

Juan M Feliu

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537
papers

23,390
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119
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553
ext. papers

25,428
ext. citations

5.7
avg, IF

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L-index

#	Paper	IF	Citations
537	Interfacial water reorganization as a pH-dependent descriptor of the hydrogen evolution rate on platinum electrodes. <i>Nature Energy</i> , 2017 , 2,	62.3	505
536	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	3.4	339
535	Surface characterization of platinum electrodes. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 1359-73	3.6	311
534	Oxygen reduction on stepped platinum surfaces in acidic media. <i>Journal of Electroanalytical Chemistry</i> , 2007 , 599, 333-343	4.1	303
533	On the kinetics of oxygen reduction on platinum stepped surfaces in acidic media. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 564, 141-150	4.1	290
532	In situ Raman spectroscopic evidence for oxygen reduction reaction intermediates at platinum single-crystal surfaces. <i>Nature Energy</i> , 2019 , 4, 60-67	62.3	275
531	Defining the transfer coefficient in electrochemistry: An assessment (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2014 , 86, 245-258	2.1	263
530	Shape-dependent electrocatalysis: methanol and formic acid electrooxidation on preferentially oriented Pt nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 3689-98	3.6	244
529	Cooxidation on stepped Pt[n(111)(111)] electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2000 , 487, 37-44	4.1	235
528	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		234
527	Surface Reactivity at Chiral Platinum Surfaces. <i>Langmuir</i> , 1999 , 15, 2420-2424	4	214
526	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	3.4	203
525	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	4.1	203
524	Shape-dependent electrocatalysis: ammonia oxidation on platinum nanoparticles with preferential (1 0 0) surfaces. <i>Electrochemistry Communications</i> , 2004 , 6, 1080-1084	5.1	198
523	Electrochemical Characterization of Shape-Controlled Pt Nanoparticles in Different Supporting Electrolytes. <i>ACS Catalysis</i> , 2012 , 2, 901-910	13.1	196
522	Thirty years of platinum single crystal electrochemistry. <i>Journal of Solid State Electrochemistry</i> , 2011 , 15, 1297-1315	2.6	172
521	Water dissociation on well-defined platinum surfaces: The electrochemical perspective. <i>Catalysis Today</i> , 2013 , 202, 105-113	5.3	166

520	C-type cytochromes wire electricity-producing bacteria to electrodes. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 4874-7	16.4	166
519	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	4.1	164
518	Mechanism and kinetics of the electrochemical CO adlayer oxidation on Pt(111). <i>Journal of Electroanalytical Chemistry</i> , 2002 , 524-525, 242-251	4.1	158
517	Effect of Adatoms in the Electrocatalysis of HCOOH Oxidation. A Theoretical Model. <i>Langmuir</i> , 1997 , 13, 6287-6293	4	157
516	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	6.7	155
515	CO monolayer oxidation on semi-spherical and preferentially oriented (100) and (111) platinum nanoparticles. <i>Electrochemistry Communications</i> , 2006 , 8, 189-194	5.1	151
514	Surface structure effects on the electrochemical oxidation of ethanol on platinum single crystal electrodes. <i>Faraday Discussions</i> , 2008 , 140, 379-97; discussion 417-37	3.6	148
513	Oxygen reduction reaction at Pt single crystals: a critical overview. <i>Catalysis Science and Technology</i> , 2014 , 4, 1685	5.5	142
512	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	1.8	142
511	Whole cell electrochemistry of electricity-producing microorganisms evidence an adaptation for optimal exocellular electron transport. <i>Environmental Science & Technology</i> , 2008 , 42, 2445-50	10.3	137
510	The study of electrochemically active microbial biofilms on different carbon-based anode materials in microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 2167-71	11.8	136
509	Electrochemistry of Shape-Controlled Catalysts: Oxygen Reduction Reaction on Cubic Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14078-14083	3.8	136
508	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	4.1	135
507	Heterogeneous electrocatalysis on well defined platinum surfaces modified by controlled amounts of irreversibly adsorbed adatoms: Part I. Formic acid oxidation on the Pt (111)-Bi system. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989 , 258, 89-100		135
506	Selective electrocatalysis of ammonia oxidation on Pt(1 0 0) sites in alkaline medium. <i>Electrochemistry Communications</i> , 2003 , 5, 22-26	5.1	134
505	Shape dependent electrocatalysis. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2011 , 107, 263		131
504	Effect of Temperature on Hydrogen Adsorption on Pt(111), Pt(110), and Pt(100) Electrodes in 0.1 M HClO ₄ . <i>Journal of Physical Chemistry B</i> , 2004 , 108, 228-238	3.4	131
503	Elemental Anisotropic Growth and Atomic-Scale Structure of Shape-Controlled Octahedral Pt-Ni-Co Alloy Nanocatalysts. <i>Nano Letters</i> , 2015 , 15, 7473-80	11.5	129

502	Electrochemical reduction of oxygen on palladium nanocubes in acid and alkaline solutions. <i>Electrochimica Acta</i> , 2012 , 59, 329-335	6.7	127
501	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		126
500	Pt-Rich/Sn-Rich/Pt Nanocubes As Highly Active and Stable Electrocatalysts for the Ethanol Oxidation Reaction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3791-3797	16.4	124
499	New understanding of the nature of OH adsorption on Pt(111) electrodes. <i>Electrochemistry Communications</i> , 2007 , 9, 2789-2794	5.1	123
498	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	6.7	121
497	Screening of electrocatalysts for direct ammonia fuel cell: Ammonia oxidation on PtMe (Me: Ir, Rh, Pd, Ru) and preferentially oriented Pt(100) nanoparticles. <i>Journal of Power Sources</i> , 2007 , 171, 448-456	8.9	120
496	Dependence of the Potential of Zero Charge of Stepped Platinum (111) Electrodes on the Oriented Step-Edge Density: Electrochemical Implications and Comparison with Work Function Behavior. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 597-605	3.4	120
495	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, 11344-51	3.4	118
494	Significantly enhancing catalytic activity of tetrahexahedral Pt nanocrystals by Bi adatom decoration. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12930-3	16.4	117
493	Formic acid oxidation on Pd + Pt(100) and Pd + Pt(111) electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1994 , 376, 151-160	4.1	115
492	Methanol oxidation on gold nanoparticles in alkaline media: Unusual electrocatalytic activity. <i>Electrochimica Acta</i> , 2006 , 52, 1662-1669	6.7	111
491	Temperature Effects in the Enantiomeric Electro-Oxidation of d- and l-Glucose on Pt{643}S. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 1381-1385	3.4	110
490	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	3.4	107
489	Electrochemical studies in sulphuric acid solutions of adsorbed CO on Pt (111) electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990 , 296, 191-201		107
488	Definition of the transfer coefficient in electrochemistry (IUPAC Recommendations 2014). <i>Pure and Applied Chemistry</i> , 2014 , 86, 259-262	2.1	105
487	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	3.8	104
486	Ammonia selective oxidation on Pt(100) sites in an alkaline medium. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 12914-9	3.4	104
485	CO electrooxidation on carbon supported platinum nanoparticles: Effect of aggregation. <i>Journal of Electroanalytical Chemistry</i> , 2010 , 644, 117-126	4.1	102

484	Sensitivity of Compressed Carbon Monoxide Adlayers on Platinum(111) Electrodes to Long-Range Substrate Structure: Influence of Monoatomic Steps. <i>Langmuir</i> , 2000 , 16, 811-816	4	102
483	Towards the understanding of the interfacial pH scale at Pt(1 1 1) electrodes. <i>Electrochimica Acta</i> , 2015 , 162, 138-145	6.7	101
482	Enhanced electrocatalytic activity of cubic Pd nanoparticles towards the oxygen reduction reaction in acid media. <i>Electrochemistry Communications</i> , 2011 , 13, 734-737	5.1	101
481	Displacement of adsorbed iodine on platinum single-crystal electrodes by irreversible adsorption of CO at controlled potential. <i>Journal of Electroanalytical Chemistry</i> , 1993 , 360, 325-335	4.1	101
480	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, 9114-23	3.6	98
479	Poison formation reaction from formic acid on Pt(100) electrodes modified by irreversibly adsorbed bismuth and antimony. <i>Journal of Electroanalytical Chemistry</i> , 1994 , 368, 101-108	4.1	98
478	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, 1280-3	16.4	96
477	Role of surface defect sites: from Pt model surfaces to shape-controlled nanoparticles. <i>Chemical Science</i> , 2012 , 3, 136-147	9.4	96
476	Effect of increasing amount of steps on the potential of zero total charge of Pt(111) electrodes. <i>Electrochimica Acta</i> , 1999 , 45, 629-637	6.7	96
475	Formic Acid Oxidation on Shape-Controlled Pt Nanoparticles Studied by Pulsed Voltammetry. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13802-13812	3.8	95
474	Oxidation of CO adlayers on Pt(111) at low potentials: an impinging jet study in H ₂ SO ₄ electrolyte with mathematical modeling of the current transients. <i>Journal of Electroanalytical Chemistry</i> , 1999 , 467, 74-84	4.1	95
473	Intrinsic activity and poisoning rate for HCOOH oxidation on platinum stepped surfaces. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 8822-31	3.6	89
472	Intrinsic activity and poisoning rate for HCOOH oxidation at Pt(100) and vicinal surfaces containing monoatomic (111) steps. <i>ChemPhysChem</i> , 2009 , 10, 1922-6	3.2	88
471	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	1.2	88
470	Selective catalytic reduction at quasi-perfect Pt(100) domains: a universal low-temperature pathway from nitrite to N ₂ . <i>Journal of the American Chemical Society</i> , 2011 , 133, 10928-39	16.4	87
469	DEMS study of ammonia oxidation on platinum basal planes. <i>Journal of Electroanalytical Chemistry</i> , 2006 , 588, 331-338	4.1	86
468	Determination of the potentials of zero total charge of Pt(100) stepped surfaces in the \square zone. Effect of the step density and anion adsorption. <i>Journal of Electroanalytical Chemistry</i> , 2003 , 552, 115-128	4.1	86
467	Electrochemical structure-sensitive behaviour of irreversibly adsorbed palladium on Pt(100), Pt(111) and Pt(110) in an acidic medium. <i>Journal of Electroanalytical Chemistry</i> , 1993 , 351, 299-319	4.1	86

466	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		86
465	Ethanol electrooxidation onto stepped surfaces modified by Ru deposition: electrochemical and spectroscopic studies. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 3766-73	3.6	84
464	Characterization of the surface structure of gold nanoparticles and nanorods using structure sensitive reactions. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 12651-4	3.4	84
463	Thermodynamic studies of anion adsorption at the Pt(111) electrode surface in sulfuric acid solutions. <i>Journal of Electroanalytical Chemistry</i> , 2002 , 534, 79-89	4.1	83
462	Thermodynamic studies of chloride adsorption at the Pt(111) electrode surface from 0.1 M HClO ₄ solution. <i>Journal of Electroanalytical Chemistry</i> , 2005 , 576, 33-41	4.1	83
461	Scanning Tunneling Microscopy Images of Ruthenium Submonolayers Spontaneously Deposited on a Pt(111) Electrode. <i>Langmuir</i> , 1999 , 15, 4944-4948	4	83
460	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	4.1	82
459	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	1.8	80
458	Direct Raman Spectroscopic Evidence of Oxygen Reduction Reaction Intermediates at High-Index Pt() Surfaces. <i>Journal of the American Chemical Society</i> , 2020 , 142, 715-719	16.4	80
457	Pd adatom decorated (100) preferentially oriented Pt nanoparticles for formic acid electrooxidation. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6998-7001	16.4	78
456	Potential of zero charge of platinum stepped surfaces: a combined approach of CO charge displacement and N ₂ O reduction. <i>Journal of Electroanalytical Chemistry</i> , 2002 , 532, 67-74	4.1	78
455	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		78
454	Pt(111) surface disorder kinetics in perchloric acid solutions and the influence of specific anion adsorption. <i>Electrochimica Acta</i> , 2012 , 82, 558-569	6.7	77
453	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	5.1	77
452	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	5.1	76
451	Temperature Dependence of CO Chemisorption and Its Oxidative Desorption on the Pt(111) Electrode. <i>Langmuir</i> , 2000 , 16, 4779-4783	4	76
450	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	6.7	76
449	Effect of pH and Water Structure on the Oxygen Reduction Reaction on platinum electrodes. <i>Electrochimica Acta</i> , 2017 , 241, 497-509	6.7	74

448	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	4.1	74
447	Shape-dependent electrocatalysis: formic acid electrooxidation on cubic Pd nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 10258-65	3.6	74
446	Specific surface reactions for identification of platinum surface domains. <i>Electrochimica Acta</i> , 2005 , 50, 4308-4317	6.7	74
445	Breaking the C-C bond in the ethanol oxidation reaction on platinum electrodes: effect of steps and ruthenium adatoms. <i>ChemPhysChem</i> , 2010 , 11, 1391-4	3.2	72
444	Electroreduction of oxygen on Pt nanoparticle/carbon nanotube nanocomposites in acid and alkaline solutions. <i>Electrochimica Acta</i> , 2010 , 55, 794-803	6.7	72
443	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		72
442	Oxidation mechanism of formic acid on the bismuth adatom-modified Pt(111) surface. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13110-3	16.4	71
441	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	4.1	71
440	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, 14992-8	16.4	70
439	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	4.3	70
438	Electrochemical and spectroscopic studies of ethanol oxidation on Pt stepped surfaces modified by tin adatoms. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 12163-72	3.6	70
437	Effect of purification of carbon nanotubes on their electrocatalytic properties for oxygen reduction in acid solution. <i>Carbon</i> , 2011 , 49, 4031-4039	10.4	70
436	Temperature dependence of the COads oxidation process on Pt(1 1 1), Pt(1 0 0), and Pt(1 1 0) electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 567, 139-149	4.1	70
435	Anion adsorption on PdPt(111) electrodes in sulphuric acid solution. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 497, 125-138	4.1	70
434	Evaluating the ozone cleaning treatment in shape-controlled Pt nanoparticles: Evidences of atomic surface disordering. <i>Electrochemistry Communications</i> , 2011 , 13, 502-505	5.1	69
433	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		69
432	Ethanol oxidation on Pt single-crystal electrodes: surface-structure effects in alkaline medium. <i>ChemPhysChem</i> , 2014 , 15, 2019-28	3.2	68
431	Oxygen reduction reaction on stepped platinum surfaces in alkaline media. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 15416-25	3.6	68

430	Electrocatalysis of formic acid and CO oxidation on antimony-modified Pt(111) electrodes. <i>Electrochimica Acta</i> , 1998 , 44, 1403-1414	6.7	68
429	Adsorption of formate and its role as intermediate in formic acid oxidation on platinum electrodes. <i>ChemPhysChem</i> , 2011 , 12, 1641-4	3.2	67
428	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	1.8	67
427	Evidence of water reorientation on model electrocatalytic surfaces from nanosecond-laser-pulsed experiments. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3824-33	16.4	65
426	Thermodynamic approach to the double layer capacity of a Pt(111) electrode in perchloric acid solutions. <i>Electrochimica Acta</i> , 2006 , 51, 3787-3793	6.7	65
425	Formic acid self-poisoning on bismuth-modified stepped electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 500, 498-509	4.1	65
424	Electrochemical reduction of nitrate on Pt(S)[n(1 1 1) [(1 1 1)]] electrodes in perchloric acid solution. <i>Electrochimica Acta</i> , 2007 , 52, 6023-6033	6.7	64
423	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		63
422	Competitive adsorption of hydrogen and bromide on Pt(1 0 0): Mean-field approximation vs. Monte Carlo simulations. <i>Journal of Electroanalytical Chemistry</i> , 2006 , 588, 1-14	4.1	62
421	Anion effects and the mechanism of Cu UPD on Pt(111): X-ray and electrochemical studies. <i>Surface Science</i> , 1995 , 335, 101-109	1.8	62
420	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		62
419	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 & Interfaces</i> , 2019 , 11, 613-623	9.5	62
418	Understanding the Effect of the Adatoms in the Formic Acid Oxidation Mechanism on Pt(111) Electrodes. <i>ACS Catalysis</i> , 2015 , 5, 645-654	13.1	61
417	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	6.7	61
416	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	3.4	61
415	In situ surface characterization and oxygen reduction reaction on shape-controlled gold nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 2256-73	1.3	60
414	CO monolayer oxidation on stepped Pt(S) [(n 1)(1 0 0) [(1 1 0)]] surfaces. <i>Electrochimica Acta</i> , 2009 , 54, 4459-4466	6.7	60
413	Formic acid electrooxidation on Bi-modified polyoriented and preferential (111) Pt nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 416-24	3.6	60

4 ¹²	Determination of (111) ordered domains on platinum electrodes by irreversible adsorption of bismuth. <i>Analytical Chemistry</i> , 2005 , 77, 5317-23	7.8	60
4 ¹¹	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	3.9	60
4 ¹⁰	Further Insights into the Formic Acid Oxidation Mechanism on Platinum: pH and Anion Adsorption Effects. <i>Electrochimica Acta</i> , 2015 , 180, 479-485	6.7	59
4 ⁰⁹	Kinetic study of nitrate reduction on Pt(110) electrode in perchloric acid solution. <i>Electrochimica Acta</i> , 2008 , 53, 3626-3634	6.7	59
4 ⁰⁸	Some reflections on the understanding of the oxygen reduction reaction at Pt(111). <i>Beilstein Journal of Nanotechnology</i> , 2013 , 4, 956-67	3	58
4 ⁰⁷	Electroreduction of oxygen on Vulcan carbon supported Pd nanoparticles and PdM nanoalloys in acid and alkaline solutions. <i>Electrochimica Acta</i> , 2011 , 56, 6702-6708	6.7	58
4 ⁰⁶	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	4	58
4 ⁰⁵	New insights into the oxygen reduction reaction mechanism on Pt(111): a detailed electrochemical study. <i>ChemSusChem</i> , 2013 , 6, 1091-100	8.3	57
4 ⁰⁴	ATR-SEIRAs characterization of surface redox processes in <i>G. sulfurreducens</i> . <i>Bioelectrochemistry</i> , 2010 , 78, 25-9	5.6	57
4 ⁰³	Formic acid oxidation on Pt(111) electrodes modified by irreversibly adsorbed selenium. <i>Journal of Electroanalytical Chemistry</i> , 1994 , 373, 217-225	4.1	56
4 ⁰²	Electrochemical surface reordering of Pt(111): A quantification of the place-exchange process. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 662, 17-24	4.1	55
4 ⁰¹	On the global and local values of the potential of zero total charge at well-defined platinum surfaces: stepped and adatom modified surfaces. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 568, 329-342	4.1	55
4 ⁰⁰	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	4.1	55
399	An Aza-Fused Conjugated Microporous Framework Catalyzes the Production of Hydrogen Peroxide. <i>ACS Catalysis</i> , 2017 , 7, 1015-1024	13.1	54
398	Analysis of temperature effects on hydrogen and OH adsorption on Pt(111), Pt(100) and Pt(110) by means of Gibbs thermodynamics. <i>Journal of Electroanalytical Chemistry</i> , 2010 , 649, 69-82	4.1	53
397	On the electrochemical behavior of the Pt(100) vicinal surfaces in bromide solutions. <i>Surface Science</i> , 2004 , 560, 269-284	1.8	53
396	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		53
395	In-situ infrared study of the adsorption and oxidation of oxalic acid at single-crystal and thin-film gold electrodes: a combined external reflection infrared and ATR-SEIRAS approach. <i>Langmuir</i> , 2006 , 22, 7192-202	4	52

394	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	4.1	52
393	On the behavior of the Pt(100) and vicinal surfaces in alkaline media. <i>Electrochimica Acta</i> , 2011 , 58, 184-192	6.7	51
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