
99	Adsorption of Formate and Its Role as Intermediate in Formic Acid Oxidation on Platinum Electrodes. <i>ChemPhysChem</i> , 2011, 12, 1641-1644.	1.0	74
100	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
101	Ethanol Electrooxidation on PtSnNi/C Nanoparticles Prepared in Water-In-Oil Microemulsion. <i>ECS Transactions</i> , 2011, 41, 1307-1316.	0.3	4
102	Breaking the C-C Bond in the Ethanol Oxidation Reaction on Platinum Electrodes: Effect of Steps and Ruthenium Adatoms. <i>ChemPhysChem</i> , 2010, 11, 1391-1394.	1.0	76
103	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
104	CO electrooxidation on carbon supported platinum nanoparticles: Effect of aggregation. <i>Journal of Electroanalytical Chemistry</i> , 2010, 644, 117-126.	1.9	117
105	Surface excesses at very low concentrations from extrapolation of thermodynamic data: A way to explore beyond practical limits from reliable experimental data. <i>Journal of Electroanalytical Chemistry</i> , 2010, 649, 119-125.	1.9	3
106	The behavior of HBF <sub>4</sub> at Pt single crystal electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2010, 646, 100-106.	1.9	11
107	Characterization of (111) surface tailored Pt nanoparticles by electrochemistry and X-ray powder diffraction. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 528, 83-90.	2.6	18
108	Scanning electrochemical microscopy for studying electrocatalysis on shape-controlled gold nanoparticles and nanorods. <i>Electrochimica Acta</i> , 2010, 55, 8252-8257.	2.6	50

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109	Modeling CO Oxidation on Pt(111) Electrodes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 14154-14163.	1.5	37
110	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
111	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
112	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
113	Intrinsic activity and poisoning rate for HCOOH oxidation on platinum stepped surfaces. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 8822.	1.3	98
114	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
115	CO monolayer oxidation on stepped Pt(S) [(100) $\bar{1}$ 10] surfaces. <i>Electrochimica Acta</i> , 2009, 54, 4459-4466.	2.6	62
116	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
117	Thermodynamic studies of phosphate adsorption on Pt(111) electrode surfaces in perchloric acid solutions. <i>Electrochimica Acta</i> , 2009, 54, 5836-5843.	2.6	47
118	Formic acid electrooxidation on Bi-modified Pt(110) single crystal electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2009, 637, 63-71.	1.9	35
119	Domain-Selective Reactivity of Hydroquinone-Derived Adlayers at Basal Pt( <i>hkl</i> ) Single-Crystal Electrodes. <i>Langmuir</i> , 2009, 25, 10337-10344.	1.6	8
120	Activation Energies of the Electrooxidation of Formic Acid on Pt(100). <i>Journal of Physical Chemistry C</i> , 2009, 113, 18835-18841.	1.5	32
121	The role of the steps in the cleavage of the C-C bond during ethanol oxidation on platinum electrodes. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 9114.	1.3	112
122	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
123	Intrinsic Activity and Poisoning Rate for HCOOH Oxidation at Pt(100) and Vicinal Surfaces Containing Monoatomic (111) Steps. <i>ChemPhysChem</i> , 2009, 10, 1922-1926.	1.0	95
124	Ethylene adsorption and oxidation on Pt( <i>hkl</i> ) in acidic media. <i>Surface Science</i> , 2008, 602, 84-94.	0.8	25
125	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
126	Peroxodisulphate reduction as a novel probe for the study of platinum single crystal/solution interphases. <i>Journal of Electroanalytical Chemistry</i> , 2008, 612, 269-276.	1.9	24



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127	Ethanol electrooxidation onto stepped surfaces modified by Ru deposition: electrochemical and spectroscopic studies. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 3766.	1.3	92
128	Surface characterization of platinum electrodes. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1359-1373.	1.3	351
129	Model System for the Study of 2D Phase Transitions and Supramolecular Interactions at Electrified Interfaces: Hydrogen-Assisted Reductive Desorption of Catechol-Derived Adlayers from Pt(111) Single-Crystal Electrodes. <i>Langmuir</i> , 2008, 24, 3551-3561.	1.6	10
130	Surface structure effects on the electrochemical oxidation of ethanol on platinum single crystal electrodes. <i>Faraday Discussions</i> , 2008, 140, 379-397.	1.6	167
131	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
132	Anion re-adsorption and displacement at platinum single crystal electrodes in CO-containing solutions. <i>Electrochemistry Communications</i> , 2007, 9, 1113-1119.	2.3	31
133	Oxygen reduction on stepped platinum surfaces in acidic media. <i>Journal of Electroanalytical Chemistry</i> , 2007, 599, 333-343.	1.9	330
134	Bulk CO oxidation on platinum electrodes vicinal to the Pt(111) surface. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 1531-1539.	1.2	17
135	Tellurium Adatoms as an In-Situ Surface Probe of (111) Two-Dimensional Domains at Platinum Surfaces. <i>Langmuir</i> , 2006, 22, 10329-10337.	1.6	20
136	Thermodynamic approach to the double layer capacity of a Pt(111) electrode in perchloric acid solutions. <i>Electrochimica Acta</i> , 2006, 51, 3787-3793.	2.6	78
137	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
138	Thermodynamic studies of bromide adsorption at the Pt(111) electrode surface perchloric acid solutions: Comparison with other anions. <i>Journal of Electroanalytical Chemistry</i> , 2006, 591, 149-158.	1.9	52
139	Hydrogen-assisted and CO-assisted reductive desorption of hydroquinone-derived adlayers from Pt(111) single crystal electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2006, 594, 143-151.	1.9	9
140	Potential of zero total charge of platinum single crystals: A local approach to stepped surfaces vicinal to Pt(111). <i>Russian Journal of Electrochemistry</i> , 2006, 42, 1145-1160.	0.3	96
141	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
142	Methanol oxidation on gold nanoparticles in alkaline media: Unusual electrocatalytic activity. <i>Electrochimica Acta</i> , 2006, 52, 1662-1669.	2.6	128
143	Thermodynamic studies of chloride adsorption at the Pt(111) electrode surface from 0.1 M HClO <sub>4</sub> solution. <i>Journal of Electroanalytical Chemistry</i> , 2005, 576, 33-41.	1.9	94
144	Determination of the Gibbs excess of H adsorbed at a Pt(111) electrode surface in the presence of co-adsorbed chloride. <i>Journal of Electroanalytical Chemistry</i> , 2005, 582, 76-84.	1.9	44

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145	Specific surface reactions for identification of platinum surface domains. <i>Electrochimica Acta</i> , 2005, 50, 4308-4317.	2.6	83
146	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
147	Electrochemical reactivity in nanoscale domains: O <sub>2</sub> reduction on a fullerene modified gold surface. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1293.	1.3	18
148	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
149	Determination of (111) Ordered Domains on Platinum Electrodes by Irreversible Adsorption of Bismuth. <i>Analytical Chemistry</i> , 2005, 77, 5317-5323.	3.2	66
150	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
151	On the electrochemical behavior of the Pt(100) vicinal surfaces in bromide solutions. <i>Surface Science</i> , 2004, 560, 269-284.	0.8	58
152	Shape-dependent electrocatalysis: ammonia oxidation on platinum nanoparticles with preferential (100) surfaces. <i>Electrochemistry Communications</i> , 2004, 6, 1080-1084.	2.3	218
153	On the kinetics of oxygen reduction on platinum stepped surfaces in acidic media. <i>Journal of Electroanalytical Chemistry</i> , 2004, 564, 141-150.	1.9	325
154	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
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