Juan M Feliu

List of Publications by Year
in descending order

534 papers	27,818 citations	4658 85 h-index	12946 131 g-index
553 all docs	553 docs citations	553 times ranked	12932 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.	6.7	8
2	Oxygen electroreduction on small (<10 nm) and {100}-oriented Pt nanoparticles. Electrochimica Acta, 2022, 403, 139631.	5.2	5
3	SO2 electrooxidation reaction on Pt single crystal surfaces in acidic media: Electrochemical and in situ FTIR studies. Electrochimica Acta, 2022, 403, 139601.	5.2	8
4	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies. Chemical Reviews, 2022, 122, 6117-6321.	47.7	195
5	Investigating the presence of adsorbed species on Pt steps at low potentials. Nature Communications, 2022, 13, 2550.	12.8	37
6	Small (<5â€...nm), Clean, and Wellâ€Structured Cubic Platinum Nanoparticles: Synthesis and Electrochemical Characterization. ChemElectroChem, 2021, 8, 49-52.	3.4	9
7	The role of adsorbates in electrocatalytic systems: An analysis of model systems with single crystals. Current Opinion in Electrochemistry, 2021, 26, 100666.	4.8	6
8	Glutamate adsorption on the Au(111) surface at different pH values. Journal of Electroanalytical Chemistry, 2021, 880, 114870.	3.8	2
9	Charge effects on the behavior of CTAB adsorbed on Au(111) electrodes in aqueous solutions. Electrochimica Acta, 2021, 370, 137737.	5.2	3
10	Detection of Superoxide Anion Oxygen Reduction Reaction Intermediate on Pt(111) by Infrared Reflection Absorption Spectroscopy in Neutral pH Conditions. Journal of Physical Chemistry Letters, 2021, 12, 1588-1592.	4.6	14
11	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.	6.2	14
12	Cation Effects on Interfacial Water Structure and Hydrogen Peroxide Reduction on Pt(111). ACS Measurement Science Au, 2021, 1, 48-55.	4.4	6
13	Interfacial Water Structure as a Descriptor for Its Electro-Reduction on Ni(OH)₂-Modified Cu(111). ACS Catalysis, 2021, 11, 10324-10332.	11.2	20
14	Formic acid electrooxidation on small, {1 0 0} structured, and Pd decorated carbon-supported Pt nanoparticles. Journal of Catalysis, 2021, 400, 140-147.	6.2	4
15	Surface charge and interfacial acid-base properties: pKa,2 of carbon dioxide at Pt(110)/perchloric acid solution interfaces.. Electrochimica Acta, 2021, 388, 138639.	5.2	2
16	On the behavior of CTAB/CTAOH adlayers on gold single crystal surfaces. Electrochimica Acta, 2021, 391, 138947.	5.2	6
17	Oxygen reduction reaction on Pd nanoparticles supported on novel mesoporous carbon materials. Electrochimica Acta, 2021, 394, 139132.	5.2	14
18	Cu(111) single crystal electrodes: Modifying interfacial properties to tailor electrocatalysis. Electrochimica Acta, 2021, 396, 139222.	5.2	4

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19	Energy and economic advantages of simultaneous hydrogen and biogas production in microbial electrolysis cells as a function of the applied voltage and biomass content. Sustainable Energy and Fuels, 2021, 5, 2003-2017.	4.9	12
20	On the thermodynamics of hydrogen adsorption over Pt(111) in 0.05M NaOH. Journal of Chemical Physics, 2021, 155, 244704.	3.0	3
21	Toward a quantitative theoretical method for infrared and Raman spectroscopic studies on single-crystal electrode/liquid interfaces. Chemical Science, 2020, 11, 1425-1430.	7.4	9
22	Direct In Situ Raman Spectroscopic Evidence of Oxygen Reduction Reaction Intermediates at High-Index Pt(hkl) Surfaces. Journal of the American Chemical Society, 2020, 142, 715-719.	13.7	154
23	Monitoring of CO Binding Sites on Stepped Pt Single Crystal Electrodes in Alkaline Solutions by in Situ FTIR Spectroscopy. Langmuir, 2020, 36, 704-714.	3.5	7
24	Hydrogen peroxide and oxygen reduction studies on Pt stepped surfaces: Surface charge effects and mechanistic consequences. Electrochimica Acta, 2020, 334, 135452.	5.2	25
25	Identity of the Most and Least Active Sites for Activation of the Pathways for CO₂ Formation from the Electro-oxidation of Methanol and Ethanol on Platinum. ACS Catalysis, 2020, 10, 543-555.	11.2	18
26	Role of OH Intermediates during the Au Oxide Electro-Reduction at Low pH Elucidated by Electrochemical Surface-Enhanced Raman Spectroscopy and Implicit Solvent Density Functional Theory. ACS Catalysis, 2020, 10, 12716-12726.	11.2	17
27	Elucidating the Structure of the Cu-Alkaline Electrochemical Interface with the Laser-Induced Temperature Jump Method. Journal of Physical Chemistry C, 2020, 124, 23253-23259.	3.1	24
28	Glucose electro-oxidation on Pt(100) in phosphate buffer solution (pH 7): A mechanistic study. Electrochimica Acta, 2020, 354, 136765.	5.2	17
29	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.	3.1	6
30	Investigation of reactivity of Pt basal planes towards glucose electro-oxidation in neutral solution (pHÂ7): structure-sensitivity dependence and mechanistic study. Journal of Electroanalytical Chemistry, 2020, 878, 114549.	3.8	17
31	Preface: Richard G. Compton. Journal of Electroanalytical Chemistry, 2020, 872, 114526.	3.8	0
32	Activation Energy of Hydrogen Adsorption on Pt(111) in Alkaline Media: An Impedance Spectroscopy Study at Variable Temperatures. ACS Applied Materials & Interfaces, 2020, 12, 42911-42917.	8.0	13
33	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
34	New insights into the Pt(hkl)-alkaline solution interphases from the laser induced temperature jump method. Journal of Electroanalytical Chemistry, 2020, 872, 114068.	3.8	15
35	Why the activity of the hydrogen oxidation reaction on platinum decreases as pH increases. Electrochimica Acta, 2020, 354, 136620.	5.2	28
36	Future tasks in interfacial electrochemistry and surface reactivity. Journal of Solid State Electrochemistry, 2020, 24, 2073-2075.	2.5	6

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37	Structure effects on electrocatalysts. Oxygen reduction on Te-modified Pt(111) surfaces: Site-blocking vs electronic effects. Journal of Chemical Physics, 2020, 152, 134702.	3.0	2
38	Citrate adsorption on gold: Understanding the shaping mechanism of nanoparticles. Journal of Electroanalytical Chemistry, 2020, 875, 114015.	3.8	6
39	Recent progress on oxygen and hydrogen peroxide reduction reactions on Pt single crystal electrodes. Chinese Journal of Catalysis, 2020, 41, 732-738.	14.0	9
40	Single Crystal Electrochemistry as an In Situ Analytical Characterization Tool. Annual Review of Analytical Chemistry, 2020, 13, 201-222.	5.4	17
41	Revisiting the Atomistic Structures at the Interface of Au(111) Electrodeâ€“Sulfuric Acid Solution. Journal of the American Chemical Society, 2020, 142, 9439-9446.	13.7	35
42	The Role of Surface Sites on the Oscillatory Oxidation of Methanol on Stepped Pt[n(111) Ã— (110)] Electrodes. Journal of Physical Chemistry C, 2020, 124, 10993-11004.	3.1	12
43	The influence of stepped Pt[n(111)Ã—(110)] electrodes towards glycerol electrooxidation: Electrochemical and FTIR studies. Electrochimica Acta, 2020, 346, 136187.	5.2	10
44	Determination of Specific Electrocatalytic Sites in the Oxidation of Small Molecules on Crystalline Metal Surfaces. Topics in Current Chemistry Collections, 2020, , 79-103.	0.5	0
45	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.	2.5	2
46	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
47	Interfacial Study of Nickelâ€Modified Pt(111) Surfaces in Phosphateâ€Containing Solutions: Effect on the Hydrogen Evolution Reaction. ChemPhysChem, 2019, 20, 3056-3066.	2.1	8
48	Nitrate anion reduction in aqueous perchloric acid as an electrochemical probe of Pt{1â€¯1â€¯0}-(1â€¯Ã—â€¯1) terrace sites. Journal of Catalysis, 2019, 378, 238-247.	6.2	8
49	Rational Design of Electrocatalytic Interfaces: Cd UPD Mediated Nitrate Reduction on Pd: Au Bimetallic Surfaces. Journal of the Electrochemical Society, 2019, 166, H640-H643.	2.9	4
50	Potential-induced acid-base chemistry of adsorbed species. Electrochimica Acta, 2019, 324, 134793.	5.2	4
51	Oxygen Reduction on Platinum Surfaces in Acid Media: Experimental Evidence of a CECE/DISP Initial Reaction Path. ACS Catalysis, 2019, 9, 2238-2251.	11.2	29
52	Peroxodisulfate reduction on platinum stepped surfaces vicinal to the (110) and (100) poles. Journal of Electroanalytical Chemistry, 2019, 847, 113226.	3.8	5
53	Oxide formation as probe to investigate the competition between water and alcohol molecules for OH species adsorbed on platinum. Electrochimica Acta, 2019, 317, 694-700.	5.2	11
54	Pt(hkl) surface charge and reactivity. Current Opinion in Electrochemistry, 2019, 17, 97-105.	4.8	33

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55	Investigating the M(hkl)| ionic liquid interface by using laser induced temperature jump technique. Electrochimica Acta, 2019, 311, 30-40.	5.2	17
56	Vibrational Properties of Pd Nanocubes. Nanomaterials, 2019, 9, 609.	4.1	5
57	Electrocatalytic Oxidation of Glycerol on Platinum Single Crystals in Alkaline Media. ChemElectroChem, 2019, 6, 4238-4245.	3.4	27
58	Effects of the Interfacial Structure on the Methanol Oxidation on Platinum Single Crystal Electrodes. Surfaces, 2019, 2, 177-192.	2.3	13
59	In-situ STM and AFM Studies on Electrochemical Interfaces in imidazolium-based ionic liquids. Electrochimica Acta, 2019, 309, 11-17.	5.2	34
60	Investigation of the interfacial properties of platinum stepped surfaces using peroxodisulfate reduction as a local probe. Electrochimica Acta, 2019, 307, 553-563.	5.2	11
61	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.	3.1	19
62	Glycerol electrooxidation on Pd modified Au surfaces in alkaline media: Effect of the deposition method. Journal of Chemical Physics, 2019, 150, 041703.	3.0	24
63	The role of formic acid/formate equilibria in the oxidation of formic acid on Pt (111). Electrochemistry Communications, 2019, 98, 10-14.	4.7	24
64	Determination of Specific Electrocatalytic Sites in the Oxidation of Small Molecules on Crystalline Metal Surfaces. Topics in Current Chemistry, 2019, 377, 5.	5.8	11
65	Electrocatalytic enhancement of formic acid oxidation reaction by acetonitrile on well-defined platinum surfaces. Electrochimica Acta, 2019, 295, 835-845.	5.2	14
66	Stark effect or coverage dependence? Disentangling the EC-SEIRAS vibrational shift of sulfate on Au(111). Journal of Chemical Physics, 2019, 150, 041709.	3.0	16
67	Effect of the Interfacial Water Structure on the Hydrogen Evolution Reaction on Pt(111) Modified with Different Nickel Hydroxide Coverages in Alkaline Media. ACS Applied Materials & Interfaces, 2019, 11, 613-623.	8.0	94
68	In situ Raman spectroscopic evidence for oxygen reduction reaction intermediates at platinum single-crystal surfaces. Nature Energy, 2019, 4, 60-67.	39.5	478
69	New probes to surface free charge at electrochemical interfaces with platinum electrodes. Current Opinion in Electrochemistry, 2019, 14, 16-22.	4.8	28
70	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
71	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
72	Understanding formic acid oxidation mechanism on platinum single crystal electrodes. Current Opinion in Electrochemistry, 2018, 9, 145-150.	4.8	58

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73	Unraveling the Nature of Active Sites in Ethanol Electro-oxidation by Site-Specific Marking of a Pt Catalyst with Isotope-Labeled 13CO. Journal of Physical Chemistry Letters, 2018, 9, 1206-1210.	4.6	16
74	Surface Sensitive Nickel Electrodeposition in Deep Eutectic Solvent. ACS Applied Energy Materials, 2018, 1, 1016-1028.	5.1	38
75	Peroxodisulfate reduction as a probe to interfacial charge. Electrochemistry Communications, 2018, 88, 43-46.	4.7	39
76	A conventional symmetric biosupercapacitor based on rusticyanin modified gold electrodes. Journal of Electroanalytical Chemistry, 2018, 816, 253-258.	3.8	9
77	Oxygen reduction at platinum electrodes: The interplay between surface and surroundings properties. Current Opinion in Electrochemistry, 2018, 9, 166-172.	4.8	28
78	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
79	Mechanistic aspects of glycerol electrooxidation on Pt(111) electrode in alkaline media. Electrochemistry Communications, 2018, 86, 149-152.	4.7	31
80	Underpotential deposition of Nickel on platinum single crystal electrodes. Journal of Electroanalytical Chemistry, 2018, 819, 391-400.	3.8	16
81	Citrate-Coated, Size-Tunable Octahedral Platinum Nanocrystals: A Novel Route for Advanced Electrocatalysts. ACS Applied Materials & Interfaces, 2018, 10, 41608-41617.	8.0	24
82	Analysis of catechol, 4-methylcatechol and dopamine electrochemical reactions on different substrate materials and pH conditions. Electrochimica Acta, 2018, 292, 309-321.	5.2	16
83	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.	2.9	20
84	Requirement of initial long-range substrate structure in unusual CO pre-oxidation on Pt(111) electrodes. Electrochemistry Communications, 2018, 97, 60-63.	4.7	6
85	Comprehensive Study of the Enzymatic Catalysis of the Electrochemical Oxygen Reduction Reaction (ORR) by Immobilized Copper Efflux Oxidase (CueO) From Escherichia coli. Frontiers in Chemistry, 2018, 6, 358.	3.6	20
86	Bromide Adsorption on Pt(111) over a Wide Range of pH: Cyclic Voltammetry and CO Displacement Experiments. Journal of Physical Chemistry C, 2018, 122, 18562-18569.	3.1	17
87	Pt-grown carbon nanofibers for detection of hydrogen peroxide. RSC Advances, 2018, 8, 12742-12751.	3.6	12
88	Why Citrate Shapes Tetrahedral and Octahedral Colloidal Platinum Nanoparticles in Water. Journal of Physical Chemistry C, 2018, 122, 19004-19014.	3.1	19
89	Reaction Mechanism for Oxygen Reduction on Platinum: Existence of a Fast Initial Chemical Step and a Soluble Species Different from H₂O₂. ACS Catalysis, 2018, 8, 7931-7943.	11.2	49
90	Regularities of nitrate electroreduction on Pt(S)[n(100)x(110)] stepped platinum single crystals modified by copper adatoms. Electrochimica Acta, 2018, 278, 165-175.	5.2	6

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91	Spectroelectrochemical and Density Functional Theory Study of Squaric Acid Adsorption and Oxidation at Gold Thin Film and Single Crystal Electrodes. Journal of Physical Chemistry C, 2018, 122, 22352-22365.	3.1	5
92	Use of CO as a Cleaning Tool of Highly Active Surfaces in Contact with Ionic Liquids: Ni Deposition on Pt(111) Surfaces in IL. ACS Applied Energy Materials, 2018, 1, 4617-4625.	5.1	8
93	Study of the Pt (111) | electrolyte interface in the region close to neutral pH solutions by the laser induced temperature jump technique. Electrochimica Acta, 2017, 228, 667-676.	5.2	49
94	Trimesic acid on Cu in ethanol: Potential-dependent transition from 2-D adsorbate to 3-D metal-organic framework. Journal of Electroanalytical Chemistry, 2017, 793, 226-234.	3.8	6
95	Mobility and Oxidation of Adsorbed CO on Shape-Controlled Pt Nanoparticles in Acidic Medium. Langmuir, 2017, 33, 865-871.	3.5	20
96	Voltammetric and in situ infrared spectroscopy studies of hydroxyurea electrooxidation at Au(111) electrodes in HClO4 solutions. Electrochemistry Communications, 2017, 76, 34-37.	4.7	3
97	The Role of Adsorption in the Electrocatalysis of Hydrazine on Platinum Electrodes. ChemElectroChem, 2017, 4, 1130-1134.	3.4	3
98	Effect of pH and Water Structure on the Oxygen Reduction Reaction on platinum electrodes. Electrochimica Acta, 2017, 241, 497-509.	5.2	98
99	On the pH Dependence of the Potential of Maximum Entropy of Ir(111) Electrodes. Scientific Reports, 2017, 7, 1246.	3.3	37
100	Kinetics at Single Crystal Electrodes. , 2017, , 113-146.		0
101	Heterogeneous electrocatalysis of formic acid oxidation on platinum single crystal electrodes. Current Opinion in Electrochemistry, 2017, 4, 26-31.	4.8	23
102	Investigating interfacial parameters with platinum single crystal electrodes. Russian Journal of Electrochemistry, 2017, 53, 227-236.	0.9	27
103	Spectroelectrochemical detection of specifically adsorbed cyanurate anions at gold electrodes with (111) orientation in contact with cyanate and cyanuric acid neutral solutions. Journal of Electroanalytical Chemistry, 2017, 800, 167-175.	3.8	8
104	Nonuniform Synergistic Effect of Sn and Ru in Site-Specific Catalytic Activity of Pt at Bimetallic Surfaces toward CO Electro-oxidation. ACS Catalysis, 2017, 7, 3434-3445.	11.2	33
105	Copper underpotential deposition at gold surfaces in contact with a deep eutectic solvent: New insights. Electrochemistry Communications, 2017, 78, 51-55.	4.7	30
106	Interfacial water reorganization as a pH-dependent descriptor of the hydrogen evolution rate on platinum electrodes. Nature Energy, 2017, 2, .	39.5	791
107	Effect of surface structure of platinum single crystal electrodes on the electrochemical reduction of CO2 in methanol-water mixtures. Journal of Electroanalytical Chemistry, 2017, 793, 157-163.	3.8	7
108	Site-specific catalytic activity of model platinum surfaces in different electrolytic environments as monitored by the CO oxidation reaction. Journal of Catalysis, 2017, 345, 216-227.	6.2	20

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109	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
110	An Aza-Fused Ï€-Conjugated Microporous Framework Catalyzes the Production of Hydrogen Peroxide. ACS Catalysis, 2017, 7, 1015-1024.	11.2	83
111	The inhibition of hydrogen peroxide reduction at low potentials on Pt(111): Hydrogen adsorption or interfacial charge?. Electrochemistry Communications, 2017, 85, 32-35.	4.7	28
112	Electrocatalytic oxidation and reduction of H2O2 on Au single crystals. Russian Journal of Electrochemistry, 2017, 53, 1029-1041.	0.9	15
113	Amorphous carbon thin film electrodes with intrinsic Pt-gradient for hydrogen peroxide detection. Electrochimica Acta, 2017, 251, 60-70.	5.2	10
114	Loading effect of carbon-supported platinum nanocubes on oxygen electroreduction. Electrochimica Acta, 2017, 251, 155-166.	5.2	28
115	Formic acid oxidation on platinum electrodes: a detailed mechanism supported by experiments and calculations on well-defined surfaces. Journal of Materials Chemistry A, 2017, 5, 21773-21784.	10.3	77
116	Electroreduction of Oxygen on PdPt Alloy Nanocubes in Alkaline and Acidic Media. ChemElectroChem, 2017, 4, 2547-2555.	3.4	14
117	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
118	DFT and spectroelectrochemical study of cyanate adsorption on gold single crystal electrodes in neutral medium. Journal of Electroanalytical Chemistry, 2017, 793, 147-156.	3.8	9
119	The voltammetry of surfaces vicinal to Pt{110}: Structural complexity simplified by CO cooling. Journal of Electroanalytical Chemistry, 2017, 793, 137-146.	3.8	28
120	Understanding CO oxidation reaction on platinum nanoparticles. Journal of Electroanalytical Chemistry, 2017, 793, 126-136.	3.8	22
121	Formation of cyanuric acid from cyanate adsorbed at gold electrodes. Electrochemistry Communications, 2017, 74, 1-4.	4.7	5
122	Formic acid electrooxidation on thallium modified platinum single crystal electrodes. Journal of Electroanalytical Chemistry, 2017, 800, 82-88.	3.8	12
123	Recent Advances in the Use of Shape-Controlled Metal Nanoparticles in Electrocatalysis. Nanostructure Science and Technology, 2016, , 31-92.	0.1	8
124	Disentangling Catalytic Activity at Terrace and Step Sites on Selectively Ru-Modified Well-Ordered Pt Surfaces Probed by CO Electro-oxidation. ACS Catalysis, 2016, 6, 2997-3007.	11.2	27
125	Cleavage of the Câ€“C Bond in the Ethanol Oxidation Reaction on Platinum. Insight from Experiments and Calculations. Journal of Physical Chemistry C, 2016, 120, 11590-11597.	3.1	47
126	Catalysis of poly(3,4-ethylenedioxythiophene)-Pt(hkl) electrodes towards 2,5-dimercapto-1,3,4-thiadiazole in 1-ethyl-2,3-dimethylimidazolium bis(trifluoromethylsulfonyl)imide. Electrochimica Acta, 2016, 218, 54-57.	5.2	4

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127	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
128	Preface to the Kohei Uosaki Festschrift: Electrochemistry of Ordered Interfacesâ€"Design, Construction, and Interrogation of Functional Electrochemical Interphases with Atomic/Molecular Resolution. Journal of Physical Chemistry C, 2016, 120, 15527-15529.	3.1	2
129	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
130	Potential oscillations during electro-oxidation of ethanol on platinum in alkaline media: The role of surface sites. Electrochemistry Communications, 2016, 72, 83-86.	4.7	13
131	Weakening the C C bond: On the behavior of glyoxylic acid on Pt(111) and its vicinal surfaces. Journal of Electroanalytical Chemistry, 2016, 779, 75-85.	3.8	2
132	Role of the interfacial water structure on electrocatalysis: Oxygen reduction on Pt(1 1 1) in methanesulfonic acid. Catalysis Today, 2016, 262, 95-99.	4.4	16
133	Oxygen electroreduction on carbon-supported Pd nanocubes in acid solutions. Electrochimica Acta, 2016, 188, 301-308.	5.2	37
134	Cu UPD at Pt(100) and stepped faces Pt(610), Pt(410) of platinum single crystal electrodes. Russian Journal of Electrochemistry, 2016, 52, 890-900.	0.9	10
135	Surface Acidâ€"Base Properties of Anion-Adsorbed Species at Pt(111) Electrode Surfaces in Contact with CO₂-Containing Perchloric Acid Solutions. Journal of Physical Chemistry C, 2016, 120, 16191-16199.	3.1	31
136	Electrochemical detection of cytosine and 5-methylcytosine on Au(111) surfaces. Electrochemistry Communications, 2016, 65, 27-30.	4.7	10
137	Two-dimensional Cu deposition on Pt(100) and stepped surfaces of platinum single crystals. Electrochimica Acta, 2016, 194, 385-393.	5.2	3
138	Adatom modified shape-controlled platinum nanoparticles towards ethanol oxidation. Electrochimica Acta, 2016, 196, 270-279.	5.2	15
139	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
140	Characterization of the interfaces between Au(hkl) single crystal basal plane electrodes and [Emmim][Tf 2 N] ionic liquid. Electrochemistry Communications, 2016, 62, 44-47.	4.7	25
141	Oxygen reduction reaction on carbon-supported palladium nanocubes in alkaline media. Electrochemistry Communications, 2016, 64, 9-13.	4.7	44
142	Thermodynamic properties of hydrogenâ€"water adsorption at terraces and steps of Pt(111) vicinal surface electrodes. Surface Science, 2016, 646, 269-281.	1.9	16
143	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
144	Electrochemical Control of the Core-Shell Cobalt-Platinum Nanoparticles. , 2016, , 769-782.		0

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145	Evidence of Local pH Changes during Ethanol Oxidation at Pt Electrodes in Alkaline Media. ChemElectroChem, 2015, 2, 1254-1258.	3.4	30
146	IR and electrochemical synthesis and characterization of thin films of PEDOT grown on platinum single crystal electrodes in [EMMIM]Tf₂N ionic liquid. Beilstein Journal of Organic Chemistry, 2015, 11, 348-357.	2.2	17
147	Strategies for Reducing the Start-up Operation of Microbial Electrochemical Treatments of Urban Wastewater. Energies, 2015, 8, 14064-14077.	3.1	25
148	Trimetallic catalyst based on PtRu modified by irreversible adsorption of Sb for direct ethanol fuel cells. Journal of Catalysis, 2015, 329, 69-77.	6.2	22
149	Role of oxygen-containing species at Pt(111) on the oxygen reduction reaction in acid media. Journal of Solid State Electrochemistry, 2015, 19, 2831-2841.	2.5	14
150	Real-time monitoring of electrochemically active biofilm developing behavior on bioanode by using EQCM and ATR/FTIR. Sensors and Actuators B: Chemical, 2015, 209, 781-789.	7.8	13
151	Borohydride electro-oxidation on Pt single crystal electrodes. Electrochemistry Communications, 2015, 51, 144-147.	4.7	27
152	Electrochemical Characterization of Clean Shapeâ€Controlled Pt Nanoparticles Prepared in Presence of Oleylamine/Oleic Acid. Electroanalysis, 2015, 27, 945-956.	2.9	47
153	Towards the understanding of the interfacial pH scale at Pt(1 1 1) electrodes. Electrochimica Acta, 2015, 162, 138-145.	5.2	131
154	Exploring the interfacial neutral pH region of Pt(111) electrodes. Electrochemistry Communications, 2015, 58, 62-64.	4.7	48
155	Study of the interface Pt(111)/ [Emmim][NTf2] using laser-induced temperature jump experiments. Electrochemistry Communications, 2015, 55, 39-42.	4.7	27
156	PdPt alloy nanocubes as electrocatalysts for oxygen reduction reaction in acid media. Electrochemistry Communications, 2015, 56, 11-15.	4.7	37
157	On the activation energy of the formic acid oxidation reaction on platinum electrodes. Journal of Electroanalytical Chemistry, 2015, 742, 90-96.	3.8	30
158	Carbon-supported shape-controlled Pt nanoparticle electrocatalysts for direct alcohol fuel cells. Electrochemistry Communications, 2015, 55, 47-50.	4.7	39
159	Structure and morphology of shape-controlled Pd nanocrystals. Journal of Applied Crystallography, 2015, 48, 1534-1542.	4.5	21
160	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
161	Understanding the CO Preoxidation and the Intrinsic Catalytic Activity of Step Sites in Stepped Pt Surfaces in Acidic Medium. Journal of Physical Chemistry C, 2015, 119, 20272-20282.	3.1	54
162	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

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163	Electrochemical reactions of catechol, methylcatechol and dopamine at tetrahedral amorphous carbon (ta-C) thin film electrodes. Diamond and Related Materials, 2015, 59, 30-39.	3.9	59
164	Further Insights into the Formic Acid Oxidation Mechanism on Platinum: pH and Anion Adsorption Effects. Electrochimica Acta, 2015, 180, 479-485.	5.2	70
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