

# Manuel P Soriaga

## List of Publications by Year in descending order

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188  
papers

8,279  
citations

76196

40  
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49773

87  
g-index

192  
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192  
docs citations

192  
times ranked

7589  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of Structural and Electronic Properties of Pt and Pt Alloys on Electrocatalysis of Oxygen Reduction: An In Situ XANES and EXAFS Investigation. Journal of the Electrochemical Society, 1995, 142, 1409-1422.	1.3	1,095
2	The Hydrophilic Phosphotriazaadamantane Ligand in the Development of H <sub>2</sub> Production Electrocatalysts: A Iron Hydrogenase Model Complexes. Journal of the American Chemical Society, 2004, 126, 12004-12014.	6.6	417
3	Effect of Preparation Conditions of Pt Alloys on Their Electronic, Structural, and Electrocatalytic Activities for Oxygen Reduction - XRD, XAS, and Electrochemical Studies. The Journal of Physical Chemistry, 1995, 99, 4577-4589.	2.9	415
4	Electrocatalysis of hydrogen production by active site analogues of the iron hydrogenase enzyme: structure/function relationships. Dalton Transactions, 2003, , 4158-4163.	1.6	331
5	Engineering Cu surfaces for the electrocatalytic conversion of CO <sub>2</sub> : Controlling selectivity toward oxygenates and hydrocarbons. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5918-5923.	3.3	311
6	The electrode/electrolyte interface - a status report. The Journal of Physical Chemistry, 1993, 97, 7147-7173.	2.9	274
7	Determination of the orientation of adsorbed molecules at solid-liquid interfaces by thin-layer electrochemistry: aromatic compounds at platinum electrodes. Journal of the American Chemical Society, 1982, 104, 2735-2742.	6.6	261
8	The Evolution of the Polycrystalline Copper Surface, First to Cu(111) and Then to Cu(100), at a Fixed CO <sub>2</sub> RR Potential: A Study by <i>Operando</i> EC-STM. Langmuir, 2014, 30, 15053-15056.	1.6	245
9	Nickel-Gallium-Catalyzed Electrochemical Reduction of CO <sub>2</sub> to Highly Reduced Products at Low Overpotentials. ACS Catalysis, 2016, 6, 2100-2104.	5.5	238
10	CoP as an Acid-Stable Active Electrocatalyst for the Hydrogen-Evolution Reaction: Electrochemical Synthesis, Interfacial Characterization and Performance Evaluation. Journal of Physical Chemistry C, 2014, 118, 29294-29300.	1.5	216
11	The Reaction Mechanism with Free Energy Barriers for Electrochemical Dihydrogen Evolution on MoS <sub>2</sub> . Journal of the American Chemical Society, 2015, 137, 6692-6698.	6.6	173
12	Determination of the orientation of aromatic molecules adsorbed on platinum electrodes. The effect of solute concentration. Journal of the American Chemical Society, 1982, 104, 3937-3945.	6.6	149
13	Electrocatalysis of the hydrogen-evolution reaction by electrodeposited amorphous cobalt selenide films. Journal of Materials Chemistry A, 2014, 2, 13835-13839.	5.2	133
14	<i>Operando</i> Spectroscopic Analysis of CoP Films Electrocatalyzing the Hydrogen-Evolution Reaction. Journal of the American Chemical Society, 2017, 139, 12927-12930.	6.6	127
15	Grignard reagent formation. Coordination Chemistry Reviews, 2004, 248, 623-652.	9.5	124
16	Ultra-high vacuum techniques in the study of single-crystal electrode surfaces. Progress in Surface Science, 1992, 39, 325-443.	3.8	122
17	<i>Operando</i> Synthesis of Macroporous Molybdenum Diselenide Films for Electrocatalysis of the Hydrogen-Evolution Reaction. ACS Catalysis, 2014, 4, 2866-2873.	5.5	122
18	Determination of the surface area of gold electrodes by iodine chemisorption. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1987, 233, 283-289.	0.3	118

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19	Oriental transitions of aromatic molecules adsorbed on platinum electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1982, 142, 317-336.	0.3	103
20	Superlattices formed by electrodeposition of silver on iodine-pretreated Pt(111); studies by LEED, Auger spectroscopy and electrochemistry. Surface Science, 1983, 130, 326-347.	0.8	98
21	Adsorbed-Iodine-Catalyzed Dissolution of Pd Single-Crystal Electrodes: A Study by Electrochemical Scanning Tunneling Microscopy. The Journal of Physical Chemistry, 1996, 100, 20027-20034.	2.9	96
22	Determination of the orientation of aromatic molecules adsorbed on platinum electrodes: the influence of iodide, a surface-active anion. Journal of the American Chemical Society, 1982, 104, 2742-2747.	6.6	95
23	Electrodeposition on a well-defined surface: Silver on Pt(111) ( $\theta = 19.1^\circ$ ). Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1983, 150, 165-180.	0.3	94
24	Surface reconstruction of pure-Cu single-crystal electrodes under CO-reduction potentials in alkaline solutions: A study by serial ECSTM-DEMS. Journal of Electroanalytical Chemistry, 2016, 780, 290-295.	1.9	92
25	Surface-oxide growth at platinum electrodes in aqueous H <sub>2</sub> SO <sub>4</sub> . Electrochimica Acta, 2004, 49, 1451-1459.	2.6	88
26	Anodic underpotential deposition and cathodic stripping of iodine at polycrystalline and single-crystal gold: studies by LEED, AES, XPS, and electrochemistry. The Journal of Physical Chemistry, 1991, 95, 5245-5249.	2.9	80
27	Surface coordination chemistry of monometallic and bimetallic electrocatalysts. Chemical Reviews, 1990, 90, 771-793.	23.0	77
28	Structure and composition of a platinum(111) surface as a function of pH and electrode potential in aqueous bromide solutions. Langmuir, 1986, 2, 828-835.	1.6	73
29	Electrochemical oxidation of aromatic compounds adsorbed on platinum electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1983, 144, 207-215.	0.3	66
30	Surface coordination chemistry of platinum studied by thin-layer electrodes. Adsorption, orientation, and mode of binding of aromatic and quinonoid compounds. Inorganic Chemistry, 1985, 24, 65-73.	1.9	65
31	Electrode-surface coordination chemistry: ligand substitution and competitive coordination of halides at well-defined Pd(100) and Pd(111) single crystals. Inorganica Chimica Acta, 1997, 255, 249-254.	1.2	65
32	Surface Reconstruction of Polycrystalline Cu Electrodes in Aqueous KHCO <sub>3</sub> Electrolyte at Potentials in the Early Stages of CO <sub>2</sub> Reduction. Electrocatalysis, 2018, 9, 526-530.	1.5	60
33	Regulating the Product Distribution of CO Reduction by the Atomic-Level Structural Modification of the Cu Electrode Surface. Electrocatalysis, 2016, 7, 391-399.	1.5	56
34	Electrochemical processes at well-defined surfaces. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1984, 168, 43-66.	0.3	55
35	Synthesis and hydrogen-evolution activity of tungsten selenide thin films deposited on tungsten foils. Journal of Electroanalytical Chemistry, 2014, 716, 45-48.	1.9	51
36	A survey of factors influencing the stability of organic functional groups attached to platinum electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1981, 125, 73-88.	0.3	50

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37	Atom-Resolved EC-STM Studies of Anion Adsorption at Well-Defined Surfaces: Pd(111) in Sulfuric Acid Solution. <i>Journal of Colloid and Interface Science</i> , 2000, 227, 505-509.	5.0	49
38	Reaction mechanism of the benzoquinone/hydroquinone couple at platinum electrodes in aqueous solutions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1985, 185, 331-338.	0.3	46
39	Spectroscopic and electrochemical studies of iodine coordinated to noble-metal electrode surfaces. <i>Langmuir</i> , 1989, 5, 707-713.	1.6	46
40	Effect of surface roughness on the adsorption, orientation and anodic oxidation of hydroquinone at platinum electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984, 177, 89-96.	0.3	41
41	pH and potential dependence of the electrical double layer at well-defined electrode surfaces: Cs <sup>+</sup> and Ca <sup>2+</sup> ions at Pt(111) (2.3 X 2.3)R30°-CN, Pt(111) (1.3 X 1.3)R14°-CN, and Pt(111) (2 X 2)-SCN. <i>Langmuir</i> , 1985, 1, 587-592.	0.3	40
42	Cation competition in the electrical double-layer at a well-defined electrode surface Li <sup>+</sup> , Na <sup>+</sup> , K <sup>+</sup> , Cs <sup>+</sup> , H <sup>+</sup> , Mg <sup>2+</sup> , Ca <sup>2+</sup> , Ba <sup>2+</sup> , La <sup>3+</sup> , tetramethylammonium, choline and acetylcholine cations at Pt(111) surfaces containing an ordered layer of cyanide. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1985, 188, 95-104.	0.3	39
43	Reversible redox of 2,5-dihydroxythiophenol chemisorbed on gold and platinum electrodes: evidence for substrate-mediated adsorbate-adsorbate interactions. <i>Langmuir</i> , 1987, 3, 595-597.	1.6	37
44	Substrate-mediated adsorbate-adsorbate interactions: effect of submonolayer coverage and coadsorbed iodine on the reversible redox of 2,5-dihydroxythiophenol chemisorbed at gold and platinum. <i>Langmuir</i> , 1988, 4, 1147-1151.	1.6	37
45	Internalization of Carbon Black and Maghemite Iron Oxide Nanoparticle Mixtures Leads to Oxidant Production. <i>Chemical Research in Toxicology</i> , 2010, 23, 1874-1882.	1.7	36
46	Electrochemistry of the I-on-Pd single-crystal interface: studies by UHV-EC and in situ STM. <i>Surface Science</i> , 1995, 335, 273-280.	0.8	35
47	Electrode reactions of oriented chemisorbed molecules. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1983, 159, 101-116.	0.3	34
48	Characterization of platinum electrodes by infrared spectroscopy. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1986, 198, 65-80.	0.3	34
49	A scanning probe investigation of the role of surface motifs in the behavior of p-WSe <sub>2</sub> photocathodes. <i>Energy and Environmental Science</i> , 2016, 9, 164-175.	15.6	33
50	The effect of orientation of adsorbed intermediates on the electrochemical oxidation of aromatic compounds. <i>Journal of Molecular Catalysis</i> , 1983, 21, 211-221.	1.2	32
51	Surface coordination chemistry of well-defined platinum electrodes: surface polyprotic acidity of platinum(111)(2.3 X 2.3)R30.degree.-hydrogen isocyanide. <i>Inorganic Chemistry</i> , 1985, 24, 1419-1421.	1.9	32
52	Surface coordination chemistry of platinum studied by thin-layer electrodes. Surface chemical reactivity of aromatic and quinonoid compounds adsorbed in specific orientational states. <i>Inorganic Chemistry</i> , 1985, 24, 73-79.	1.9	32
53	Electrochemical Atomic Layer Deposition (E-ALD) of Palladium Nanofilms by Surface Limited Redox Replacement (SLRR), with EDTA Complexation. <i>Electrocatalysis</i> , 2012, 3, 96-107.	1.5	32
54	Structural, Compositional and Electrochemical Characterization of Pt-Co Oxygen Reduction Catalysts. <i>ChemPhysChem</i> , 2010, 11, 1468-1475.	1.0	31

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55	Orientation of hydroquinone and benzoquinone adsorbed on platinum electrodes: studies by reflection-absorption infrared spectroscopy. <i>The Journal of Physical Chemistry</i> , 1984, 88, 4583-4586.	2.9	30
56	Electrochemical activation and electrocatalytic enhancement of a hydride-forming metal alloy modified with palladium, platinum and nickel. <i>Electrochimica Acta</i> , 2006, 51, 3658-3667.	2.6	30
57	Orientation of aromatic compounds adsorbed on platinum electrodes. The effect of temperature. <i>The Journal of Physical Chemistry</i> , 1983, 87, 3048-3054.	2.9	29
58	Electrochemical regeneration of clean and well-ordered Pd(111) surfaces. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991, 297, 523-528.	0.3	27
59	The self-discharge mechanism of AB <sub>5</sub> AB <sub>5</sub> -type hydride electrodes in Ni/MH batteries. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 603-611.	3.8	27
60	A DEMS Study of the Reduction of CO <sub>2</sub> , CO, and HCHO Pre-Adsorbed on Cu Electrodes: Empirical Inferences on the CO <sub>2</sub> RR Mechanism. <i>Electrocatalysis</i> , 2015, 6, 127-131.	1.5	27
61	Synthesis, Characterization, and Reactivity of Ethynyl- and Propynyl-Terminated Si(111) Surfaces. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19847-19862.	1.5	26
62	Seriatim ECSTM-ECPMIRS of the adsorption of carbon monoxide on Cu(100) in alkaline solution at CO <sub>2</sub> -reduction potentials. <i>Electrochemistry Communications</i> , 2018, 91, 1-4.	2.3	26
63	Cathodic regeneration of a clean and ordered Cu(1 0 0)-(1 $\bar{1}$ —1) surface from an air-oxidized and disordered electrode: An operando STM study. <i>Journal of Electroanalytical Chemistry</i> , 2014, 734, 7-9.	1.9	25
64	In situ chemisorption-induced reordering of oxidatively disordered palladium (111) electrode surfaces. <i>Journal of the American Chemical Society</i> , 1990, 112, 7392-7393.	6.6	24
65	The Influence of Chemisorbed Organic Monolayers on Electrode Surface Oxidation. <i>Corrosion</i> , 1991, 47, 322-328.	0.5	24
66	Adsorbate-catalyzed layer-by-layer metal dissolution in halide-free solutions: palladium(111)( $\sqrt{3}\times\sqrt{3}$ )R30.degree.-iodine. <i>The Journal of Physical Chemistry</i> , 1993, 97, 10518-10520.	2.9	24
67	UHV $\mu$ EC and EC $\mu$ STM studies of molecular chemisorption at well-defined surfaces: hydroquinone and benzoquinone on Pd(hkl). <i>Electrochemistry Communications</i> , 1999, 1, 135-138.	2.3	24
68	Adsorption of aromatic compound at platinum electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984, 167, 79-95.	0.3	23
69	Adsorption and orientation of hydroquinone and hydroquinone sulfonate at platinum electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984, 163, 407-413.	0.3	23
70	In Situ Quartz Crystal Microgravimetric Studies of Molecular Adsorbates Containing Thiol and Hydroquinone Moieties Bound to Au(111) Surfaces in Aqueous Electrolytes. <i>Langmuir</i> , 1995, 11, 4626-4628.	1.6	22
71	Electrochemical surface science twenty years later: Expeditions into the electrocatalysis of reactions at the core of artificial photosynthesis. <i>Surface Science</i> , 2015, 631, 285-294.	0.8	22
72	Adsorption and orientation of aromatic compounds at smooth polycrystalline platinum electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984, 171, 359-363.	0.3	21

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73	Electrochemistry of chemisorbed molecules. 4. The effect of chirality on the orientation and electrochemical oxidation of l- and dl-DOPA. The Journal of Physical Chemistry, 1983, 87, 232-235.	2.9	20
74	Influence of temperature on the electrocatalytic oxidation of oriented-absorbed aromatic compounds on platinum. The Journal of Physical Chemistry, 1984, 88, 1758-1761.	2.9	20
75	Surface coordination chemistry of noble-metal electrocatalysts: Oxidative addition and reductive elimination of iodide at iridium, platinum and gold in aqueous solutions. Inorganica Chimica Acta, 1988, 148, 123-131.	1.2	20
76	Reductive Desorption of Iodine Chemisorbed on Smooth Polycrystalline Gold Electrodes. Journal of the Electrochemical Society, 1988, 135, 616-618.	1.3	20
77	Oxidation-state changes of molecules irreversibly adsorbed on electrode surfaces as monitored by in situ Fourier transform infrared reflection absorption spectroscopy. Langmuir, 1990, 6, 1234-1237.	1.6	20
78	Electrochemical characterization of a hydride-forming metal alloy surface-modified with palladium. Journal of Power Sources, 2003, 124, 309-313.	4.0	20
79	The adsorption, orientation and electrochemical oxidation of hydroquinone at smooth platinum electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1984, 167, 97-106.	0.3	19
80	Adsorbate-catalyzed corrosion. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 303, 255-259.	0.3	18
81	Electrochemical regeneration of clean and ordered Pd(100) surfaces by iodine adsorption-desorption: evidence from low-energy electron diffraction. Journal of Electroanalytical Chemistry, 1994, 364, 247-249.	1.9	18
82	Synthesis and Characterization of Atomically Flat Methyl-Terminated Ge(111) Surfaces. Journal of the American Chemical Society, 2015, 137, 9006-9014.	6.6	18
83	Reversible redox, hydrodesulfurization and anodic oxidation of chemisorbed thiophenols. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 241, 199-210.	0.3	17
84	Determination of reaction resistances for metal-hydride electrodes during anodic polarization. Journal of Power Sources, 2000, 85, 212-223.	4.0	17
85	Electrochemical Formation of Germanene: pH 4.5. Journal of the Electrochemical Society, 2017, 164, D469-D477.	1.3	17
86	Hydrogenative/cathodic stripping of iodine chemisorbed on smooth polycrystalline platinum electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1987, 219, 327-333.	0.3	16
87	The interaction of I <sub>2</sub> (g), HI(g) and KI(aq) with Pd (111) electrode surfaces. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1989, 264, 291-296.	0.3	16
88	Absorbate-catalyzed dissolution in inert electrolyte: layer-by-layer corrosion of palladium(100)-c(2) Tj ETQq0 0 0 rgBT <sub>6</sub> /Overlock 10 Tf 50	1.6	16
89	Electrocatalytic hydrogenation and oxidation of aromatic compounds studied by DEMS: Benzene and p-dihydroxybenzene at ultrathin Pd films electrodeposited on Au(hkl) surfaces. Journal of Colloid and Interface Science, 2007, 314, 152-159.	5.0	16
90	Molecular chemisorption at well-defined Pd(111) electrode surfaces: hydroquinone sulfonate studied by UHV-EC-STM. Journal of Electroanalytical Chemistry, 2001, 500, 374-378.	1.9	15

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91	Adsorbate-induced disorder-to-order surface reconstruction: iodine on Pd(111) revisited by EC-STM. <i>Journal of Electroanalytical Chemistry</i> , 2001, 509, 170-174.	1.9	15
92	Potential-Dependent Adsorption of CO and Its Low-Overpotential Reduction to CH <sub>3</sub> CH <sub>2</sub> OH on Cu(511) Surface Reconstructed from Cu(pc): Operando Studies by Seriatim STM-EQCN-DEMS. <i>Journal of the Electrochemical Society</i> , 2018, 165, J3350-J3354.	1.3	15
93	Formation of vertically oriented aromatic molecules chemisorbed on platinum electrodes: the effect of surface pretreatment with flat-oriented intermediates. <i>The Journal of Physical Chemistry</i> , 1984, 88, 1089-1094.	2.9	14
94	Influence of oriented-chemisorbed monolayers on the electrode kinetics of unadsorbed nonionic redox couples. <i>The Journal of Physical Chemistry</i> , 1985, 89, 3227-3232.	2.9	14
95	In situ regeneration of clean and ordered Pd(111) electrode surfaces by oxidative chemisorption and reductive desorption of iodine. <i>Surface Science</i> , 1991, 249, L322-L326.	0.8	14
96	Effect of Zn Additives to the Electrolyte on the Corrosion and Cycle Life of Some AB <sub>5</sub> x Metal Hydride Electrodes. <i>Journal of the Electrochemical Society</i> , 1997, 144, L258-L261.	1.3	14
97	The Interfacial Chemistry of the Grignard Reaction: The Composition of the Film Formed on Air-Exposed Magnesium. <i>Journal of Colloid and Interface Science</i> , 1998, 206, 247-251.	5.0	14
98	Corrosion behaviour of AB <sub>5</sub> -type hydride electrodes in alkaline electrolyte solution. <i>Journal of Applied Electrochemistry</i> , 2003, 33, 325-331.	1.5	14
99	Structure and composition of Cu(hkl) surfaces exposed to O <sub>2</sub> and emersed from alkaline solutions: Prelude to UHV-EC studies of CO <sub>2</sub> reduction at well-defined copper catalysts. <i>Journal of Electroanalytical Chemistry</i> , 2014, 716, 101-105.	1.9	14
100	Analysis of products from reactions of chemisorbed monolayers at smooth platinum electrodes: electrochemical hydrodesulfurization of thiophenol derivatives. <i>Analytical Chemistry</i> , 1986, 58, 2964-2968.	3.2	13
101	The influence of orientation on the electrocatalytic hydrogenation of hydroquinone chemisorbed at smooth polycrystalline platinum electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 239, 375-386.	0.3	13
102	Structure, composition, thermal stability and electrochemical reactivity of HS <sup>-</sup> (aq)-derived species chemisorbed at Pd(III) electrode surfaces. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991, 300, 487-498.	0.3	13
103	A DEMS study of the electrocatalytic hydrogenation and oxidation of p-dihydroxybenzene at polycrystalline and monocrystalline platinum electrodes. <i>Journal of Applied Electrochemistry</i> , 2006, 36, 1253-1260.	1.5	13
104	Overlayer Au-on-W Near-Surface Alloy for the Selective Electrochemical Reduction of CO <sub>2</sub> to Methanol: Empirical (DEMS) Corroboration of a Computational (DFT) Prediction. <i>Electrocatalysis</i> , 2015, 6, 493-497.	1.5	13
105	Anodic dissolution and reordering of Pd(110) induced by chemisorbed iodine. <i>Surface Science</i> , 1997, 385, 336-345.	0.8	12
106	Structure of ordered electrified interfaces: EC-STM of hydroquinone sulfonate at well-defined Pd(111) electrodes. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 3303-3306.	1.3	12
107	Electron-Transfer-Induced Molecular Reorientations: The Benzoquinone/Hydroquinone Reaction at Pd(111)-(111)R30°-I Studied by EC-STM. <i>Journal of Colloid and Interface Science</i> , 2001, 236, 197-199.	5.0	12
108	Molecular Adsorption at Well-Defined Electrode Surfaces: Hydroquinone on Pd(111) Studied by EC-STM. <i>Langmuir</i> , 2006, 22, 10762-10765.	1.6	11

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109	Kinetics of hydroquinone chemisorption at polycrystalline platinum electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1987, 217, 121-128.	0.3	10
110	Observations on the surface composition of palladium cathodes after D <sub>2</sub> O electrolysis in LiOD solutions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989, 267, 351-357.	0.3	10
111	Reversible redox chemistry, hydrodesulfurization, and anodic oxidation of thiophenols chemisorbed at smooth polycrystalline iridium electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 295, 123-138.	0.3	10
112	In situ chemisorption-induced reordering of oxidatively disordered palladium (100) electrode surfaces. <i>Journal of the American Chemical Society</i> , 1992, 114, 10950-10952.	6.6	10
113	Improvement in the cycle life of LaB <sub>5</sub> metal hydride electrodes by addition of ZnO to alkaline electrolyte. <i>Electrochimica Acta</i> , 2002, 47, 1069-1078.	2.6	10
114	Molecular adsorption at well-defined electrode surfaces: benzene on Pd(1 1 1) studied by EC-STM and HREELS. <i>Journal of Electroanalytical Chemistry</i> , 2003, 554-555, 167-174.	1.9	10
115	Molecular catalysis that transpires only when the complex is heterogenized: Studies of a hydrogenase complex surface-tethered on polycrystalline and (1 1 1)-faceted gold by EC, PM-FT-IRRAS, HREELS, XPS and STM. <i>Journal of Electroanalytical Chemistry</i> , 2014, 716, 63-70.	1.9	10
116	Ligand (adsorbate) substitutions at metal surfaces: aromatic compounds and halides at smooth polycrystalline platinum electrodes. <i>The Journal of Physical Chemistry</i> , 1984, 88, 2284-2287.	2.9	9
117	Surface coordination chemistry of noble-metal electrodes. Hydrogen/iodine ligand (adsorbate) substitution at smooth polycrystalline platinum. <i>Inorganic Chemistry</i> , 1987, 26, 2760-2763.	1.9	9
118	Selective and quantitative removal of Pd films from Pt substrates by adsorbed-iodine-catalyzed anodic stripping. <i>Electrochimica Acta</i> , 1998, 44, 1031-1036.	2.6	9
119	Tracking the prelude of the electroreduction of carbon monoxide via its interaction with Cu(100): Studies by operando scanning tunneling microscopy and infrared spectroscopy. <i>Catalysis Today</i> , 2020, 358, 210-214.	2.2	9
120	Ultrahigh-Vacuum Surface Analytical Methods in Electrochemical Studies of Single-Crystal Surfaces. <i>Modern Aspects of Electrochemistry</i> , 1996, , 1-60.	0.2	9
121	Effect of nonaqueous solvents on the chemisorption and orientation of aromatic compounds at smooth polycrystalline platinum electrodes: naphthohydroquinone in water-benzene solutions. <i>The Journal of Physical Chemistry</i> , 1985, 89, 3999-4002.	2.9	8
122	Surface chelation of 2,5-dihydroxythiophenol at polycrystalline iridium electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 252, 453-459.	0.3	8
123	Redox-activated adsorption/desorption process: iodine/iodide at polycrystalline iridium in aqueous solvents. <i>The Journal of Physical Chemistry</i> , 1988, 92, 2702-2706.	2.9	8
124	Adsorbate-catalyzed layer-by-layer metal dissolution in inert electrolyte: Pd(100)-c(2 Å <sup>-2</sup> )-I. <i>Surface Science</i> , 1994, 314, L909-L912.	0.8	8
125	Layer-by-Layer Deposition of Pd on Pt(111) Electrode: an Electron Spectroscopy Electrochemistry Study. <i>Electrocatalysis</i> , 2012, 3, 183-191.	1.5	8
126	The orientation and electrochemical oxidation of hydroquinone chemisorbed on platinum electrodes in various weakly surface-active supporting electrolytes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984, 162, 143-152.	0.3	7



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127	The adsorption and orientation of aromatic compounds at smooth polycrystalline platinum electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1985, 184, 171-178.	0.3	7
128	Competitive chemisorption from binary surfactant mixtures at solid-liquid interfaces: hydroquinone and naphthohydroquinone at smooth polycrystalline platinum in aqueous solutions. <i>Langmuir</i> , 1985, 1, 123-127.	1.6	7
129	Kinetics of oriented adsorption: hydroquinone on platinum. <i>The Journal of Physical Chemistry</i> , 1987, 91, 78-82.	2.9	7
130	Site Selection in Electrode Reactions: Benzoquinone/Hydroquinone Redox at Submonolayer Sulfur-Coated Iridium Surfaces. <i>Langmuir</i> , 1994, 10, 3929-3932.	1.6	7
131	Electrochemical digital etching in inert electrolyte: Reordering of ion-bombarded Pd(100) by chemisorbed-iodine-catalyzed dissolution. <i>Electrochimica Acta</i> , 1995, 40, 1203-1205.	2.6	7
132	Electrochemical digital etching in non-corrosive electrolyte: I(ads)-catalyzed dissolution and reordering of ion-bombarded Pd(111). <i>Journal of Electroanalytical Chemistry</i> , 1995, 381, 239-241.	1.9	7
133	Atomic-Resolution Electrochemical Scanning Tunneling Microscopy: Evidence of I <sup>ads</sup> /Pd Place Exchange in the I(Ads)-Catalyzed Dissolution of Pd(111). <i>Journal of Physical Chemistry B</i> , 1998, 102, 6188-6192.	1.2	7
134	(Invited) Investigations into the Formation of Germanene Using Electrochemical Atomic Layer Deposition (E-ALD). <i>ECS Transactions</i> , 2015, 66, 129-140.	0.3	7
135	Reprint of: Surface reconstruction of pure-Cu single-crystal electrodes under CO-reduction potentials in alkaline solutions: A study by serial ECSTM-DEMS. <i>Journal of Electroanalytical Chemistry</i> , 2017, 793, 113-118.	1.9	7
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