

# Juan M Feliu

## List of Publications by Year in descending order

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534  
papers

27,818  
citations

4653

85  
h-index

12933

131  
g-index

553  
all docs

553  
docs citations

553  
times ranked

12932  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacial water reorganization as a pH-dependent descriptor of the hydrogen evolution rate on platinum electrodes. <i>Nature Energy</i> , 2017, 2, .	19.8	791
2	In situ Raman spectroscopic evidence for oxygen reduction reaction intermediates at platinum single-crystal surfaces. <i>Nature Energy</i> , 2019, 4, 60-67.	19.8	478
3	Role of Crystalline Defects in Electrocatalysis: Mechanism and Kinetics of CO Adlayer Oxidation on Stepped Platinum Electrodes. <i>Journal of Physical Chemistry B</i> , 2002, 106, 12938-12947.	1.2	371
4	Defining the transfer coefficient in electrochemistry: An assessment (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2014, 86, 245-258.	0.9	361
5	Surface characterization of platinum electrodes. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1359-1373.	1.3	351
6	Oxygen reduction on stepped platinum surfaces in acidic media. <i>Journal of Electroanalytical Chemistry</i> , 2007, 599, 333-343.	1.9	330
7	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
8	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
9	An irreversible structure sensitive adsorption step in bismuth underpotential deposition at platinum electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 243, 419-433.	0.3	260
10	Cooxidation on stepped Pt[n(111)Å(111)] electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2000, 487, 37-44.	1.9	258
11	Surface Reactivity at Chiral Platinum Surfaces. <i>Langmuir</i> , 1999, 15, 2420-2424.	1.6	246
12	Electrochemical Characterization of Shape-Controlled Pt Nanoparticles in Different Supporting Electrolytes. <i>ACS Catalysis</i> , 2012, 2, 901-910.	5.5	238
13	Study of the charge displacement at constant potential during CO adsorption on Pt(110) and Pt(111) electrodes in contact with a perchloric acid solution. <i>Journal of Electroanalytical Chemistry</i> , 1992, 330, 489-497.	1.9	225
14	Role of Crystalline Defects in Electrocatalysis: CO Adsorption and Oxidation on Stepped Platinum Electrodes As Studied by in situ Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2002, 106, 9863-9872.	1.2	221
15	Shape-dependent electrocatalysis: ammonia oxidation on platinum nanoparticles with preferential (100) surfaces. <i>Electrochemistry Communications</i> , 2004, 6, 1080-1084.	2.3	218
16	Genotype Cytochromes Wire Electricity Producing Bacteria to Electrodes. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4874-4877.	7.2	209
17	Thirty years of platinum single crystal electrochemistry. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 1297-1315.	1.2	204
18	Water dissociation on well-defined platinum surfaces: The electrochemical perspective. <i>Catalysis Today</i> , 2013, 202, 105-113.	2.2	201

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19	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies. <i>Chemical Reviews</i> , 2022, 122, 6117-6321.	23.0	195
20	New information on the unusual adsorption states of Pt(111) in sulphuric acid solutions from potentiostatic adsorbate replacement by CO. <i>Journal of Electroanalytical Chemistry</i> , 1994, 372, 265-268.	1.9	186
21	Mechanism and kinetics of the electrochemical CO adlayer oxidation on Pt(111). <i>Journal of Electroanalytical Chemistry</i> , 2002, 524-525, 242-251.	1.9	176
22	Effect of Adatoms in the Electrocatalysis of HCOOH Oxidation. A Theoretical Model. <i>Langmuir</i> , 1997, 13, 6287-6293.	1.6	172
23	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
24	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
25	Oxygen reduction reaction at Pt single crystals: a critical overview. <i>Catalysis Science and Technology</i> , 2014, 4, 1685.	2.1	167
26	Pt-Rich <sub>core</sub> /Sn-Rich <sub>subsurface</sub> /Pt <sub>skin</sub> 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
27	Validity of double-layer charge-corrected voltammetry for assaying carbon monoxide coverages on ordered transition metals: comparisons with adlayer structures in electrochemical and ultrahigh vacuum environments. <i>Surface Science</i> , 1998, 410, 48-61.	0.8	160
28	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
29	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
30	Whole Cell Electrochemistry of Electricity-Producing Microorganisms Evidence an Adaptation for Optimal Exocellular Electron Transport. <i>Environmental Science &amp; Technology</i> , 2008, 42, 2445-2450.	4.6	155
31	The study of electrochemically active microbial biofilms on different carbon-based anode materials in microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2167-2171.	5.3	154
32	Direct <i>In Situ</i> Raman Spectroscopic Evidence of Oxygen Reduction Reaction Intermediates at High-Index Pt( <i>hkl</i> ) Surfaces. <i>Journal of the American Chemical Society</i> , 2020, 142, 715-719.	6.6	154
33	Effect of Temperature on Hydrogen Adsorption on Pt(111), Pt(110), and Pt(100) Electrodes in 0.1 M HClO <sub>4</sub> . <i>Journal of Physical Chemistry B</i> , 2004, 108, 228-238.	1.2	153
34	Hydrogen evolution on platinum single crystal surfaces: effects of irreversibly adsorbed bismuth and antimony on hydrogen adsorption and evolution on platinum (100). <i>The Journal of Physical Chemistry</i> , 1993, 97, 4769-4776.	2.9	152
35	Poison formation reaction from formic acid and methanol on Pt(111) electrodes modified by irreversibly adsorbed Bi and As. <i>Journal of Electroanalytical Chemistry</i> , 1993, 350, 73-88.	1.9	150
36	Selective electrocatalysis of ammonia oxidation on Pt(100) sites in alkaline medium. <i>Electrochemistry Communications</i> , 2003, 5, 22-26.	2.3	148

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37	Heterogeneous electrocatalysis on well defined platinum surfaces modified by controlled amounts of irreversibly adsorbed adatoms. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989, 258, 89-100.	0.3	145
38	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
39	Screening of electrocatalysts for direct ammonia fuel cell: Ammonia oxidation on PtMe (Me: Ir, Rh, Pd). <i>J Electrochem Soc</i> 156(10):1441-1444 (2009)	4.0	144
40	Electrochemical reduction of oxygen on palladium nanocubes in acid and alkaline solutions. <i>Electrochimica Acta</i> , 2012, 59, 329-335.	2.6	141
41	Shape dependent electrocatalysis. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2011, 107, 263.	4.4	138
42	Potentiostatic charge displacement by exchanging adsorbed species on Pt(111) electrodes in acidic electrolytes with specific anion adsorption. <i>Electrochimica Acta</i> , 1994, 39, 1519-1524.	2.6	136
43	New understanding of the nature of OH adsorption on Pt(111) electrodes. <i>Electrochemistry Communications</i> , 2007, 9, 2789-2794.	2.3	136
44	Dependence of the Potential of Zero Charge of Stepped Platinum (111) Electrodes on the Oriented Step-Edge Density: An Electrochemical Implications and Comparison with Work Function Behavior. <i>Journal of Physical Chemistry B</i> , 2000, 104, 597-605.	1.2	133
45	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
46	Towards the understanding of the interfacial pH scale at Pt(111) electrodes. <i>Electrochimica Acta</i> , 2015, 162, 138-145.	2.6	131
47	Thermodynamic Analysis of the Temperature Dependence of OH Adsorption on Pt(111) and Pt(100) Electrodes in Acidic Media in the Absence of Specific Anion Adsorption. <i>Journal of Physical Chemistry B</i> , 2006, 110, 11344-11351.	1.2	130
48	Formic acid oxidation on Pd + Pt(100) and Pd + Pt(111) electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1994, 376, 151-160.	1.9	128
49	Methanol oxidation on gold nanoparticles in alkaline media: Unusual electrocatalytic activity. <i>Electrochimica Acta</i> , 2006, 52, 1662-1669.	2.6	128
50	Temperature Effects in the Enantiomeric Electro-Oxidation of d- and l-Glucose on Pt(111). <i>Journal of Physical Chemistry B</i> , 1999, 103, 1381-1385.	1.2	127
51	Potential-Dependent Water Orientation on Pt(111), Pt(100), and Pt(110), As Inferred from Laser-Pulsed Experiments. Electrostatic and Chemical Effects. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9290-9304.	1.5	126
52	Definition of the transfer coefficient in electrochemistry (IUPAC Recommendations 2014). <i>Pure and Applied Chemistry</i> , 2014, 86, 259-262.	0.9	124
53	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
54	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

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55	CO electrooxidation on carbon supported platinum nanoparticles: Effect of aggregation. Journal of Electroanalytical Chemistry, 2010, 644, 117-126.	1.9	117
56	Selective Catalytic Reduction at Quasi-Perfect Pt(100) Domains: A Universal Low-Temperature Pathway from Nitrite to N <sub>2</sub> . Journal of the American Chemical Society, 2011, 133, 10928-10939.	6.6	117
57	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.	1.2	116
58	Electrochemical studies in sulphuric acid solutions of adsorbed CO on Pt (111) electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 296, 191-201.	0.3	113
59	Displacement of adsorbed iodine on platinum single-crystal electrodes by irreversible adsorption of CO at controlled potential. Journal of Electroanalytical Chemistry, 1993, 360, 325-335.	1.9	113
60	Sensitivity of Compressed Carbon Monoxide Adlayers on Platinum(111) Electrodes to Long-Range Substrate Structure: Influence of Monoatomic Steps. Langmuir, 2000, 16, 811-816.	1.6	112
61	The role of the steps in the cleavage of the C-C bond during ethanol oxidation on platinum electrodes. Physical Chemistry Chemical Physics, 2009, 11, 9114.	1.3	112
62	Effect of increasing amount of steps on the potential of zero total charge of Pt(111) electrodes. Electrochimica Acta, 1999, 45, 629-637.	2.6	111
63	Poison formation reaction from formic acid on Pt(100) electrodes modified by irreversibly adsorbed bismuth and antimony. Journal of Electroanalytical Chemistry, 1994, 368, 101-108.	1.9	110
64	Role of surface defect sites: from Pt model surfaces to shape-controlled nanoparticles. Chemical Science, 2012, 3, 136-147.	3.7	109
65	Enhanced electrocatalytic activity of cubic Pd nanoparticles towards the oxygen reduction reaction in acid media. Electrochemistry Communications, 2011, 13, 734-737.	2.3	108
66	Oxidation of CO adlayers on Pt(111) at low potentials: an impinging jet study in H <sub>2</sub> SO <sub>4</sub> electrolyte with mathematical modeling of the current transients. Journal of Electroanalytical Chemistry, 1999, 467, 74-84.	1.9	102
67	Formic Acid Oxidation on Shape-Controlled Pt Nanoparticles Studied by Pulsed Voltammetry. Journal of Physical Chemistry C, 2010, 114, 13802-13812.	1.5	101
68	DEMS study of ammonia oxidation on platinum basal planes. Journal of Electroanalytical Chemistry, 2006, 588, 331-338.	1.9	99
69	Electrochemical structure-sensitive behaviour of irreversibly adsorbed palladium on Pt(100), Pt(111) and Pt(110) in an acidic medium. Journal of Electroanalytical Chemistry, 1993, 351, 299-319.	1.9	98
70	Scanning Tunneling Microscopy Images of Ruthenium Submonolayers Spontaneously Deposited on a Pt(111) Electrode. Langmuir, 1999, 15, 4944-4948.	1.6	98
71	Thermodynamic studies of anion adsorption at the Pt(111) electrode surface in sulfuric acid solutions. Journal of Electroanalytical Chemistry, 2002, 534, 79-89.	1.9	98
72	Intrinsic activity and poisoning rate for HCOOH oxidation on platinum stepped surfaces. Physical Chemistry Chemical Physics, 2010, 12, 8822.	1.3	98

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73	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
74	Electrochemical behaviour of CO layers formed by solution dosing at open circuit on Pt(111). Voltammetric determination of CO coverages at full hydrogen adsorption blocking in various acid media. <i>Journal of Electroanalytical Chemistry</i> , 1992, 327, 261-278.	1.9	96
75	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
76	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
77	New observations of a structure sensitive electrochemical behaviour of irreversibly adsorbed arsenic and antimony from acidic solutions on Pt (111) and Pt (100) orientations. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 256, 149-163.	0.3	94
78	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
79	Effect of the Interfacial Water Structure on the Hydrogen Evolution Reaction on Pt(111) Modified with Different Nickel Hydroxide Coverages in Alkaline Media. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 613-623.	4.0	94
80	Heterogeneous electrocatalysis on well defined platinum surfaces modified by controlled amounts of irreversibly adsorbed adatoms. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989, 258, 101-113.	0.3	93
81	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
82	Determination of the potentials of zero total charge of Pt(100) stepped surfaces in the [ ] zone. Effect of the step density and anion adsorption. <i>Journal of Electroanalytical Chemistry</i> , 2003, 552, 115-128.	1.9	91
83	Scanning tunneling microscopy and electrochemical study of the surface structure of Pt(10,10,9) and Pt(11,10,10) electrodes prepared under different cooling conditions. <i>Surface Science</i> , 1999, 440, 259-270.	0.8	90
84	Shape-dependent electrocatalysis: formic acid electrooxidation on cubic Pd nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10258.	1.3	90
85	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
86	On the voltammetric and spectroscopic characterization of nitric oxide adlayers formed from nitrous acid on Pt(h,k,l) and Rh(h,k,l) electrodes. <i>Electrochimica Acta</i> , 1996, 41, 729-745.	2.6	87
87	Sequential Pt(111) oxide formation in perchloric acid: An electrochemical study of surface species inter-conversion. <i>Journal of Electroanalytical Chemistry</i> , 2013, 688, 360-370.	1.9	87
88	Heterogeneous electrocatalysis on well-defined platinum surfaces modified by controlled amounts of irreversibly adsorbed adatoms. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989, 261, 113-125.	0.3	86
89	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
90	Pt(111) surface disorder kinetics in perchloric acid solutions and the influence of specific anion adsorption. <i>Electrochimica Acta</i> , 2012, 82, 558-569.	2.6	86

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91	Electrochemical behaviour of irreversibly adsorbed bismuth on Pt (100) with different degrees of crystalline surface order. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989, 269, 175-189.	0.3	85
92	Potential of zero charge of platinum stepped surfaces: a combined approach of CO charge displacement and N <sub>2</sub> O reduction. <i>Journal of Electroanalytical Chemistry</i> , 2002, 532, 67-74.	1.9	85
93	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
94	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
95	Electrochemical reduction of nitrate on Pt(S)[n(111)–(111)] electrodes in perchloric acid solution. <i>Electrochimica Acta</i> , 2007, 52, 6023-6033.	2.6	84
96	The unusual adsorption states of Pt(111) electrodes studied by an iodine displacement method: comparison with Au(111) electrodes. <i>Surface Science</i> , 1995, 325, 131-138.	0.8	83
97	Specific surface reactions for identification of platinum surface domains. <i>Electrochimica Acta</i> , 2005, 50, 4308-4317.	2.6	83
98	An Aza-Fused $\pi$ -Conjugated Microporous Framework Catalyzes the Production of Hydrogen Peroxide. <i>ACS Catalysis</i> , 2017, 7, 1015-1024.	5.5	83
99	On the different adsorption behavior of bismuth, sulfur, selenium and tellurium on a Pt(775) stepped surface. <i>Electrochemistry Communications</i> , 2000, 2, 636-640.	2.3	82
100	Ethanol Oxidation on Pt Single-Crystal Electrodes: Surface-Structure Effects in Alkaline Medium. <i>ChemPhysChem</i> , 2014, 15, 2019-2028.	1.0	82
101	Temperature Dependence of CO Chemisorption and Its Oxidative Desorption on the Pt(111) Electrode. <i>Langmuir</i> , 2000, 16, 4779-4783.	1.6	81
102	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
103	Evidence of Water Reorientation on Model Electrocatalytic Surfaces from Nanosecond-Laser-Pulsed Experiments. <i>Journal of the American Chemical Society</i> , 2008, 130, 3824-3833.	6.6	80
104	Oxygen reduction reaction on stepped platinum surfaces in alkaline media. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15416.	1.3	80
105	The effect of the cooling atmosphere in the preparation of flame-annealed Pt(111) electrodes on CO adlayer oxidation. <i>Electrochemistry Communications</i> , 2000, 2, 487-490.	2.3	79
106	Formic acid oxidation on Bi Pt(1 1 1) electrode in perchloric acid media. A kinetic study. <i>Journal of Electroanalytical Chemistry</i> , 2003, 554-555, 25-34.	1.9	79
107	Anion adsorption on Pd–Pt(111) electrodes in sulphuric acid solution. <i>Journal of Electroanalytical Chemistry</i> , 2001, 497, 125-138.	1.9	78
108	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



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109	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
110	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
111	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
112	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
113	Temperature dependence of the COads oxidation process on Pt(111), Pt(100), and Pt(110) electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2004, 567, 139-149.	1.9	75
114	Kinetic study of nitrate reduction on Pt(1 1 0) electrode in perchloric acid solution. <i>Electrochimica Acta</i> , 2008, 53, 3626-3634.	2.6	75
115	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
116	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
117	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
118	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
119	Preliminary study of the electrochemical adsorption behaviour of a palladium modified Pt(111) electrode in the whole range of coverage. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991, 310, 429-435.	0.3	73
120	Electrocatalysis of formic acid and CO oxidation on antimony-modified Pt(111) electrodes. <i>Electrochimica Acta</i> , 1998, 44, 1403-1414.	2.6	73
121	Formic acid self-poisoning on bismuth-modified stepped electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2001, 500, 498-509.	1.9	70
122	Thermodynamic Studies of Anion Adsorption at Stepped Platinum(hkl) Electrode Surfaces in Sulfuric Acid Solutions. <i>Journal of Physical Chemistry B</i> , 2002, 106, 12787-12796.	1.2	70
123	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
124	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
125	Anion effects and the mechanism of Cu UPD on Pt(111): X-ray and electrochemical studies. <i>Surface Science</i> , 1995, 335, 101-109.	0.8	69
126	Competitive adsorption of hydrogen and bromide on Pt(100): Mean-field approximation vs. Monte Carlo simulations. <i>Journal of Electroanalytical Chemistry</i> , 2006, 588, 1-14.	1.9	68



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127	Electroreduction of oxygen on Vulcan carbon supported Pd nanoparticles and Pd-M nanoalloys in acid and alkaline solutions. <i>Electrochimica Acta</i> , 2011, 56, 6702-6708.	2.6	68
128	Electrochemical oxidation of ethylene glycol on Pt single crystal electrodes with basal orientations in acidic medium. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 290, 119-133.	0.3	67
129	Comparison of electrosorption at activated polycrystalline and Pt(531) kinked platinum electrodes: surface voltammetry and charge displacement on potentiostatic CO adsorption. <i>Journal of Electroanalytical Chemistry</i> , 1996, 404, 281-289.	1.9	67
130	Determination of (111) Ordered Domains on Platinum Electrodes by Irreversible Adsorption of Bismuth. <i>Analytical Chemistry</i> , 2005, 77, 5317-5323.	3.2	66
131	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
132	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
133	Analysis of temperature effects on hydrogen and OH adsorption on Pt(1 1 1), Pt(1 0 0) and Pt(1 1 0) by means of Gibbs thermodynamics. <i>Journal of Electroanalytical Chemistry</i> , 2010, 649, 69-82.	1.9	65
134	Some reflections on the understanding of the oxygen reduction reaction at Pt(111). <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 956-967.	1.5	65
135	New Insights into the Oxygen Reduction Reaction Mechanism on Pt(111): A Detailed Electrochemical Study. <i>ChemSusChem</i> , 2013, 6, 1091-1100.	3.6	64
136	Formic acid oxidation on Pt(111) electrodes modified by irreversibly adsorbed selenium. <i>Journal of Electroanalytical Chemistry</i> , 1994, 373, 217-225.	1.9	63
137	Role of the Metal and Surface Structure in the Electro-oxidation of Hydrazine in Acidic Media. <i>Journal of the Electrochemical Society</i> , 2002, 149, D35.	1.3	63
138	Heterogeneous electrocatalysis on well-defined platinum surfaces modified by controlled amounts of irreversibly adsorbed adatoms. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991, 305, 229-240.	0.3	62
139	Thermodynamic analysis of (bi)sulphate adsorption on a Pt(111) electrode as a function of pH. <i>Electrochimica Acta</i> , 2008, 53, 6793-6806.	2.6	62
140	CO monolayer oxidation on stepped Pt(S) [(111)(100)-(110)] surfaces. <i>Electrochimica Acta</i> , 2009, 54, 4459-4466.	2.6	62
141	In Situ FTIR Spectroscopy Characterization of the NO Adlayers Formed at Platinum Single Crystal Electrodes in Contact with Acidic Solutions of Nitrite. <i>Langmuir</i> , 1995, 11, 3549-3553.	1.6	61
142	ATR-SEIRAs characterization of surface redox processes in <i>G. sulfurreducens</i> . <i>Bioelectrochemistry</i> , 2010, 78, 25-29.	2.4	61
143	Electrochemical surface reordering of Pt(111): A quantification of the place-exchange process. <i>Journal of Electroanalytical Chemistry</i> , 2011, 662, 17-24.	1.9	61
144	Determination of the Gibbs excess of H and OH adsorbed at a Pt(111) electrode surface using a thermodynamic method. <i>Journal of Electroanalytical Chemistry</i> , 2003, 558, 19-24.	1.9	60

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