Manuel P Soriaga

List of Publications by Year in Descending Order

185 papers	7,114 citations	38 h-index	80 g-index
192 ext. papers	7,582 ext. citations	6 avg, IF	5.58 L-index

#	Paper	IF	Citations
185	Tracking the prelude of the electroreduction of carbon monoxide via its interaction with Cu(100): Studies by operando scanning tunneling microscopy and infrared spectroscopy. *Catalysis Today*, **2020**, 358, 210-214	5.3	4
184	Seriatim ECSTM-ECPMIRS of the adsorption of carbon monoxide on Cu(100) in alkaline solution at CO2-reduction potentials. *Electrochemistry Communications*, **2018**, 91, 1-4	5.1	19
183	Surface Reconstruction of Polycrystalline Cu Electrodes in Aqueous KHCO3 Electrolyte at Potentials in the Early Stages of CO2 Reduction. *Electrocatalysis*, **2018**, 9, 526-530	2.7	32
182	Potential-Dependent Adsorption of CO and Its Low-Overpotential Reduction to CH3CH2OH on Cu(511) Surface Reconstructed from Cu(pc): Operando Studies by Seriatim STM-EQCN-DEMS. *Journal of the Electrochemical Society*, **2018**, 165, J3350-J3354	3.9	10
181	Reprint of: Surface reconstruction of pure-Cu single-crystal electrodes under CO-reduction potentials in alkaline solutions: A study by seriatim ECSTM-DEMS. *Journal of Electroanalytical Chemistry*, **2017**, 793, 113-118	4.1	5
180	Engineering Cu surfaces for the electrocatalytic conversion of CO: Controlling selectivity toward oxygenates and hydrocarbons. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 5918-5923	11.5	215
179	Operando Spectroscopic Analysis of CoP Films Electrocatalyzing the Hydrogen-Evolution Reaction. *Journal of the American Chemical Society*, **2017**, 139, 12927-12930	16.4	92
178	Electrochemical Formation of Germanene: pH 4.5. *Journal of the Electrochemical Society*, **2017**, 164, D469-D477	3.9	16
177	A scanning probe investigation of the role of surface motifs in the behavior of p-WSe2 photocathodes. *Energy and Environmental Science*, **2016**, 9, 164-175	35.4	27
176	Surface reconstruction of pure-Cu single-crystal electrodes under CO-reduction potentials in alkaline solutions: A study by seriatim ECSTM-DEMS. *Journal of Electroanalytical Chemistry*, **2016**, 780, 290-295	4.1	69
175	Regulating the Product Distribution of CO Reduction by the Atomic-Level Structural Modification of the Cu Electrode Surface. *Electrocatalysis*, **2016**, 7, 391-399	2.7	46
174	Nickel–Gallium-Catalyzed Electrochemical Reduction of CO2to Highly Reduced Products at Low Overpotentials. *ACS Catalysis*, **2016**, 6, 2100-2104	13.1	186
173	Influence of Redox-Inactive Cations on the Structure and Electrochemical Reactivity of Synthetic Birnessite, a Heterogeneous Analog for the Oxygen-Evolving Complex. *Journal of Physical Chemistry C*, **2016**, 120, 15618-15631	3.8	3
172	A DEMS Study of the Reduction of CO2, CO, and HCHO Pre-Adsorbed on Cu Electrodes: Empirical Inferences on the CO2RR Mechanism. *Electrocatalysis*, **2015**, 6, 127-131	2.7	25
171	Synthesis and Characterization of Atomically Flat Methyl-Terminated Ge(111) Surfaces. *Journal of the American Chemical Society*, **2015**, 137, 9006-14	16.4	12
170	Synthesis, Characterization, and Reactivity of Ethynyl- and Propynyl-Terminated Si(111) Surfaces. *Journal of Physical Chemistry C*, **2015**, 119, 19847-19862	3.8	21
169	The Reaction Mechanism with Free Energy Barriers for Electrochemical Dihydrogen Evolution on MoS2. *Journal of the American Chemical Society*, **2015**, 137, 6692-8	16.4	146

168	Overlayer Au-on-W Near-Surface Alloy for the Selective Electrochemical Reduction of CO2 to Methanol: Empirical (DEMS) Corroboration of a Computational (DFT) Prediction. *Electrocatalysis*, **2015**, 6, 493-497	2.7	13
167	Electrochemical surface science twenty years later: Expeditions into the electrocatalysis of reactions at the core of artificial photosynthesis. *Surface Science*, **2015**, 631, 285-294	1.8	17
166	Electrode Surfaces, Palladium: Molecular Adsorption **2015**, 2202-2218		
165	(Invited) Investigations into the Formation of Germanene Using Electrochemical Atomic Layer Deposition (E-ALD). *ECS Transactions*, **2015**, 66, 129-140	1	5
164	Addendum to Immobilization-Enabled Proton-Reduction Catalysis by a Di-iron Hydrogenase Mimic. *Electrocatalysis*, **2014**, 5, 113-113	2.7	1
163	Synthesis and hydrogen-evolution activity of tungsten selenide thin films deposited on tungsten foils. *Journal of Electroanalytical Chemistry*, **2014**, 716, 45-48	4.1	46
162	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. *Journal of Electroanalytical Chemistry*, **2014**, 716, 63-70	4.1	7
161	C-H activation and metalation at electrode surfaces: 2,3-dimethyl-1,4-dihydroxybenzene on Pd(pc) and Pd(111) studied by TLE, HREELS and DFT. *Dalton Transactions*, **2014**, 43, 14798-805	4.3	
160	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	3.8	179
159	Operando Synthesis of Macroporous Molybdenum Diselenide Films for Electrocatalysis of the Hydrogen-Evolution Reaction. *ACS Catalysis*, **2014**, 4, 2866-2873	13.1	108
158	Electrocatalysis of the hydrogen-evolution reaction by electrodeposited amorphous cobalt selenide films. *Journal of Materials Chemistry A*, **2014**, 2, 13835-13839	13	121
157	Heterogenization of a Water-Insoluble Molecular Complex for Catalysis of the Proton-Reduction Reaction in Highly Acidic Aqueous Solutions. *Electrocatalysis*, **2014**, 5, 226-228	2.7	2
156	Structure and composition of Cu(hkl) surfaces exposed to O2 and emersed from alkaline solutions: Prelude to UHV-EC studies of CO2 reduction at well-defined copper catalysts. *Journal of Electroanalytical Chemistry*, **2014**, 716, 101-105	4.1	13
155	The evolution of the polycrystalline copper surface, first to Cu(111) and then to Cu(100), at a fixed CO2RR potential: a study by operando EC-STM. *Langmuir*, **2014**, 30, 15053-6	4	174
154	Cathodic regeneration of a clean and ordered Cu(1 0 0)-(1×1) surface from an air-oxidized and disordered electrode: An operando STM study. *Journal of Electroanalytical Chemistry*, **2014**, 734, 7-9	4.1	22
153	Immobilization-Enabled Proton Reduction Catalysis by a Di-iron Hydrogenase Mimic. *Electrocatalysis*, **2014**, 5, 5-7	2.7	4
152	Chemisorption-Isotherm Measurements at Electrode Surfaces by Quantitative High-Resolution Electron Energy Loss Spectroscopy. *Electrocatalysis*, **2013**, 4, 101-103	2.7	1
151	High-resolution electron energy loss spectroscopy of anions chemisorbed on electrode surfaces: The effect of counter cations. *Electrochemistry Communications*, **2013**, 27, 176-179	5.1	1

150	Simulation of scanning tunneling microscope image of benzene chemisorbed on a Pd(111) electrode surface by density functional theory. *Reports in Electrochemistry*, **2013**, 1		
149	Layer-by-Layer Deposition of Pd on Pt(111) Electrode: an Electron Spectroscopy/Electrochemistry Study. *Electrocatalysis*, **2012**, 3, 183-191	2.7	8
148	The Structure of Benzoquinone Chemisorbed on Pd(111): Simulation of EC-STM Images and HREELS Spectra by Density Functional Theory. *Electrocatalysis*, **2012**, 3, 353-359	2.7	4
147	Electrochemical Atomic Layer Deposition (E-ALD) of Palladium Nanofilms by Surface Limited Redox Replacement (SLRR), with EDTA Complexation. *Electrocatalysis*, **2012**, 3, 96-107	2.7	31
146	The structure, composition and reactivity of clean and ambient-exposed polycrystalline and monocrystalline Mg surfaces. *Journal of Electroanalytical Chemistry*, **2011**, 662, 36-42	4.1	2
145	Internalization of carbon black and maghemite iron oxide nanoparticle mixtures leads to oxidant production. *Chemical Research in Toxicology*, **2010**, 23, 1874-82	4	33
144	UHV-EC Characterization of Ultrathin Films Electrodeposited on Well-Defined Noble Metals. I: Pd on Pt(111). *Electrocatalysis*, **2010**, 1, 28-33	2.7	3
143	UHV-EC Characterization of Ultrathin Films Electrodeposited on Well-Defined Noble Metals. III: Bi on Pd(111). *Electrocatalysis*, **2010**, 1, 42-50	2.7	1
142	UHV-EC Characterization of Ultrathin Films Electrodeposited on Well-Defined Noble Metals. II: Co on Pd(111). *Electrocatalysis*, **2010**, 1, 34-41	2.7	
141	Density Functional Study of Benzoquinone Sulfonate Adsorbed on a Pd(111) Electrode Surface. *Electrocatalysis*, **2010**, 1, 159-162	2.7	3
140	Structural, compositional and electrochemical characterization of Pt-Co oxygen-reduction catalysts. *ChemPhysChem*, **2010**, 11, 1468-75	3.2	28
139	Characterization of Alloy Electrocatalysts by Combined Low-Energy Ion Scattering Spectroscopy and Electrochemistry. *Modern Aspects of Electrochemistry*, **2010**, 1-23		1
138	Electrocatalytic Reactions of Chemisorbed Aromatic Compounds: Studies by ES, DEMS, STM and EC. *Modern Aspects of Electrochemistry*, **2010**, 275-313		1
137	Interfacial Structure and Chemistry of Potentiodynamically Electrodeposited Ultrathin Pd Films on Pt(111). *ECS Transactions*, **2009**, 19, 25-42	1	1
136	Surface coordination chemistry of 2,5-dihydroxythiophenol at well-defined Pd(111) electrodes: Studies by LEED, AES, HREELS and electrochemistry. *Journal of Molecular Structure*, **2008**, 890, 298-302	3.4	4
135	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, 152-9	9.3	12
134	The self-discharge mechanism of AB5AB5-type hydride electrodes in Ni/MH batteries. *International Journal of Hydrogen Energy*, **2006**, 31, 603-611	6.7	25
133	Molecular adsorption at well-defined electrode surfaces: hydroquinone on Pd(111) studied by EC-STM. *Langmuir*, **2006**, 22, 10762-5	4	10

132	Electrochemical activation and electrocatalytic enhancement of a hydride-forming metal alloy modified with palladium, platinum and nickel. *Electrochimica Acta*, **2006**, 51, 3658-3667	6.7	27
131	A DEMS study of the electrocatalytic hydrogenation and oxidation of p-dihydroxybenzene at polycrystalline and monocrystalline platinum electrodes. *Journal of Applied Electrochemistry*, **2006**, 36, 1253-1260	2.6	13
130	The Use of Thin-Layer Electroanalysis in the Study of the Chemisorption and Anodic Oxidation of Aromatic Molecules at Smooth Polycrystalline Palladium. *Electroanalysis*, **2005**, 17, 2121-2127	3	3
129	Grignard reagent formation. *Coordination Chemistry Reviews*, **2004**, 248, 623-652	23.2	99
128	Surface-oxide growth at platinum electrodes in aqueous H2SO4: Reexamination of its mechanism through combined cyclic-voltammetry, electrochemical quartz-crystal nanobalance, and Auger electron spectroscopy measurements. *Electrochimica Acta*, **2004**, 49, 1451-1459	6.7	76
127	The hydrophilic phosphatriazaadamantane ligand in the development of H2 production electrocatalysts: iron hydrogenase model complexes. *Journal of the American Chemical Society*, **2004**, 126, 12004-14	16.4	396
126	Corrosion behaviour of AB5-type hydride electrodes in alkaline electrolyte solution. *Journal of Applied Electrochemistry*, **2003**, 33, 325-331	2.6	11
125	Molecular adsorption at well-defined electrode surfaces: benzene on Pd(1 1 1) studied by EC-STM and HREELS. *Journal of Electroanalytical Chemistry*, **2003**, 554-555, 167-174	4.1	8
124	Electrochemical characterization of a hydride-forming metal alloy surface-modified with palladium. *Journal of Power Sources*, **2003**, 124, 309-313	8.9	19
123	Electrocatalysis of hydrogen production by active site analogues of the iron hydrogenase enzyme: structure/function relationships. *Dalton Transactions*, **2003**, 4158-4163	4.3	314
122	Improvement in the cycle life of LaB5 metal hydride electrodes by addition of ZnO to alkaline electrolyte. *Electrochimica Acta*, **2002**, 47, 1069-1078	6.7	7
121	The Interfacial Chemistry of Grignard Reagent Formation: Reactions of Clean Mg(0001) Surfaces **2002**, 185-196		
120	Electron-Transfer-Induced Molecular Reorientations: The Benzoquinone/Hydroquinone Reaction at Pd(111)-(square3xsquare3)R30 degrees -I Studied by EC-STM. *Journal of Colloid and Interface Science*, **2001**, 236, 197-199	9.3	11
119	Molecular chemisorption at well-defined Pd(111) electrode surfaces: hydroquinone sulfonate studied by UHV-EC-STM. *Journal of Electroanalytical Chemistry*, **2001**, 500, 374-378	4.1	11
118	Adsorbate-induced disorder-to-order surface reconstruction: iodine on Pd(111) revisited by EC-STM. *Journal of Electroanalytical Chemistry*, **2001**, 509, 170-174	4.1	11
117	Structure of ordered electrified interfaces: EC-STM of hydroquinone sulfonate at well-defined Pd(111) electrodes. *Physical Chemistry Chemical Physics*, **2001**, 3, 3303-3306	3.6	9
116	Atom-Resolved EC-STM Studies of Anion Adsorption at Well-Defined Surfaces: Pd(111) in Sulfuric Acid Solution. *Journal of Colloid and Interface Science*, **2000**, 227, 505-509	9.3	41
115	Determination of reaction resistances for metal-hydride electrodes during anodic polarization. *Journal of Power Sources*, **2000**, 85, 212-223	8.9	13

114	UHV–EC and EC–STM studies of molecular chemisorption at well-defined surfaces: hydroquinone and benzoquinone on Pd(hkl). *Electrochemistry Communications*, **1999**, 1, 135-138	5.1	20
113	Selective and quantitative removal of Pd films from Pt substrates by adsorbed-iodine-catalyzed anodic stripping. *Electrochimica Acta*, **1998**, 44, 1031-1036	6.7	7
112	The Interfacial Chemistry of the Grignard Reaction: The Composition of the Film Formed on Air-Exposed Magnesium. *Journal of Colloid and Interface Science*, **1998**, 206, 247-251	9.3	12
111	Electrode-surface coordination chemistry: ligand (-SH/I) substitutions at polycrystalline platinum. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1998**, 134, 31-37	5.1	2
110	Atomic-Resolution Electrochemical Scanning Tunneling Microscopy: Evidence of I–Pd Place Exchange in the I(Ads)-Catalyzed Dissolution of Pd(111). *Journal of Physical Chemistry B*, **1998**, 102, 6188-6192	3.4	6
109	Effect of Zn Additives to the Electrolyte on the Corrosion and Cycle Life of Some AB 5 H x Metal Hydride Electrodes. *Journal of the Electrochemical Society*, **1997**, 144, L258-L261	3.9	11
108	Electron Spectroscopy and Electrochemical Scanning Tunneling Microscopy of the Solid–Liquid Interface: Iodine-Catalyzed Dissolution of Pd(110). *ACS Symposium Series*, **1997**, 274-282	0.4	
107	Anodic dissolution and reordering of Pd(110) induced by chemisorbed iodine. *Surface Science*, **1997**, 385, 336-345	1.8	11
106	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	2.7	58
105	Adsorbed-Iodine-Catalyzed Dissolution of Pd Single-Crystal Electrodes: Studies by Electrochemical Scanning Tunneling Microscopy. *The Journal of Physical Chemistry*, **1996**, 100, 20027-20034		87
104	Ultrahigh-Vacuum Surface Analytical Methods in Electrochemical Studies of Single-Crystal Surfaces. *Modern Aspects of Electrochemistry*, **1996**, 1-60		6
103	Electrochemical digital etching in non-corrosive electrolyte: I(ads)-catalyzed dissolution and reordering of ion-bombarded Pd(111). *Journal of Electroanalytical Chemistry*, **1995**, 381, 239-241	4.1	6
102	In Situ Quartz Crystal Microgravimetric Studies of Molecular Adsorbates Containing Thiol and Hydroquinone Moieties Bound to Au(111) Surfaces in Aqueous Electrolytes. *Langmuir*, **1995**, 11, 4626-4628	4	21
101	Electrochemistry of the I-on-Pd single-crystal interface: studies by UHV-EC and in situ STM. *Surface Science*, **1995**, 335, 273-280	1.8	32
100	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		381
99	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	3.9	995
98	Electrochemical digital etching in inert electrolyte: Reordering of ion-bombarded Pd(100) by chemisorbed-iodine-catalyzed dissolution. *Electrochimica Acta*, **1995**, 40, 1203-1205	6.7	6
97	In situ reordering by iodine adsorption-desorption of extensively disordered (ion-bombarded) Pd(100) electrode surfaces. *Electrochimica Acta*, **1994**, 39, 2445-2448	6.7	1

96	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	4.1	16
95	Adsorbate-catalyzed layer-by-layer metal dissolution in inert electrolyte: Pd(100)-c(2 □2)-I. *Surface Science*, **1994**, 314, L909-L912	1.8	7
94	Site Selection in Electrode Reactions: Benzoquinone/Hydroquinone Redox at Submonolayer Sulfur-Coated Iridium Surfaces. *Langmuir*, **1994**, 10, 3929-3932	4	7
93	The electrode/electrolyte interface - a status report. *The Journal of Physical Chemistry*, **1993**, 97, 7147-7173		246
92	Absorbate-catalyzed dissolution in inert electrolyte: layer-by-layer corrosion of palladium(100)-c(2 .times. 2)-iodine. *Langmuir*, **1993**, 9, 3331-3333	4	14
91	Adsorbate-catalyzed layer-by-layer metal dissolution in halide-free solutions: palladium(111)(.sqroot.3.times..sqroot.3)R30.degree.-iodine. *The Journal of Physical Chemistry*, **1993**, 97, 10518-10520		20
90	Adsorbate-catalyzed corrosion in inert electrolyte: evidence by LEED of layer-by-layer dissolution of Pd(111)(□ □)R30°-I.. *Journal of Electroanalytical Chemistry*, **1993**, 350, 317-320	4.1	3
89	On the anodic oxidation of the Pd(111)c(4 □2)-CO adlattice in alkaline solution. *Journal of Electroanalytical Chemistry*, **1993**, 353, 281-287	4.1	5
88	In situ chemisorption-induced reordering of oxidatively disordered palladium (100) electrode surfaces. *Journal of the American Chemical Society*, **1992**, 114, 10950-10952	16.4	9
87	Ultra-high vacuum techniques in the study of single-crystal electrode surfaces. *Progress in Surface Science*, **1992**, 39, 325-443	6.6	103
86	In situ regeneration of clean and ordered Pd(111) electrode surfaces by oxidative chemisorption and reductive desorption of iodine. *Surface Science Letters*, **1991**, 249, L322-L326		1
85	Electrochemical regeneration of clean and well-ordered Pd(111) surfaces. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1991**, 297, 523-528		23
84	Adsorbate-catalyzed corrosion. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1991**, 303, 255-259		16
83	Structure, composition, thermal stability and electrochemical reactivity of HS□(aq)-derived species chemisorbed at Pd(III) electrode surfaces. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1991**, 300, 487-498		11
82	Site selection in electrode reactions: quinone/hydroquinone redox at submonolayer iodine-coated electrode surfaces. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1991**, 319, 387-394		4
81	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		67
80	The Influence of Chemisorbed Organic Monolayers on Electrode Surface Oxidation. *Corrosion*, **1991**, 47, 322-328	1.8	18
79	In situ regeneration of clean and ordered Pd(111) electrode surfaces by oxidative chemisorption and reductive desorption of iodine. *Surface Science*, **1991**, 249, L322-L326	1.8	14

78	Reversible redox chemistry, hydrodesulfurization, and anodic oxidation of thiophenols chemisorbed at smooth polycrystalline iridium electrodes. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1990**, 295, 123-138		8
77	Electrochemistry of mixed-metal interfaces. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1990**, 294, 225-238		
76	In situ chemisorption-induced reordering of oxidatively disordered palladium (111) electrode surfaces. *Journal of the American Chemical Society*, **1990**, 112, 7392-7393	16.4	22
75	Probing the electrocatalytic properties of bimetallic interfaces by chemisorption of redox-active species. *Langmuir*, **1990**, 6, 74-81	4	2
74	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	4	18
73	Surface coordination chemistry of monometallic and bimetallic electrocatalysts. *Chemical Reviews*, **1990**, 90, 771-793	68.1	69
72	Surface Coordination/Organometallic Chemistry of Monometal and Bimetallic Electrocatalysts **1990**, 316-317		
71	Probing the surface electrochemical properties of bimetallic alloys by chemisorption of redox-active species. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1989**, 265, 117-126		1
70	The influence of coadsorbed iodine on the surface chelation of 2,5-dihydroxythiophenol at indium electrodes. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1989**, 260, 193-199		5
69	Probing the surface electrochemical properties of electrodeposited metal layers by chemisorption of redox-active species: iodine on silver-plated platinum. *Electrochimica Acta*, **1989**, 34, 1387-1392	6.7	3
68	The interaction of I2(g), HI(g) and KI(aq) with Pd (111) electrode surfaces. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1989**, 264, 291-296		15
67	Observations on the surface composition of palladium cathodes after D2O electrolysis in LiOD solutions. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1989**, 267, 351-357		9
66	Selective electrode-surface coordination chemistry: adsorbate substitutions at smooth gold. *Langmuir*, **1989**, 5, 1092-1095	4	3
65	Spectroscopic and electrochemical studies of iodine coordinated to noble-metal electrode surfaces. *Langmuir*, **1989**, 5, 707-713	4	44
64	Reductive elimination of surface-coordinated iodine at platinum electrodes: the influence of codeposited silver. *The Journal of Physical Chemistry*, **1989**, 93, 2610-2614		6
63	Chemisorption and electrocatalytic reactivity of 3,6-dihydroxypyridazine at Au and Pt electrodes: a comparison. *Electrochimica Acta*, **1988**, 33, 1507-1511	6.7	3
62	Surface chelation of 2,5-dihydroxythiophenol at polycrystalline iridium electrodes. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1988**, 252, 453-459		7
61	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	2.7	16

60	Electrocatalytic hydrogenation and oxidation of model coal-derived compounds chemisorbed at smooth polycrystalline Pt: a survey. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1988**, 247, 241-251		4
59	The influence of orientation on the electrocatalytic hydrogenation of hydroquinone chemisorbed at smooth polycrystalline platinum electrodes. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1988**, 239, 375-386		12
58	On the pH dependence of the reductive desorption of iodine at polycrystalline and single-crystal platinum electrodes in aqueous solvents. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1988**, 240, 309-315		4
57	Reversible redox, hydrodesulfurization and anodic oxidation of chemisorbed thiophenols. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1988**, 241, 199-210		16
56	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. *Langmuir*, **1988**, 4, 1147-1151	4	35
55	Reductive Desorption of Iodine Chemisorbed on Smooth Polycrystalline Gold Electrodes. *Journal of the Electrochemical Society*, **1988**, 135, 616-618	3.9	18
54	Electrochemistry: The Senior but Underused Area of Surface Science. *ACS Symposium Series*, **1988**, 1-7	0.4	2
53	Redox-activated adsorption/desorption process: iodine/iodide at polycrystalline iridium in aqueous solvents. *The Journal of Physical Chemistry*, **1988**, 92, 2702-2706		8
52	Surface Organometallic and Coordination Chemistry of Iridium, Platinum, and Gold Electrocatalysts. *ACS Symposium Series*, **1988**, 528-540	0.4	
51	The Influence of Organic Solvents on Aromatic Adsorption at Platinum: Acetic Acid, Acetone, Acetonitrile, Dimethylacetamide, Dimethylsulfoxide, Sulfolane, and Tetrahydrofuran. *Journal of the Electrochemical Society*, **1987**, 134, 874-880	3.9	6
50	Kinetics of oriented adsorption: hydroquinone on platinum. *The Journal of Physical Chemistry*, **1987**, 91, 78-82		6
49	Reversible redox of 2,5-dihydroxythiophenol chemisorbed on gold and platinum electrodes: evidence for substrate-mediated adsorbate-adsorbate interactions. *Langmuir*, **1987**, 3, 595-597	4	32
48	Reductive desorption of iodine from platinum electrodes. A comparison in protic and aprotic solvents. *The Journal of Physical Chemistry*, **1987**, 91, 5660-5663		5
47	Surface coordination chemistry of noble-metal electrodes. Hydrogen/iodine ligand (adsorbate) substitution at smooth polycrystalline platinum. *Inorganic Chemistry*, **1987**, 26, 2760-2763	5.1	8
46	Electroactivity of strongly-absorbed redox centers: Reduction of iodine chemisorbed on platnium in aprotic solvent. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1987**, 221, 281-287		6
45	Determination of the surface area of gold electrodes by iodine chemisorption. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1987**, 233, 283-289		106
44	Hydrogenative/cathodic stripping of iodine chemisorbed on smooth polycrystalline platinum electrodes. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1987**, 219, 327-333		15
43	Kinetics of hydroquinone chemisorption at polycrystalline platinum electrodes. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1987**, 217, 121-128		9

42	Characterization of platinum electrodes by infrared spectroscopy. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1986**, 198, 65-80		30
41	Effect of non-aqueous solvents on the chemisorption and orientation of aromatic compounds at smooth polycrystalline platinum electrodes: naphthohydroquinone and tetrahydroxybiphenyl in water + acetonitrile solutions. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry* , **1986**, 201, 153-162		6
40	Analysis of products from reactions of chemisorbed monolayers at smooth platinum electrodes: electrochemical hydrodesulfurization of thiophenol derivatives. *Analytical Chemistry*, **1986**, 58, 2964-2968	5.8	10
39	Ordered disordered packing in mixed chemisorbed layers: vertically oriented polyphenolic compounds at smooth polycrystalline platinum electrodes. *Langmuir*, **1986**, 2, 20-23	4	5
38	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	4	65
37	Adsorbate exchange and insertion reactions at metal surfaces: hydroquinone and naphthohydroquinone at smooth polycrystalline platinum in aqueous solutions. *The Journal of Physical Chemistry*, **1985**, 89, 285-289		4
36	Influence of oriented-chemisorbed monolayers on the electrode kinetics of unadsorbed nonionic redox couples. *The Journal of Physical Chemistry*, **1985**, 89, 3227-3232		13
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