

Manuel P Soriaga

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ext. papers

7,582
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
185	Role of Structural and Electronic Properties of Pt and Pt Alloys on Electrocatalysis of Oxygen Reduction: An In Situ XANES and EXAFS Investigation. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 1409-1422	3.9	995
184	The hydrophilic phosphotriazaadamantane ligand in the development of H ₂ production electrocatalysts: iron hydrogenase model complexes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12004-14	16.4	396
183	Effect of Preparation Conditions of Pt Alloys on Their Electronic, Structural, and Electrocatalytic Activities for Oxygen Reduction - XRD, XAS, and Electrochemical Studies. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 4577-4589		381
182	Electrocatalysis of hydrogen production by active site analogues of the iron hydrogenase enzyme: structure/function relationships. <i>Dalton Transactions</i> , 2003 , 4158-4163	4.3	314
181	The electrode/electrolyte interface - a status report. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 7147-7173		246
180	Engineering Cu surfaces for the electrocatalytic conversion of CO: Controlling selectivity toward oxygenates and hydrocarbons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5918-5923	11.5	215
179	Determination of the orientation of adsorbed molecules at solid-liquid interfaces by thin-layer electrochemistry: aromatic compounds at platinum electrodes. <i>Journal of the American Chemical Society</i> , 1982 , 104, 2735-2742	16.4	212
178	Nickel-Gallium-Catalyzed Electrochemical Reduction of CO ₂ to Highly Reduced Products at Low Overpotentials. <i>ACS Catalysis</i> , 2016 , 6, 2100-2104	13.1	186
177	CoP as an Acid-Stable Active Electrocatalyst for the Hydrogen-Evolution Reaction: Electrochemical Synthesis, Interfacial Characterization and Performance Evaluation. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 29294-29300	3.8	179
176	The evolution of the polycrystalline copper surface, first to Cu(111) and then to Cu(100), at a fixed CO _{RR} potential: a study by operando EC-STM. <i>Langmuir</i> , 2014 , 30, 15053-6	4	174
175	The Reaction Mechanism with Free Energy Barriers for Electrochemical Dihydrogen Evolution on MoS ₂ . <i>Journal of the American Chemical Society</i> , 2015 , 137, 6692-8	16.4	146
174	Determination of the orientation of aromatic molecules adsorbed on platinum electrodes. The effect of solute concentration. <i>Journal of the American Chemical Society</i> , 1982 , 104, 3937-3945	16.4	124
173	Electrocatalysis of the hydrogen-evolution reaction by electrodeposited amorphous cobalt selenide films. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13835-13839	13	121
172	Operando Synthesis of Macroporous Molybdenum Diselenide Films for Electrocatalysis of the Hydrogen-Evolution Reaction. <i>ACS Catalysis</i> , 2014 , 4, 2866-2873	13.1	108
171	Determination of the surface area of gold electrodes by iodine chemisorption. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1987 , 233, 283-289		106
170	Ultra-high vacuum techniques in the study of single-crystal electrode surfaces. <i>Progress in Surface Science</i> , 1992 , 39, 325-443	6.6	103
169	Grignard reagent formation. <i>Coordination Chemistry Reviews</i> , 2004 , 248, 623-652	23.2	99

168	Operando Spectroscopic Analysis of CoP Films Electrocatalyzing the Hydrogen-Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12927-12930	16.4	92
167	Superlattices formed by electrodeposition of silver on iodine-pretreated Pt(111); studies by LEED, Auger spectroscopy and electrochemistry. <i>Surface Science</i> , 1983 , 130, 326-347	1.8	88
166	Adsorbed-Iodine-Catalyzed Dissolution of Pd Single-Crystal Electrodes: Studies by Electrochemical Scanning Tunneling Microscopy. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 20027-20034		87
165	Oriental transitions of aromatic molecules adsorbed on platinum electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1982 , 142, 317-336		87
164	Electrodeposition on a well-defined surface: Silver on Pt(111). <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1983 , 150, 165-180		82
163	Surface-oxide growth at platinum electrodes in aqueous H ₂ SO ₄ : Reexamination of its mechanism through combined cyclic-voltammetry, electrochemical quartz-crystal nanobalance, and Auger electron spectroscopy measurements. <i>Electrochimica Acta</i> , 2004 , 49, 1451-1459	6.7	76
162	Determination of the orientation of aromatic molecules adsorbed on platinum electrodes: the influence of iodide, a surface-active anion. <i>Journal of the American Chemical Society</i> , 1982 , 104, 2742-2747	16.4	76
161	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> , 2016 , 780, 290-295	4.1	69
160	Surface coordination chemistry of monometallic and bimetallic electrocatalysts. <i>Chemical Reviews</i> , 1990 , 90, 771-793	68.1	69
159	Anodic underpotential deposition and cathodic stripping of iodine at polycrystalline and single-crystal gold: studies by LEED, AES, XPS, and electrochemistry. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 5245-5249		67
158	Structure and composition of a platinum(111) surface as a function of pH and electrode potential in aqueous bromide solutions. <i>Langmuir</i> , 1986 , 2, 828-835	4	65
157	Electrode-surface coordination chemistry: ligand substitution and competitive coordination of halides at well-defined Pd(100) and Pd(111) single crystals. <i>Inorganica Chimica Acta</i> , 1997 , 255, 249-254	2.7	58
156	Surface coordination chemistry of platinum studied by thin-layer electrodes. Adsorption, orientation, and mode of binding of aromatic and quinonoid compounds. <i>Inorganic Chemistry</i> , 1985 , 24, 65-73	5.1	54
155	Electrochemical oxidation of aromatic compounds adsorbed on platinum electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1983 , 144, 207-215		51
154	Electrochemical processes at well-defined surfaces. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984 , 168, 43-66		48
153	Regulating the Product Distribution of CO Reduction by the Atomic-Level Structural Modification of the Cu Electrode Surface. <i>Electrocatalysis</i> , 2016 , 7, 391-399	2.7	46
152	Synthesis and hydrogen-evolution activity of tungsten selenide thin films deposited on tungsten foils. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 716, 45-48	4.1	46
151	Spectroscopic and electrochemical studies of iodine coordinated to noble-metal electrode surfaces. <i>Langmuir</i> , 1989 , 5, 707-713	4	44

150	A survey of factors influencing the stability of organic functional groups attached to platinum electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1981 , 125, 73-88		44
149	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	9.3	41
148	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		39
147	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		38
146	Cation competition in the electrical double-layer at a well-defined electrode surface Li ⁺ , Na ⁺ , K ⁺ , Cs ⁺ , H ⁺ , Mg ²⁺ , Ca ²⁺ , Ba ²⁺ , La ³⁺ , 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		37
145	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	4	35
144	pH and potential dependence of the electrical double layer at well-defined electrode surfaces: Cs ⁺ and Ca ²⁺ ions at Pt(111) (2.8 X 2.8)R30°-CN, Pt(111) (3.3 X 3.3)R14°-CN, and Pt(111) (2 X 2)-SCN. <i>Langmuir</i> , 1985 , 1, 587-592	4	34
143	Internalization of carbon black and maghemite iron oxide nanoparticle mixtures leads to oxidant production. <i>Chemical Research in Toxicology</i> , 2010 , 23, 1874-82	4	33
142	Surface Reconstruction of Polycrystalline Cu Electrodes in Aqueous KHCO ₃ Electrolyte at Potentials in the Early Stages of CO ₂ Reduction. <i>Electrocatalysis</i> , 2018 , 9, 526-530	2.7	32
141	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	1.8	32
140	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	4	32
139	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	2.7	31
138	Characterization of platinum electrodes by infrared spectroscopy. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1986 , 198, 65-80		30
137	Surface coordination chemistry of well-defined platinum electrodes: surface polyprotic acidity of platinum(111)(2.8 X 2.8)R30°-hydrogen isocyanide. <i>Inorganic Chemistry</i> , 1985 , 24, 1419-1421	5.1	29
136	Structural, compositional and electrochemical characterization of Pt-Co oxygen-reduction catalysts. <i>ChemPhysChem</i> , 2010 , 11, 1468-75	3.2	28
135	A scanning probe investigation of the role of surface motifs in the behavior of p-WSe ₂ photocathodes. <i>Energy and Environmental Science</i> , 2016 , 9, 164-175	35.4	27
134	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	6.7	27
133	Electrode reactions of oriented chemisorbed molecules. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1983 , 159, 101-116		27

132	The effect of orientation of adsorbed intermediates on the electrochemical oxidation of aromatic compounds. <i>Journal of Molecular Catalysis</i> , 1983 , 21, 211-221		26
131	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	5.1	26
130	A DEMS Study of the Reduction of CO ₂ , CO, and HCHO Pre-Adsorbed on Cu Electrodes: Empirical Inferences on the CO ₂ RR Mechanism. <i>Electrocatalysis</i> , 2015 , 6, 127-131	2.7	25
129	The self-discharge mechanism of AB ₅ AB ₅ -type hydride electrodes in Ni/MH batteries. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 603-611	6.7	25
128	Orientation of aromatic compounds adsorbed on platinum electrodes. The effect of temperature. <i>The Journal of Physical Chemistry</i> , 1983 , 87, 3048-3054		25
127	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		24
126	Electrochemical regeneration of clean and well-ordered Pd(111) surfaces. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991 , 297, 523-528		23
125	Cathodic regeneration of a clean and ordered Cu(1 0 0)-(111) surface from an air-oxidized and disordered electrode: An operando STM study. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 734, 7-9	4.1	22
124	In situ chemisorption-induced reordering of oxidatively disordered palladium (111) electrode surfaces. <i>Journal of the American Chemical Society</i> , 1990 , 112, 7392-7393	16.4	22
123	Synthesis, Characterization, and Reactivity of Ethynyl- and Propynyl-Terminated Si(111) Surfaces. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19847-19862	3.8	21
122	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	4	21
121	Adsorption of aromatic compound at platinum electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984 , 167, 79-95		21
120	Adsorption and orientation of hydroquinone and hydroquinone sulfonate at platinum electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984 , 163, 407-413		21
119	UHVEC and ECSTM studies of molecular chemisorption at well-defined surfaces: hydroquinone and benzoquinone on Pd(hkl). <i>Electrochemistry Communications</i> , 1999 , 1, 135-138	5.1	20
118	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		20
117	Adsorption and orientation of aromatic compounds at smooth polycrystalline platinum electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984 , 171, 359-363		20
116	Seriatim ECSTM-ECPMIRS of the adsorption of carbon monoxide on Cu(100) in alkaline solution at CO ₂ -reduction potentials. <i>Electrochemistry Communications</i> , 2018 , 91, 1-4	5.1	19
115	Electrochemical characterization of a hydride-forming metal alloy surface-modified with palladium. <i>Journal of Power Sources</i> , 2003 , 124, 309-313	8.9	19

114	Electrochemistry of chemisorbed molecules. 4. The effect of chirality on the orientation and electrochemical oxidation of l- and dl-DOPA. <i>The Journal of Physical Chemistry</i> , 1983 , 87, 232-235		19
113	The Influence of Chemisorbed Organic Monolayers on Electrode Surface Oxidation. <i>Corrosion</i> , 1991 , 47, 322-328	1.8	18
112	Oxidation-state changes of molecules irreversibly adsorbed on electrode surfaces as monitored by in situ Fourier transform infrared reflection absorption spectroscopy. <i>Langmuir</i> , 1990 , 6, 1234-1237	4	18
111	Reductive Desorption of Iodine Chemisorbed on Smooth Polycrystalline Gold Electrodes. <i>Journal of the Electrochemical Society</i> , 1988 , 135, 616-618	3.9	18
110	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	1.8	17
109	Electrochemical Formation of Germanene: pH 4.5. <i>Journal of the Electrochemical Society</i> , 2017 , 164, D469-D477	1.6	16
108	Electrochemical regeneration of clean and ordered Pd(100) surfaces by iodine adsorption-desorption: evidence from low-energy electron diffraction. <i>Journal of Electroanalytical Chemistry</i> , 1994 , 364, 247-249	4.1	16
107	Adsorbate-catalyzed corrosion. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991 , 303, 255-259		16
106	Surface coordination chemistry of noble-metal electrocatalysts: Oxidative addition and reductive elimination of iodide at iridium, platinum and gold in aqueous solutions. <i>Inorganica Chimica Acta</i> , 1988 , 148, 123-131	2.7	16
105	Reversible redox, hydrodesulfurization and anodic oxidation of chemisorbed thiophenols. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988 , 241, 199-210		16
104	Influence of temperature on the electrocatalytic oxidation of oriented-absorbed aromatic compounds on platinum. <i>The Journal of Physical Chemistry</i> , 1984 , 88, 1758-1761		16
103	The interaction of I ₂ (g), HI(g) and KI(aq) with Pd (111) electrode surfaces. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989 , 264, 291-296		15
102	Hydrogenative/cathodic stripping of iodine chemisorbed on smooth polycrystalline platinum electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1987 , 219, 327-333		15
101	The adsorption, orientation and electrochemical oxidation of hydroquinone at smooth platinum electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984 , 167, 97-106		15
100	Absorbate-catalyzed dissolution in inert electrolyte: layer-by-layer corrosion of palladium(100)-c(2 × 2)-iodine. <i>Langmuir</i> , 1993 , 9, 3331-3333	4	14
99	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	1.8	14
98	Overlayer Au-on-W Near-Surface Alloy for the Selective Electrochemical Reduction of CO ₂ to Methanol: Empirical (DEMS) Corroboration of a Computational (DFT) Prediction. <i>Electrocatalysis</i> , 2015 , 6, 493-497	2.7	13
97	Structure and composition of Cu(hkl) surfaces exposed to O ₂ and emersed from alkaline solutions: Prelude to UHV-EC studies of CO ₂ reduction at well-defined copper catalysts. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 716, 101-105	4.1	13

96	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	2.6	13
95	Determination of reaction resistances for metal-hydride electrodes during anodic polarization. <i>Journal of Power Sources</i> , 2000 , 85, 212-223	8.9	13
94	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		13
93	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		13
92	Synthesis and Characterization of Atomically Flat Methyl-Terminated Ge(111) Surfaces. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9006-14	16.4	12
91	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	9.3	12
90	Electrocatalytic hydrogenation and oxidation of aromatic compounds studied by DEMS: Benzene and p-dihydroxybenzene at ultrathin Pd films electrodeposited on Au(hkl) surfaces. <i>Journal of Colloid and Interface Science</i> , 2007 , 314, 152-9	9.3	12
89	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		12
88	Effect of Zn Additives to the Electrolyte on the Corrosion and Cycle Life of Some AB 5 H x Metal Hydride Electrodes. <i>Journal of the Electrochemical Society</i> , 1997 , 144, L258-L261	3.9	11
87	Anodic dissolution and reordering of Pd(110) induced by chemisorbed iodine. <i>Surface Science</i> , 1997 , 385, 336-345	1.8	11
86	Corrosion behaviour of AB5-type hydride electrodes in alkaline electrolyte solution. <i>Journal of Applied Electrochemistry</i> , 2003 , 33, 325-331	2.6	11
85	Electron-Transfer-Induced Molecular Reorientations: The Benzoquinone/Hydroquinone Reaction at Pd(111)-(square3xsquare3)R30 degrees -I Studied by EC-STM. <i>Journal of Colloid and Interface Science</i> , 2001 , 236, 197-199	9.3	11
84	Molecular chemisorption at well-defined Pd(111) electrode surfaces: hydroquinone sulfonate studied by UHV-EC-STM. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 500, 374-378	4.1	11
83	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	4.1	11
82	Structure, composition, thermal stability and electrochemical reactivity of HS(aq)-derived species chemisorbed at Pd(III) electrode surfaces. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991 , 300, 487-498		11
81	Molecular adsorption at well-defined electrode surfaces: hydroquinone on Pd(111) studied by EC-STM. <i>Langmuir</i> , 2006 , 22, 10762-5	4	10
80	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	7.8	10
79	Potential-Dependent Adsorption of CO and Its Low-Overpotential Reduction to CH ₃ CH ₂ 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	3.9	10

78	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	3.6	9
77	In situ chemisorption-induced reordering of oxidatively disordered palladium (100) electrode surfaces. <i>Journal of the American Chemical Society</i> , 1992 , 114, 10950-10952	16.4	9
76	Observations on the surface composition of palladium cathodes after D2O electrolysis in LiOD solutions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989 , 267, 351-357		9
75	Kinetics of hydroquinone chemisorption at polycrystalline platinum electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1987 , 217, 121-128		9
74	Layer-by-Layer Deposition of Pd on Pt(111) Electrode: an Electron Spectroscopy Electrochemistry Study. <i>Electrocatalysis</i> , 2012 , 3, 183-191	2.7	8
73	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	4.1	8
72	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		8
71	Surface coordination chemistry of noble-metal electrodes. Hydrogen/iodine ligand (adsorbate) substitution at smooth polycrystalline platinum. <i>Inorganic Chemistry</i> , 1987 , 26, 2760-2763	5.1	8
70	Redox-activated adsorption/desorption process: iodine/iodide at polycrystalline iridium in aqueous solvents. <i>The Journal of Physical Chemistry</i> , 1988 , 92, 2702-2706		8
69	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		8
68	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	4.1	7
67	Selective and quantitative removal of Pd films from Pt substrates by adsorbed-iodine-catalyzed anodic stripping. <i>Electrochimica Acta</i> , 1998 , 44, 1031-1036	6.7	7
66	Improvement in the cycle life of LaB5 metal hydride electrodes by addition of ZnO to alkaline electrolyte. <i>Electrochimica Acta</i> , 2002 , 47, 1069-1078	6.7	7
65	Adsorbate-catalyzed layer-by-layer metal dissolution in inert electrolyte: Pd(100)-c(2 × 2)-I. <i>Surface Science</i> , 1994 , 314, L909-L912	1.8	7
64	Site Selection in Electrode Reactions: Benzoquinone/Hydroquinone Redox at Submonolayer Sulfur-Coated Iridium Surfaces. <i>Langmuir</i> , 1994 , 10, 3929-3932	4	7
63	Surface chelation of 2,5-dihydroxythiophenol at polycrystalline iridium electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988 , 252, 453-459		7
62	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		7
61	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	4	7

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- 59 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
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- 57 Reductive elimination of surface-coordinated iodine at platinum electrodes: the influence of codeposited silver. *The Journal of Physical Chemistry*, **1989**, 93, 2610-2614 6
- 56 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
- 55 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
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- 53 Electroactivity of strongly-absorbed redox centers: Reduction of iodine chemisorbed on platinum in aprotic solvent. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1987**, 221, 281-287 6
- 52 Ultrahigh-Vacuum Surface Analytical Methods in Electrochemical Studies of Single-Crystal Surfaces. *Modern Aspects of Electrochemistry*, **1996**, 1-60 6
- 51 Reprint of: Surface reconstruction of pure-Cu single-crystal electrodes under CO-reduction potentials in alkaline solutions: A study by serially ECSTM-DEMS. *Journal of Electroanalytical Chemistry*, **2017**, 793, 113-118 4.1 5
- 50 (Invited) Investigations into the Formation of Germanene Using Electrochemical Atomic Layer Deposition (E-ALD). *ECS Transactions*, **2015**, 66, 129-140 1 5
- 49 On the anodic oxidation of the Pd(111)c(4 × 4)-CO adlattice in alkaline solution. *Journal of Electroanalytical Chemistry*, **1993**, 353, 281-287 4.1 5
- 48 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
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