

Svitlana Pylypenko

List of Publications by Year in descending order

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papers

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8813
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#	ARTICLE	IF	CITATIONS
1	Cross-Laboratory Experimental Study of Non-Noble-Metal Electrocatalysts for the Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1623-1639.	8.0	655
2	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.	30.8	586
3	Recent progress on nitrogen/carbon structures designed for use in energy and sustainability applications. <i>Energy and Environmental Science</i> , 2014, 7, 1212-1249.	30.8	559
4	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.	3.1	255
5	Non-platinum oxygen reduction electrocatalysts based on pyrolyzed transition metal macrocycles. <i>Electrochimica Acta</i> , 2008, 53, 7875-7883.	5.2	241
6	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.	3.1	215
7	Oxygen Reduction Reaction Measurements on Platinum Electrocatalysts Utilizing Rotating Disk Electrode Technique. <i>Journal of the Electrochemical Society</i> , 2015, 162, F1384-F1396.	2.9	211
8	Bifunctional Oxygen Reduction Reaction Mechanism on Non-Platinum Catalysts Derived from Pyrolyzed Porphyrins. <i>Journal of the Electrochemical Society</i> , 2010, 157, B54.	2.9	180
9	Iridium-Based Nanowires as Highly Active, Oxygen Evolution Reaction Electrocatalysts. <i>ACS Catalysis</i> , 2018, 8, 2111-2120.	11.2	166
10	Activity and Durability of Iridium Nanoparticles in the Oxygen Evolution Reaction. <i>Journal of the Electrochemical Society</i> , 2016, 163, F3105-F3112.	2.9	154
11	Multi-Component Fe ^{II} -Ni Hydroxide Nanocatalyst for Oxygen Evolution and Methanol Oxidation Reactions under Alkaline Conditions. <i>ACS Catalysis</i> , 2017, 7, 365-379.	11.2	154
12	A review on direct methanol fuel cells ^{II} in the perspective of energy and sustainability. <i>MRS Energy & Sustainability</i> , 2015, 2, 1.	3.0	135
13	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.	3.1	123
14	Nitrogen: unraveling the secret to stable carbon-supported Pt-alloy electrocatalysts. <i>Energy and Environmental Science</i> , 2013, 6, 2957.	30.8	99
15	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.	3.5	84
16	Dictating Pt-Based Electrocatalyst Performance in Polymer Electrolyte Fuel Cells, from Formulation to Application. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46953-46964.	8.0	80
17	Platinum-Coated Nickel Nanowires as Oxygen-Reducing Electrocatalysts. <i>ACS Catalysis</i> , 2014, 4, 1114-1119.	11.2	79
18	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.	3.1	76

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19	Control of interfacial acid–metal catalysis with organic monolayers. <i>Nature Catalysis</i> , 2018, 1, 148-155.	34.4	74
20	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.	7.8	67
21	Bandgap Tuning of Silicon Quantum Dots by Surface Functionalization with Conjugated Organic Groups. <i>Nano Letters</i> , 2015, 15, 3657-3663.	9.1	64
22	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.	7.8	60
23	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.	16.0	60
24	Platinum-Coated Cobalt Nanowires as Oxygen Reduction Reaction Electrocatalysts. <i>ACS Catalysis</i> , 2014, 4, 2680-2686.	11.2	59
25	Three-dimensional electronic resistivity mapping of solid electrolyte interphase on Si anode materials. <i>Nano Energy</i> , 2019, 55, 477-485.	16.0	56
26	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.	3.1	54
27	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.	3.5	53
28	Aligned carbon nanotube array functionalization for enhanced atomic layer deposition of platinum electrocatalysts. <i>Applied Surface Science</i> , 2012, 258, 5212-5221.	6.1	52
29	Exploring the Interface of Skin–Layered Titanium Fibers for Electrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2021, 11, 2002926.	19.5	48
30	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.	7.1	47
31	Study of Lithium Silicide Nanoparticles as Anode Materials for Advanced Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16071-16080.	8.0	47
32	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.	16.0	47
33	Toward All-Solid-State Lithium Batteries: Three-Dimensional Visualization of Lithium Migration in Li_3PS_4 Ceramic Electrolyte. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3732-A3737.	2.9	46
34	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.	5.1	46
35	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.	9.0	45
36	Microparticles with Bimodal Nanoporosity Derived by Microemulsion Templating. <i>Langmuir</i> , 2009, 25, 13540-13544.	3.5	44

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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.	5.1	44
38	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.	2.9	39
39	Development of high-performance roll-to-roll-coated gas-diffusion-electrode-based fuel cells. <i>Journal of Power Sources</i> , 2021, 506, 230039.	7.8	36
40	ZIF 67 Based Highly Active Electrocatalysts as Oxygen Electrodes in Water Electrolyzer. <i>ACS Applied Energy Materials</i> , 2019, 2, 5568-5576.	5.1	35
41	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.	13.7	34
42	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.	8.0	34
43	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.	20.2	33
44	Fabrication of high-performance gas-diffusion-electrode based membrane-electrode assemblies. <i>Journal of Power Sources</i> , 2020, 450, 227581.	7.8	33
45	Pt-Ru Alloyed Fuel Cell Catalysts Sputtered from a Single Alloyed Target. <i>ACS Catalysis</i> , 2011, 1, 1307-1315.	11.2	32
46	Templated Platinum/Carbon Oxygen Reduction Fuel Cell Electrocatalysts. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4200-4207.	3.1	30
47	Synthesis of a mixed-valent tin nitride and considerations of its possible crystal structures. <i>Journal of Chemical Physics</i> , 2016, 144, 144201.	3.0	29
48	Deactivation and stability of K-CoMoS _x mixed alcohol synthesis catalysts. <i>Journal of Catalysis</i> , 2014, 309, 199-208.	6.2	28
49	Deep eutectic solvent approach towards nickel/nickel nitride nanocomposites. <i>Catalysis Today</i> , 2018, 306, 9-15.	4.4	28
50	Single-Step Plasma Synthesis of Carbon-Coated Silicon Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19026-19034.	8.0	27
51	Potential-Directed Assembly of Aryl Iodonium Salts onto Silicon {100} Hydride Terminated and Platinum Surfaces. <i>Langmuir</i> , 2005, 21, 10899-10901.	3.5	26
52	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.	2.9	25
53	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.	6.1	24
54	Composition- and Morphology-Dependent Corrosion Stability of Ruthenium Oxide Materials. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 604-611.	8.0	23

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55	Synthesis of Porous Crystalline Doped Titania Photocatalysts Using Modified Precursor Strategy. <i>Chemistry of Materials</i> , 2016, 28, 7878-7888.	6.7	23
56	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.	3.5	23
57	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.	7.8	23
58	Effect of Halide-Modified Model Carbon Supports on Catalyst Stability. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6728-6734.	8.0	22
59	Oxidation of Platinum Nickel Nanowires to Improve Durability of Oxygen-Reducing Electrocatalysts. <i>Journal of the Electrochemical Society</i> , 2016, 163, F296-F301.	2.9	22
60	Strong Metal-Support Interactions of TiN and TiO ₂ -Nickel Nanocomposite Catalysts. <i>Journal of Physical Chemistry C</i> , 2018, 122, 339-348.	3.1	22
61	Mechanical Properties and Chemical Reactivity of Li _x SiO _y Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38558-38564.	8.0	21
62	Thermal Activation of a Copper-Loaded Covalent Organic Framework for Near-Ambient Temperature Hydrogen Storage and Delivery. , 2020, 2, 227-232.		21
63	Toward Optimizing Electrospun Nanofiber Fuel Cell Catalyst Layers: Microstructure and Pt Accessibility. <i>ACS Applied Energy Materials</i> , 2021, 4, 3341-3351.	5.1	21
64	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.	3.6	20
65	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.	3.1	20
66	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.	7.1	20
67	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.	3.1	19
68	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.	2.9	19
69	Effects of Metal Composition and Ratio on Peptide-Templated Multimetallic PdPt Nanomaterials. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8030-8040.	8.0	19
70	Platinum-Nickel Nanowires with Improved Hydrogen Evolution Performance in Anion Exchange Membrane-Based Electrolysis. <i>ACS Catalysis</i> , 2020, 10, 9953-9966.	11.2	19
71	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.	3.3	18
72	Multi-Scale Multi-Technique Characterization Approach for Analysis of PEM Electrolyzer Catalyst Layer Degradation. <i>Journal of the Electrochemical Society</i> , 2022, 169, 064502.	2.9	18

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73	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.	3.1	17
74	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.	7.8	17
75	Synthesis by Spray Pyrolysis of Mesoporous NbRuO ₂ as Electrocatalyst Supports in Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 86-95.	8.0	16
76	Microfluidic Synthesis of Monodisperse Nanoporous Oxide Particles and Control of Hierarchical Pore Structure. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3524-3529.	8.0	16
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.	6.7	16
78	Spectroscopic investigation of nitrogen-functionalized carbon materials. <i>Surface and Interface Analysis</i> , 2016, 48, 283-292.	1.8	16
79	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.	2.9	16
80	High-Performance Alkaline Direct Methanol Fuel Cell using a Nitrogen-Postdoped Anode. <i>ChemSusChem</i> , 2014, 7, 1854-1857.	6.8	15
81	Effect of nitrogen post-doping on a commercial platinum-ruthenium/carbon anode catalyst. <i>Journal of Power Sources</i> , 2014, 248, 296-306.	7.8	15
82	Platinum Nickel Nanowires as Methanol Oxidation Electrocatalysts. <i>Journal of the Electrochemical Society</i> , 2015, 162, F1299-F1304.	2.9	15
83	Activity and Durability of Iridium Nanoparticles in the Oxygen Evolution Reaction. <i>ECS Transactions</i> , 2015, 69, 883-892.	0.5	14
84	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.	2.9	14
85	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.	6.2	13
86	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.	4.3	12
87	Synthesis of high surface area Ca _x La _(1-x) Al _(1-x) Mn _x O _(3-δ) perovskite oxides for oxygen reduction electrocatalysis in alkaline media. <i>Catalysis Science and Technology</i> , 2016, 6, 7744-7751.	4.1	12
88	Impact of electrode thick spot irregularities on polymer electrolyte membrane fuel cell initial performance. <i>Journal of Power Sources</i> , 2020, 466, 228344.	7.8	12
89	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.	7.8	11
90	X-ray photoelectron spectroscopy and rotating disk electrode measurements of smooth sputtered Fe-N-C films. <i>Applied Surface Science</i> , 2020, 515, 146012.	6.1	11

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91	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.	5.1	11
92	In situ small-angle x-ray scattering analysis of improved catalystâ€™ support interactions through nitrogen modification. <i>MRS Communications</i> , 2012, 2, 85-89.	1.8	10
93	2D and 3D Characterization of PtNi Nanowire Electrode Composition and Structure. <i>ACS Applied Nano Materials</i> , 2019, 2, 525-534.	5.0	10
94	Direct synthesis of Fe rich SBA-15â€™ at low pH by in-situ formation of iron phosphate phase. <i>Microporous and Mesoporous Materials</i> , 2019, 276, 270-279.	4.4	10
95	Direct Conversion of Hydride- to Siloxane-Terminated Silicon Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25822-25831.	3.1	9
96	Decarboxylation of stearic acid over Ni/MOR catalysts. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 102-110.	3.2	9
97	Functional DMFC Cathode Catalysts and Supports Based on Niobium Oxide Phase. <i>Journal of the Electrochemical Society</i> , 2011, 158, B485.	2.9	7
98	Extended Thin-Film Electrocatalyst Structures via Pt Atomic Layer Deposition. <i>ACS Applied Nano Materials</i> , 2018, 1, 6150-6158.	5.0	7
99	3D Atomic Understanding of Functionalized Carbon Nanostructures for Energy Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 1600-1611.	5.0	7
100	Optimization of Extended-Surface PtNi Nanowire Oxygen Reduction Electrocatalysts Produced via Atomic Layer Deposition. <i>ACS Applied Energy Materials</i> , 2022, 5, 4587-4602.	5.1	7
101	Mechanistic Study of Shape-Anisotropic Nanomaterials Synthesized via Spontaneous Galvanic Displacement. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25053-25060.	3.1	5
102	Periodic Trends behind the Stability of Metal Catalysts Supported on Graphene with Graphitic Nitrogen Defects. <i>ACS Omega</i> , 2021, 6, 28215-28228.	3.5	5
103	The Role of Nitrogen Doping on Durability in the Pt-Ru/HOPG System. <i>ECS Transactions</i> , 2010, 33, 351-357.	0.5	4
104	Single-step non-thermal plasma synthesis of 3C-SiC nanoparticles. <i>Materials Research Express</i> , 2015, 2, 015019.	1.6	4
105	Physicochemical Properties of ECS Supports and Pt/ECS Catalysts. <i>ACS Applied Energy Materials</i> , 2021, 4, 9111-9123.	5.1	4
106	Atomic Layer Deposition of Platinum onto Functionalized Aligned MWNT Arrays for Fuel Cell Application. <i>ECS Transactions</i> , 2010, 33, 89-96.	0.5	3
107	Hierarchically Structured Ptâ€™ Alloy Ethanol Oxidation Electrocatalysts. <i>Electrocatalysis</i> , 2012, 3, 334-345.	3.0	3
108	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.	2.1	3

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109	Tuning Gas Adsorption Selectivity and Diffusion Rates in Zeolites with Phosphonic Acid Monolayers. Cell Reports Physical Science, 2020, 1, 100036.	5.6	3
110	Non-aqueous thermolytic route to oxynitride photomaterials using molecular precursors $Ti(OtBu)_4$ and $Ni\epsilon,Mo(OtBu)_3$. Journal of Materials Chemistry A, 2013, 1, 14066.	10.3	2
111	Nitrogen Post Modification of PtRu/Carbon Catalysts for Improved Methanol Oxidation Reaction Performance in Alkaline Media. Journal of the Electrochemical Society, 2015, 162, F913-F918.	2.9	2
112	The Influence of Surfaces and Deposition Processes on Pt Structure and Properties. ECS Transactions, 2010, 33, 221-228.	0.5	1
113	Droplet Based Microfluidics for Synthesis of Mesoporous Silica Microspheres. Materials Research Society Symposia Proceedings, 2010, 1272, 1.	0.1	1
114	N-Modified Carbon Supported Pt-Ru Direct Methanol Fuel Cell Catalyst Performance and Durability. ECS Meeting Abstracts, 2011, , .	0.0	1
115	Surface and bulk characterization of reservoir and cap-rocks: Past, present, and future. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, 050801.	2.1	1
116	Effect of Alloying Pd with Oxophilic Metals on Electro-Oxidation of Alcohols in Alkaline Media. ECS Transactions, 2010, 33, 1655-1663.	0.5	0
117	Microscopy-based Multi-technique, Multi-scale Characterization of Polymer Electrolyte Membrane Devices. Microscopy and Microanalysis, 2020, 26, 772-774.	0.4	0