

Svitlana Pylypenko

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Optimization of Extended-Surface PtNi Nanowire Oxygen Reduction Electrocatalysts Produced via Atomic Layer Deposition. <i>ACS Applied Energy Materials</i> , 2022, 5, 4587-4602.	2.5	7
2	Multi-Scale Multi-Technique Characterization Approach for Analysis of PEM Electrolyzer Catalyst Layer Degradation. <i>Journal of the Electrochemical Society</i> , 2022, 169, 064502.	1.3	18
3	Exploring the Interface of Skin-Layered Titanium Fibers for Electrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2021, 11, 2002926.	10.2	48
4	Operando X-ray Tomography Imaging of Solid-State Electrolyte Response to Li Evolution under Realistic Operating Conditions. <i>ACS Applied Energy Materials</i> , 2021, 4, 1346-1355.	2.5	11
5	Toward Optimizing Electrospun Nanofiber Fuel Cell Catalyst Layers: Microstructure and Pt Accessibility. <i>ACS Applied Energy Materials</i> , 2021, 4, 3341-3351.	2.5	21
6	Visualization, understanding, and mitigation of process-induced-membrane irregularities in gas diffusion electrode-based polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 14699-14712.	3.8	20
7	Editors' Choice Examining Performance and Durability of Anion Exchange Membrane Fuel Cells with Novel Spirocyclic Anion Exchange Membranes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 044525.	1.3	14
8	Physicochemical Properties of ECS Supports and Pt/ECS Catalysts. <i>ACS Applied Energy Materials</i> , 2021, 4, 9111-9123.	2.5	4
9	Development of high-performance roll-to-roll-coated gas-diffusion-electrode-based fuel cells. <i>Journal of Power Sources</i> , 2021, 506, 230039.	4.0	36
10	Periodic Trends behind the Stability of Metal Catalysts Supported on Graphene with Graphitic Nitrogen Defects. <i>ACS Omega</i> , 2021, 6, 28215-28228.	1.6	5
11	Decarboxylation of stearic acid over Ni/MOR catalysts. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 102-110.	1.6	9
12	Mass transport characterization of platinum group metal-free polymer electrolyte fuel cell electrodes using a differential cell with an integrated electrochemical sensor. <i>Journal of Power Sources</i> , 2020, 450, 227655.	4.0	17
13	Surface and bulk characterization of reservoir and cap-rocks: Past, present, and future. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, 050801.	0.9	1
14	Microscopy-based Multi-technique, Multi-scale Characterization of Polymer Electrolyte Membrane Devices. <i>Microscopy and Microanalysis</i> , 2020, 26, 772-774.	0.2	0
15	Tuning Gas Adsorption Selectivity and Diffusion Rates in Zeolites with Phosphonic Acid Monolayers. <i>Cell Reports Physical Science</i> , 2020, 1, 100036.	2.8	3
16	Utilizing ink composition to tune bulk-electrode gas transport, performance, and operational robustness for a Fe-N-C catalyst in polymer electrolyte fuel cell. <i>Nano Energy</i> , 2020, 75, 104943.	8.2	60
17	X-ray photoelectron spectroscopy and rotating disk electrode measurements of smooth sputtered Fe-N-C films. <i>Applied Surface Science</i> , 2020, 515, 146012.	3.1	11
18	Platinum-Nickel Nanowires with Improved Hydrogen Evolution Performance in Anion Exchange Membrane-Based Electrolysis. <i>ACS Catalysis</i> , 2020, 10, 9953-9966.	5.5	19

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19	Characterizing Complex Gas-Solid Interfaces with in Situ Spectroscopy: Oxygen Adsorption Behavior on Fe-N-C Catalysts. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16529-16543.	1.5	20
20	3D Atomic Understanding of Functionalized Carbon Nanostructures for Energy Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 1600-1611.	2.4	7
21	Thermal Activation of a Copper-Loaded Covalent Organic Framework for Near-Ambient Temperature Hydrogen Storage and Delivery. , 2020, 2, 227-232.		21
22	Fabrication of high-performance gas-diffusion-electrode based membrane-electrode assemblies. <i>Journal of Power Sources</i> , 2020, 450, 227581.	4.0	33
23	Improving the bulk gas transport of Fe-N-C platinum group metal-free nanofiber electrodes via electrospinning for fuel cell applications. <i>Nano Energy</i> , 2020, 73, 104791.	8.2	47
24	Impact of electrode thick spot irregularities on polymer electrolyte membrane fuel cell initial performance. <i>Journal of Power Sources</i> , 2020, 466, 228344.	4.0	12
25	ZIF 67 Based Highly Active Electrocatalysts as Oxygen Electrodes in Water Electrolyzer. <i>ACS Applied Energy Materials</i> , 2019, 2, 5568-5576.	2.5	35
26	Impact of Microporous Layer Roughness on Gas-Diffusion-Electrode-Based Polymer Electrolyte Membrane Fuel Cell Performance. <i>ACS Applied Energy Materials</i> , 2019, 2, 7757-7761.	2.5	46
27	Investigation of the Microstructure and Rheology of Iridium Oxide Catalyst Inks for Low-Temperature Polymer Electrolyte Membrane Water Electrolyzers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45068-45079.	4.0	34
28	Improved durability and activity of Pt/C catalysts through atomic layer deposition of tungsten nitride and subsequent thermal treatment. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 587-593.	10.8	33
29	Characterization of Complex Interactions at the Gas-Solid Interface with in Situ Spectroscopy: The Case of Nitrogen-Functionalized Carbon. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9074-9086.	1.5	17
30	Hydrocarbon catalyzed-selective catalytic reduction catalysts using core-shell atomic layer deposited CeO ₂ and ZrO ₂ . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, 020919.	0.9	3
31	The Roles of Oxide Growth and Sub-Surface Facets in Oxygen Evolution Activity of Iridium and Its Impact on Electrolysis. <i>Journal of the Electrochemical Society</i> , 2019, 166, F1243-F1252.	1.3	25
32	Dictating Pt-Based Electrocatalyst Performance in Polymer Electrolyte Fuel Cells, from Formulation to Application. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46953-46964.	4.0	80
33	Three-dimensional electronic resistivity mapping of solid electrolyte interphase on Si anode materials. <i>Nano Energy</i> , 2019, 55, 477-485.	8.2	56
34	2D and 3D Characterization of PtNi Nanowire Electrode Composition and Structure. <i>ACS Applied Nano Materials</i> , 2019, 2, 525-534.	2.4	10
35	Direct synthesis of Fe rich SBA-15 at low pH by in-situ formation of iron phosphate phase. <i>Microporous and Mesoporous Materials</i> , 2019, 276, 270-279.	2.2	10
36	Iridium-Based Nanowires as Highly Active, Oxygen Evolution Reaction Electrocatalysts. <i>ACS Catalysis</i> , 2018, 8, 2111-2120.	5.5	166

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37	Role of Surface Chemistry on Catalyst/Ionomer Interactions for Transition Metal–Nitrogen–Carbon Electrocatalysts. <i>ACS Applied Energy Materials</i> , 2018, 1, 68-77.	2.5	44
38	Control of interfacial acid–metal catalysis with organic monolayers. <i>Nature Catalysis</i> , 2018, 1, 148-155.	16.1	74
39	Fuel Cell Performance Implications of Membrane Electrode Assembly Fabrication with Platinum-Nickel Nanowire Catalysts. <i>Journal of the Electrochemical Society</i> , 2018, 165, F238-F245.	1.3	39
40	Deep eutectic solvent approach towards nickel/nickel nitride nanocomposites. <i>Catalysis Today</i> , 2018, 306, 9-15.	2.2	28
41	Strong Metal–Support Interactions of TiN and TiO ₂ –Nickel Nanocomposite Catalysts. <i>Journal of Physical Chemistry C</i> , 2018, 122, 339-348.	1.5	22
42	Toward All-Solid-State Lithium Batteries: Three-Dimensional Visualization of Lithium Migration in β -Li ₃ PS ₄ Ceramic Electrolyte. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3732-A3737.	1.3	46
43	Extended Thin-Film Electrocatalyst Structures via Pt Atomic Layer Deposition. <i>ACS Applied Nano Materials</i> , 2018, 1, 6150-6158.	2.4	7
44	Mechanical Properties and Chemical Reactivity of Li _x SiO _y Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38558-38564.	4.0	21
45	Palladium Intercalated into the Walls of Mesoporous Silica as Robust and Regenerable Catalysts for Hydrodeoxygenation of Phenolic Compounds. <i>ACS Omega</i> , 2018, 3, 7681-7691.	1.6	23
46	La and Al co-doped CaMnO ₃ perovskite oxides: From interplay of surface properties to anion exchange membrane fuel cell performance. <i>Journal of Power Sources</i> , 2018, 375, 265-276.	4.0	23
47	Atomic layer deposition of TiO ₂ for stabilization of Pt nanoparticle oxygen reduction reaction catalysts. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 973-984.	1.5	16
48	Effects of Metal Composition and Ratio on Peptide-Templated Multimetallic PdPt Nanomaterials. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8030-8040.	4.0	19
49	Platinum group metal-free electrocatalysts: Effects of synthesis on structure and performance in proton-exchange membrane fuel cell cathodes. <i>Journal of Power Sources</i> , 2017, 348, 30-39.	4.0	60
50	Exceptional Oxygen Reduction Reaction Activity and Durability of Platinum–Nickel Nanowires through Synthesis and Post-Treatment Optimization. <i>ACS Omega</i> , 2017, 2, 1408-1418.	1.6	53
51	Study of Lithium Silicide Nanoparticles as Anode Materials for Advanced Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16071-16080.	4.0	47
52	Multi-Component Fe–Ni Hydroxide Nanocatalyst for Oxygen Evolution and Methanol Oxidation Reactions under Alkaline Conditions. <i>ACS Catalysis</i> , 2017, 7, 365-379.	5.5	154
53	Fabrication of a mesoporous Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} perovskite as a low-cost and efficient catalyst for oxygen reduction. <i>Dalton Transactions</i> , 2017, 46, 13903-13911.	1.6	18
54	Spectroscopic investigation of nitrogen–functionalized carbon materials. <i>Surface and Interface Analysis</i> , 2016, 48, 283-292.	0.8	16

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55	Core Level Shifts of Hydrogenated Pyridinic and Pyrrolic Nitrogen in the Nitrogen-Containing Graphene-Based Electrocatalysts: In-Plane vs Edge Defects. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29225-29232.	1.5	123
56	Synthesis of a mixed-valent tin nitride and considerations of its possible crystal structures. <i>Journal of Chemical Physics</i> , 2016, 144, 144201.	1.2	29
57	Activity and Durability of Iridium Nanoparticles in the Oxygen Evolution Reaction. <i>Journal of the Electrochemical Society</i> , 2016, 163, F3105-F3112.	1.3	154
58	Application of thiolate self-assembled monolayers in selective alcohol oxidation for suppression of Pd catalyst deactivation. <i>Journal of Catalysis</i> , 2016, 344, 722-728.	3.1	13
59	Synthesis of high surface area $CaxLa(1-x)Al(1-x)MnxO(3-x)$ perovskite oxides for oxygen reduction electrocatalysis in alkaline media. <i>Catalysis Science and Technology</i> , 2016, 6, 7744-7751.	2.1	12
60	Synthesis of Porous Crystalline Doped Titania Photocatalysts Using Modified Precursor Strategy. <i>Chemistry of Materials</i> , 2016, 28, 7878-7888.	3.2	23
61	Mechanistic Study of Shape-Anisotropic Nanomaterials Synthesized via Spontaneous Galvanic Displacement. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25053-25060.	1.5	5
62	Direct Conversion of Hydride- to Siloxane-Terminated Silicon Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25822-25831.	1.5	9
63	Oxidation of Platinum Nickel Nanowires to Improve Durability of Oxygen-Reducing Electrocatalysts. <i>Journal of the Electrochemical Society</i> , 2016, 163, F296-F301.	1.3	22
64	Organometallic Complexes Anchored to Conductive Carbon for Electrocatalytic Oxidation of Methane at Low Temperature. <i>Journal of the American Chemical Society</i> , 2016, 138, 116-125.	6.6	34
65	A review on direct methanol fuel cells – In the perspective of energy and sustainability. <i>MRS Energy & Sustainability</i> , 2015, 2, 1.	1.3	135
66	Nitrogen Post Modification of PtRu/Carbon Catalysts for Improved Methanol Oxidation Reaction Performance in Alkaline Media. <i>Journal of the Electrochemical Society</i> , 2015, 162, F913-F918.	1.3	2
67	Single-step non-thermal plasma synthesis of 3C-SiC nanoparticles. <i>Materials Research Express</i> , 2015, 2, 015019.	0.8	4
68	Bandgap Tuning of Silicon Quantum Dots by Surface Functionalization with Conjugated Organic Groups. <i>Nano Letters</i> , 2015, 15, 3657-3663.	4.5	64
69	Molybdenum incorporated mesoporous silica catalyst for production of biofuels and value-added chemicals via catalytic fast pyrolysis. <i>Green Chemistry</i> , 2015, 17, 3035-3046.	4.6	45
70	Oxygen Reduction Reaction Measurements on Platinum Electrocatalysts Utilizing Rotating Disk Electrode Technique. <i>Journal of the Electrochemical Society</i> , 2015, 162, F1384-F1396.	1.3	211
71	Activity and Durability of Iridium Nanoparticles in the Oxygen Evolution Reaction. <i>ECS Transactions</i> , 2015, 69, 883-892.	0.3	14
72	Benchmarking the oxygen reduction reaction activity of Pt-based catalysts using standardized rotating disk electrode methods. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 16820-16830.	3.8	47

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73	Platinum Nickel Nanowires as Methanol Oxidation Electrocatalysts. <i>Journal of the Electrochemical Society</i> , 2015, 162, F1299-F1304.	1.3	15
74	Improvement in direct methanol fuel cell performance by treating the anode at high anodic potential. <i>Journal of Power Sources</i> , 2014, 245, 37-47.	4.0	11
75	Enhanced metal loading in SBA-15-type catalysts facilitated by salt addition: Synthesis, characterization and catalytic epoxide alcoholysis activity of molybdenum incorporated porous silica. <i>Applied Catalysis A: General</i> , 2014, 475, 469-476.	2.2	12
76	Single-Step Plasma Synthesis of Carbon-Coated Silicon Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19026-19034.	4.0	27
77	Universal and Versatile Route for Selective Covalent Tethering of Single-Site Catalysts and Functional Groups on the Surface of Ordered Mesoporous Carbons. <i>Chemistry of Materials</i> , 2014, 26, 2873-2882.	3.2	16
78	Recent progress on nitrogen/carbon structures designed for use in energy and sustainability applications. <i>Energy and Environmental Science</i> , 2014, 7, 1212-1249.	15.6	559
79	Platinum-Coated Nickel Nanowires as Oxygen-Reducing Electrocatalysts. <i>ACS Catalysis</i> , 2014, 4, 1114-1119.	5.5	79
80	Platinum-Coated Cobalt Nanowires as Oxygen Reduction Reaction Electrocatalysts. <i>ACS Catalysis</i> , 2014, 4, 2680-2686.	5.5	59
81	Deactivation and stability of K-CoMoS _x mixed alcohol synthesis catalysts. <i>Journal of Catalysis</i> , 2014, 309, 199-208.	3.1	28
82	High-Performance Alkaline Direct Methanol Fuel Cell using a Nitrogen-Postdoped Anode. <i>ChemSusChem</i> , 2014, 7, 1854-1857.	3.6	15
83	Effect of nitrogen post-doping on a commercial platinum-ruthenium/carbon anode catalyst. <i>Journal of Power Sources</i> , 2014, 248, 296-306.	4.0	15
84	Microfluidic Synthesis of Monodisperse Nanoporous Oxide Particles and Control of Hierarchical Pore Structure. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3524-3529.	4.0	16
85	Non-aqueous thermolytic route to oxynitride photomaterials using molecular precursors Ti(OtBu) ₄ and Ni,Mo(OtBu) ₃ . <i>Journal of Materials Chemistry A</i> , 2013, 1, 14066.	5.2	2
86	Nitrogen: unraveling the secret to stable carbon-supported Pt-alloy electrocatalysts. <i>Energy and Environmental Science</i> , 2013, 6, 2957.	15.6	99
87	Enhanced Stability of PtRu Supported on N-Doped Carbon for the Anode of a DMFC. <i>Journal of the Electrochemical Society</i> , 2012, 159, F768-F778.	1.3	19
88	In situ small-angle x-ray scattering analysis of improved catalyst-support interactions through nitrogen modification. <i>MRS Communications</i> , 2012, 2, 85-89.	0.8	10
89	Use of digital image processing of microscopic images and multivariate analysis for quantitative correlation of morphology, activity and durability of electrocatalysts. <i>RSC Advances</i> , 2012, 2, 4304.	1.7	20
90	Effect of Halide-Modified Model Carbon Supports on Catalyst Stability. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6728-6734.	4.0	22

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91	Aligned carbon nanotube array functionalization for enhanced atomic layer deposition of platinum electrocatalysts. <i>Applied Surface Science</i> , 2012, 258, 5212-5221.	3.1	52
92	Structure-to-property relationships in fuel cell catalyst supports: Correlation of surface chemistry and morphology with oxidation resistance of carbon blacks. <i>Journal of Power Sources</i> , 2012, 214, 303-313.	4.0	67
93	Hierarchically Structured Pt-Ru Alloy Ethanol Oxidation Electrocatalysts. <i>Electrocatalysis</i> , 2012, 3, 334-345.	1.5	3
94	Tuning Carbon-Based Fuel Cell Catalyst Support Structures via Nitrogen Functionalization. I. Investigation of Structural and Compositional Modification of Highly Oriented Pyrolytic Graphite Model Catalyst Supports as a Function of Nitrogen Implantation Dose. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13667-13675.	1.5	76
95	Tuning Carbon-Based Fuel Cell Catalyst Support Structures via Nitrogen Functionalization. II. Investigation of Durability of Pt-Ru Nanoparticles Supported on Highly Oriented Pyrolytic Graphite Model Catalyst Supports As a Function of Nitrogen Implantation Dose. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13676-13684.	1.5	54
96	Pt-Ru Alloyed Fuel Cell Catalysts Sputtered from a Single Alloyed Target. <i>ACS Catalysis</i> , 2011, 1, 1307-1315.	5.5	32
97	N-Modified Carbon Supported Pt-Ru Direct Methanol Fuel Cell Catalyst Performance and Durability. <i>ECS Meeting Abstracts</i> , 2011, , .	0.0	1
98	Functional DMFC Cathode Catalysts and Supports Based on Niobium Oxide Phase. <i>Journal of the Electrochemical Society</i> , 2011, 158, B485.	1.3	7
99	Application of XPS spectral subtraction and multivariate analysis for the characterization of Ar+ ion beam modified polyimide surfaces. <i>Applied Surface Science</i> , 2010, 256, 3204-3210.	3.1	24
100	The Role of Nitrogen Doping on Durability in the Pt-Ru/HOPG System. <i>ECS Transactions</i> , 2010, 33, 351-357.	0.3	4
101	The Influence of Surfaces and Deposition Processes on Pt Structure and Properties. <i>ECS Transactions</i> , 2010, 33, 221-228.	0.3	1
102	Atomic Layer Deposition of Platinum onto Functionalized Aligned MWNT Arrays for Fuel Cell Application. <i>ECS Transactions</i> , 2010, 33, 89-96.	0.3	3
103	Bifunctional Oxygen Reduction Reaction Mechanism on Non-Platinum Catalysts Derived from Pyrolyzed Porphyrins. <i>Journal of the Electrochemical Society</i> , 2010, 157, B54.	1.3	180
104	Droplet Based Microfluidics for Synthesis of Mesoporous Silica Microspheres. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1272, 1.	0.1	1
105	Effect of Alloying Pd with Oxophilic Metals on Electro-Oxidation of Alcohols in Alkaline Media. <i>ECS Transactions</i> , 2010, 33, 1655-1663.	0.3	0
106	Enhancement of Pt and Pt-alloy fuel cell catalyst activity and durability via nitrogen-modified carbon supports. <i>Energy and Environmental Science</i> , 2010, 3, 1437.	15.6	586
107	Selectivity of Cobalt-Based Non-Platinum Oxygen Reduction Catalysts in the Presence of Methanol and Formic Acid. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15190-15195.	1.5	19
108	Synthesis by Spray Pyrolysis of Mesoporous NbRuO ₂ as Electrocatalyst Supports in Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 86-95.	4.0	16

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109	Anion-Exchange Membrane Fuel Cells: Dual-Site Mechanism of Oxygen Reduction Reaction in Alkaline Media on Cobalt ^{II} -Polypyrrole Electrocatalysts. <i>Journal of Physical Chemistry C</i> , 2010, 114, 5049-5059.	1.5	255
110	Templated Platinum/Carbon Oxygen Reduction Fuel Cell Electrocatalysts. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4200-4207.	1.5	30
111	Microparticles with Bimodal Nanoporosity Derived by Microemulsion Templating. <i>Langmuir</i> , 2009, 25, 13540-13544.	1.6	44
112	Composition- and Morphology-Dependent Corrosion Stability of Ruthenium Oxide Materials. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 604-611.	4.0	23
113	Cross-Laboratory Experimental Study of Non-Noble-Metal Electrocatalysts for the Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1623-1639.	4.0	655
114	Non-platinum oxygen reduction electrocatalysts based on pyrolyzed transition metal macrocycles. <i>Electrochimica Acta</i> , 2008, 53, 7875-7883.	2.6	241
115	Direct Spectroscopic Observation of the Structural Origin of Peroxide Generation from Co-Based Pyrolyzed Porphyrins for ORR Applications. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8839-8849.	1.5	215
116	Predictive Modeling of Electrocatalyst Structure Based on Structure-to-Property Correlations of X-ray Photoelectron Spectroscopic and Electrochemical Measurements. <i>Langmuir</i> , 2008, 24, 9082-9088.	1.6	84
117	Potential-Directed Assembly of Aryl Iodonium Salts onto Silicon {100} Hydride Terminated and Platinum Surfaces. <i>Langmuir</i> , 2005, 21, 10899-10901.	1.6	26