

Thomas J Schmidt

List of Publications by Year in descending order

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papers

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13865

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305
docs citations

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times ranked

15833
citing authors

#	ARTICLE	IF	CITATIONS
1	Protagonists and spectators during photocatalytic solar water splitting with SrTaO ₃ N ₂ oxynitride. Journal of Materials Chemistry A, 2022, 10, 2374-2387.	10.3	10
2	Identifying Pitfalls in Lithium Metal Battery Characterization. Batteries and Supercaps, 2022, 5, .	4.7	5
3	Direct evidence of cobalt oxyhydroxide formation on a La _{0.2} Sr _{0.8} CoO ₃ perovskite water splitting catalyst. Journal of Materials Chemistry A, 2022, 10, 2434-2444.	10.3	12
4	Understanding the performance losses and "invasiveness" of in situ characterization steps during carbon corrosion experiments in polymer electrolyte membrane fuel cells. Electrochimica Acta, 2022, 402, 139537.	5.2	2
5	A model based investigation of evaporative cooling for polymer electrolyte fuel cells " Stack level analysis. Journal of Power Sources, 2022, 517, 230706.	7.8	6
6	High performance gas diffusion layers with added deterministic structures. Energy and Environmental Science, 2022, 15, 1293-1306.	30.8	12
7	Electrochemical Surface Area Quantification, CO ₂ Reduction Performance, and Stability Studies of Unsupported Three-Dimensional Au Aerogels versus Carbon-Supported Au Nanoparticles. ACS Materials Au, 2022, 2, 278-292.	6.0	18
8	Long-term energy efficiency and decarbonization trajectories for the Swiss pulp and paper industry. Sustainable Energy Technologies and Assessments, 2022, 52, 101937.	2.7	5
9	Time-Resolved Potential-Induced Changes in Fe/N/C Catalysts Studied by In Situ Modulation Excitation X-Ray Absorption Spectroscopy. Advanced Energy Materials, 2022, 12, .	19.5	33
10	Comment on "How green is blue hydrogen?". Energy Science and Engineering, 2022, 10, 1944-1954.	4.0	23
11	Physics-based OD-U-I-SoC cell performance model for aqueous organic redox flow batteries. Electrochimica Acta, 2022, 415, 140185.	5.2	10
12	Potential Pitfalls in the "Operando" XAS Study of Oxygen Evolution Electrocatalysts. ACS Energy Letters, 2022, 7, 1735-1740.	17.4	21
13	Determination of the porosity and its heterogeneity of fuel cell microporous layers by X-ray tomographic microscopy. Journal of Power Sources, 2022, 539, 231612.	7.8	16
14	Does the thermal conductivity of gas diffusion layer matter in polymer electrolyte fuel cells?. Journal of Power Sources, 2022, 540, 231539.	7.8	7
15	A model based investigation of evaporative cooling for polymer electrolyte fuel cells " System level analysis. Journal of Power Sources, 2022, 542, 231720.	7.8	4
16	Effect of Low and Sub-Freezing Temperature on the PEFC Performance of Unsupported Pt-Ni Aerogel Cathode Catalyst Layers. ECS Meeting Abstracts, 2022, MA2022-01, 1461-1461.	0.0	1
17	Investigating Perovskite Oxide Catalysts As Bifunctional Oxygen Electrodes Using Operando XAS. ECS Meeting Abstracts, 2022, MA2022-01, 1377-1377.	0.0	0
18	The Influence of Non-Charged Sidechains on the Performance of Meta-Polybenzimidazole Membranes in Vanadium Redox Flow Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 2043-2043.	0.0	0

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19	Electrochemical Surface Area Quantification, CO ₂ Reduction Performance and Stability Studies of Au and Au-Cu Aerogels. ECS Meeting Abstracts, 2022, MA2022-01, 2087-2087.	0.0	0
20	Interplay between Surface-Adsorbed CO and Bulk Pd-Hydride at CO ₂ Electroreduction Conditions. ECS Meeting Abstracts, 2022, MA2022-01, 2095-2095.	0.0	0
21	Oxygen Evolution Reaction on Ir-Oxide Based Materials Studied By Modulation Excitation X-Ray Absorption Spectroscopy. ECS Meeting Abstracts, 2022, MA2022-01, 2075-2075.	0.0	0
22	CO ₂ Electroreduction on Unsupported PdPt Aerogels: Effects of Alloying and Surface Composition on Product Selectivity. ACS Applied Energy Materials, 2022, 5, 8460-8471.	5.1	16
23	Effect of Catalyst Aggregate Size on the Mass Transport Properties of Non-Noble Metal Catalyst Layers in PEMFC Cathodes. ECS Meeting Abstracts, 2022, MA2022-01, 1460-1460.	0.0	0
24	Synergistic effects in oxygen evolution activity of mixed iridium-ruthenium pyrochlores. Electrochimica Acta, 2021, 366, 137327.	5.2	17
25	Oxygen evolution reaction activity and underlying mechanism of perovskite electrocatalysts at different pH. Materials Advances, 2021, 2, 345-355.	5.4	42
26	Decarbonization pathways of the Swiss cement industry towards net zero emissions. Journal of Cleaner Production, 2021, 288, 125413.	9.3	58
27	Unraveling two-phase transport in porous transport layer materials for polymer electrolyte water electrolysis. Journal of Materials Chemistry A, 2021, 9, 22102-22113.	10.3	22
28	Perovskite Oxide Based Electrodes for the Oxygen Reduction and Evolution Reactions: The Underlying Mechanism. ACS Catalysis, 2021, 11, 3094-3114.	11.2	115
29	Gas Diffusion Layers with Deterministic Structure for High Performance Polymer Electrolyte Fuel Cells. ACS Applied Materials & Interfaces, 2021, 13, 9908-9918.	8.0	17
30	A Method for Spatial Quantification of Water in Microporous Layers of Polymer Electrolyte Fuel Cells by X-ray Tomographic Microscopy. ACS Applied Materials & Interfaces, 2021, 13, 16227-16237.	8.0	18
31	Effect of Cobalt Speciation and the Graphitization of the Carbon Matrix on the CO ₂ Electroreduction Activity of Co/N-Doped Carbon Materials. ACS Applied Materials & Interfaces, 2021, 13, 15122-15131.	8.0	13
32	Composite Polybenzimidazole Membrane with High Capacity Retention for Vanadium Redox Flow Batteries. Molecules, 2021, 26, 1679.	3.8	16
33	Potential-Induced Spin Changes in Fe/N/C Electrocatalysts Assessed by In Situ X-ray Emission Spectroscopy. Angewandte Chemie, 2021, 133, 11813-11818.	2.0	5
34	Potential-Induced Spin Changes in Fe/N/C Electrocatalysts Assessed by In Situ X-ray Emission Spectroscopy. Angewandte Chemie - International Edition, 2021, 60, 11707-11712.	13.8	36
35	Investigation and Optimisation of Operating Conditions for Low-Temperature CO ₂ Reduction to CO in a Forward-Bias Bipolar-Membrane Electrolyser. Journal of the Electrochemical Society, 2021, 168, 043506.	2.9	19
36	Understanding Degradation Effects of Elevated Temperature Operating Conditions in Polymer Electrolyte Water Electrolyzers. Journal of the Electrochemical Society, 2021, 168, 044515.	2.9	15

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37	Evaporative Cooling for Polymer Electrolyte Fuel Cells – a Model Based System Level Analysis. ECS Meeting Abstracts, 2021, MA2021-01, 68-68.	0.0	0
38	Possible Repair Mechanism for Hydrocarbon-Based Ionomers Following Damage by Radical Attack. Journal of the Electrochemical Society, 2021, 168, 054514.	2.9	9
39	Correlation between Oxygen Vacancies and Oxygen Evolution Reaction Activity for a Model Electrode: PrBaCo ₂ O _{5+δ} . Angewandte Chemie - International Edition, 2021, 60, 14609-14619.	13.8	54
40	Mass Transport Limitations of Water Evaporation in Polymer Electrolyte Fuel Cell Gas Diffusion Layers. Energies, 2021, 14, 2967.	3.1	9
41	Insight into elevated temperature and thin membrane application for high efficiency in polymer electrolyte water electrolysis. Electrochimica Acta, 2021, 377, 138046.	5.2	15
42	Correlation between Oxygen Vacancies and Oxygen Evolution Reaction Activity for a Model Electrode: PrBaCo ₂ O _{5+δ} . Angewandte Chemie, 2021, 133, 14730-14740.	2.0	3
43	An Online Gas Chromatography Cell Setup for Accurate CO ₂ -Electroreduction Product Quantification. Journal of the Electrochemical Society, 2021, 168, 064504.	2.9	12
44	Asymmetric Butler-Volmer Kinetics of the Electrochemical Ce(III)/Ce(IV) Redox Couple on Polycrystalline Au Electrodes in Sulfuric Acid and the Dissociation Field Effect. ACS Catalysis, 2021, 11, 8140-8154.	11.2	4
45	Operando Liquid Pressure Determination in Polymer Electrolyte Fuel Cells. ACS Applied Materials & Interfaces, 2021, 13, 34003-34011.	8.0	15
46	Simulative Investigation on Local Hydrogen Starvation in PEMFCs: Influence of Water Transport and Humidity Conditions. Journal of the Electrochemical Society, 2021, 168, 074504.	2.9	9
47	Effects of Gas Diffusion Layer Substrates on PEFC Water Management: Part I. Operando Liquid Water Saturation and Gas Diffusion Properties. Journal of the Electrochemical Society, 2021, 168, 074505.	2.9	20
48	Enlightening the journey of metal-organic framework (derived) catalysts during the oxygen evolution reaction in alkaline media via operando X-ray absorption spectroscopy. Current Opinion in Electrochemistry, 2021, 30, 100845.	4.8	5
49	Comparison of Pt-Doped Membranes for Gas Crossover Suppression in Polymer Electrolyte Water Electrolysis. Journal of the Electrochemical Society, 2021, 168, 104502.	2.9	11
50	⁵⁷ Fe-Enrichment effect on the composition and performance of Fe-based O ₂ -reduction electrocatalysts. Physical Chemistry Chemical Physics, 2021, 23, 9147-9157.	2.8	10
51	Elucidation of Fluid Streamlining in Multi-Layered Porous Transport Layers for Polymer Electrolyte Water Electrolyzers by Operando Neutron Radiography. Journal of the Electrochemical Society, 2021, 168, 014505.	2.9	13
52	Laser Structured Gas Diffusion Layers for Improved Water Transport and Fuel Cell Performance. ACS Applied Energy Materials, 2021, 4, 12808-12818.	5.1	11
53	Electrochemical Surface Area Quantification, CO ₂ Reduction Performance and Stability Studies of Au and Au-Cu Aerogels. ECS Meeting Abstracts, 2021, MA2021-02, 830-830.	0.0	0
54	Agglomerate Size Effect on the PEMFC Performance of a Non-Noble Metal Oxygen Reduction Catalyst. ECS Meeting Abstracts, 2021, MA2021-02, 1142-1142.	0.0	0

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55	Effects of Hydrophobic Coatings on Non-Isothermal Ice Crystallization in PEMFC GDMS. ECS Meeting Abstracts, 2021, MA2021-02, 1043-1043.	0.0	0
56	Noninvasive Measurement of Conductivity Distribution in Polymer Electrolyte Fuel Cells (PEFCs). ECS Meeting Abstracts, 2021, MA2021-02, 1072-1072.	0.0	0
57	Electrochemical CO ₂ Reduction to CO in Forward-Bias Bipolar Membrane Co-Electrolyzers. ECS Meeting Abstracts, 2021, MA2021-02, 818-818.	0.0	0
58	Capillary Pressure Evolution in Operating Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2021, MA2021-02, 1027-1027.	0.0	0
59	X-Ray Absorption Spectroscopy Studies of Ir-Oxide Based Oxygen Evolution Catalysts Revisited. ECS Meeting Abstracts, 2021, MA2021-02, 1932-1932.	0.0	1
60	A Combined Numerical and Experimental Study of Evaporative Cooling for Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2021, MA2021-02, 1097-1097.	0.0	0
61	Microporous Layer 3D Porosity Distribution in Fuel Cell Gas Diffusion Layers. ECS Meeting Abstracts, 2021, MA2021-02, 1035-1035.	0.0	0
62	Low Temperature PEFC Performance of Unsupported Pt-Ni Aerogel Cathode Catalyst Layers. ECS Meeting Abstracts, 2021, MA2021-02, 1299-1299.	0.0	1
63	CO ₂ Electroreduction on Unsupported PdPt Aerogels: Effects of Alloying and Surface Composition. ECS Meeting Abstracts, 2021, MA2021-02, 828-828.	0.0	0
64	Towards Thin Membrane Use in Polymer Electrolyte Water Electrolysis Using Pt Recombination Catalyst. ECS Meeting Abstracts, 2021, MA2021-02, 1133-1133.	0.0	0
65	Long-term development of the industrial sector – Case study about electrification, fuel switching, and CCS in the USA. Computers and Chemical Engineering, 2020, 133, 106602.	3.8	35
66	Hierarchically Structured Porous Transport Layers for Polymer Electrolyte Water Electrolysis. Advanced Energy Materials, 2020, 10, 1903216.	19.5	87
67	Tuning the Co Oxidation State in Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} by Flame Spray Synthesis Towards High Oxygen Evolution Reaction Activity. Catalysts, 2020, 10, 984.	3.5	11
68	Spatially Resolved Analysis of Freezing during Isothermal PEFC Cold Starts with Time-of-Flight Neutron Imaging. Journal of the Electrochemical Society, 2020, 167, 064510.	2.9	14
69	Impact of the Microporous Layer on Gas Diffusion Layers with Patterned Wettability I: Material Design and Characterization. Journal of the Electrochemical Society, 2020, 167, 064516.	2.9	10
70	Multicarrier Energy Systems: Shaping Our Energy Future. Proceedings of the IEEE, 2020, 108, 1437-1456.	21.3	50
71	Towards a generic understanding of oxygen evolution reaction kinetics in polymer electrolyte water electrolysis. Energy and Environmental Science, 2020, 13, 2153-2166.	30.8	90
72	Transient and Steady State Two-Phase Flow in Anodic Porous Transport Layer of Proton Exchange Membrane Water Electrolyzer. Journal of the Electrochemical Society, 2020, 167, 084509.	2.9	35

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73	Optimal Image Denoising for In Situ X-ray Tomographic Microscopy of Liquid Water in Gas Diffusion Layers of Polymer Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2020, 167, 104505.	2.9	11
74	Systematic Material Study Reveals TiNb_2O_7 as a Model Wide-Bandgap Photoanode Material for Solar Water Splitting. <i>Chemistry - A European Journal</i> , 2020, 26, 7065-7073.	3.3	4
75	Probing the solid-liquid interface with tender x rays: A new ambient-pressure x-ray photoelectron spectroscopy endstation at the Swiss Light Source. <i>Review of Scientific Instruments</i> , 2020, 91, 023103.	1.3	45
76	Improved Water Management for PEFC with Interdigitated Flow Fields using Modified Gas Diffusion Layers. <i>Journal of the Electrochemical Society</i> , 2020, 167, 054503.	2.9	11
77	Water Electrolysis: Hierarchically Structured Porous Transport Layers for Polymer Electrolyte Water Electrolysis (<i>Adv. Energy Mater.</i> 2/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070009.	19.5	2
78	Examining the surface evolution of LaTiOxNy an oxynitride solar water splitting photocatalyst. <i>Nature Communications</i> , 2020, 11, 1728.	12.8	29
79	Droplet and Percolation Network Interactions in a Fuel Cell Gas Diffusion Layer. <i>Journal of the Electrochemical Society</i> , 2020, 167, 084506.	2.9	24
80	Co-electrolysis of CO_2 and H_2O : From electrode reactions to cell-level development. <i>Current Opinion in Electrochemistry</i> , 2020, 23, 89-95.	4.8	32
81	Surface Segregation Acts as Surface Engineering for the Oxygen Evolution Reaction on Perovskite Oxides in Alkaline Media. <i>Chemistry of Materials</i> , 2020, 32, 5256-5263.	6.7	16
82	Operando Visualization of Water Distribution in Gas Diffusion Media of PEFCs with an Optimized Neutron Grating Interferometer. <i>Journal of the Electrochemical Society</i> , 2020, 167, 064509.	2.9	4
83	Dynamic Neutron Imaging and Modeling of Cationic Impurities in Polymer Electrolyte Water Electrolyzer. <i>Journal of the Electrochemical Society</i> , 2020, 167, 144509.	2.9	6
84	Effects of PEMFC Operational History under Dry/Wet Conditions on Additional Voltage Losses due to Ionomer Migration. <i>Journal of the Electrochemical Society</i> , 2020, 167, 144513.	2.9	31
85	Impact of the Microporous Layer on Gas Diffusion Layers with Patterned Wettability II: Operando Performance and Water Distribution Analysis by Neutron Imaging. <i>Journal of the Electrochemical Society</i> , 2020, 167, 064521.	2.9	1
86	Communication—Pt-Doped Thin Membranes for Gas Crossover Suppression in Polymer Electrolyte Water Electrolysis. <i>Journal of the Electrochemical Society</i> , 2019, 166, F873-F875.	2.9	19
87	On the Oxidation State of Cu_2O upon Electrochemical CO_2 Reduction: An XPS Study. <i>ChemPhysChem</i> , 2019, 20, 3120-3127.	2.1	40
88	Operando X-ray characterization of high surface area iridium oxides to decouple their activity losses for the oxygen evolution reaction. <i>Energy and Environmental Science</i> , 2019, 12, 3038-3052.	30.8	90
89	Distinction between super-cooled water and ice with high duty cycle time-of-flight neutron imaging. <i>Review of Scientific Instruments</i> , 2019, 90, .	1.3	20
90	Coating Distribution Analysis on Gas Diffusion Layers for Polymer Electrolyte Fuel Cells by Neutron and X-ray High-Resolution Tomography. <i>ACS Omega</i> , 2019, 4, 17236-17243.	3.5	11

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91	Co/Fe Oxyhydroxides Supported on Perovskite Oxides as Oxygen Evolution Reaction Catalyst Systems. ACS Applied Materials & Interfaces, 2019, 11, 34787-34795.	8.0	43
92	Design and Synthesis of Ir/Ru Pyrochlore Catalysts for the Oxygen Evolution Reaction Based on Their Bulk Thermodynamic Properties. ACS Applied Materials & Interfaces, 2019, 11, 37748-37760.	8.0	61
93	Polymer Electrolyte Water Electrolysis: Correlating Performance and Porous Transport Layer Structure: Part II. Electrochemical Performance Analysis. Journal of the Electrochemical Society, 2019, 166, F555-F565.	2.9	103
94	CO ₂ -Assisted Regeneration of a Polymer Electrolyte Water Electrolyzer Contaminated with Metal Ion Impurities. Journal of the Electrochemical Society, 2019, 166, F610-F619.	2.9	11
95	Wetting properties of porous high temperature polymer electrolyte fuel cells materials with phosphoric acid. Physical Chemistry Chemical Physics, 2019, 21, 13126-13134.	2.8	17
96	Fe-Doping in Double Perovskite PrBaCo ₂ (1-x)Fe _{2x} O _{6-δ} : Insights into Structural and Electronic Effects to Enhance Oxygen Evolution Catalyst Stability. Catalysts, 2019, 9, 263.	3.5	25
97	Polymer Electrolyte Water Electrolysis: Correlating Porous Transport Layer Structural Properties and Performance: Part I. Tomographic Analysis of Morphology and Topology. Journal of the Electrochemical Society, 2019, 166, F270-F281.	2.9	88
98	Proton Transport in Catalyst Layers of a Polymer Electrolyte Water Electrolyzer: Effect of the Anode Catalyst Loading. Journal of the Electrochemical Society, 2019, 166, F214-F220.	2.9	46
99	Functional Role of Fe-Doping in Co-Based Perovskite Oxide Catalysts for Oxygen Evolution Reaction. Journal of the American Chemical Society, 2019, 141, 5231-5240.	13.7	250
100	Tackling Capacity Fading in Vanadium Redox Flow Batteries with Amphoteric Polybenzimidazole/Nafion Bilayer Membranes. ChemSusChem, 2019, 12, 2620-2627.	6.8	42
101	Fe-Based O ₂ -Reduction Catalysts Synthesized Using Na ₂ CO ₃ as a Pore-Inducing Agent. ACS Applied Energy Materials, 2019, 2, 1469-1479.	5.1	16
102	Selective Visualization of Water in Fuel Cell Gas Diffusion Layers with Neutron Dark-Field Imaging. Journal of the Electrochemical Society, 2019, 166, F149-F157.	2.9	19
103	Accelerated Stress Test Method for the Assessment of Membrane Lifetime in Vanadium Redox Flow Batteries. ACS Applied Materials & Interfaces, 2019, 11, 47917-47928.	8.0	8
104	Influence of operating conditions on permeation of CO ₂ through the membrane in an automotive PEMFC system. International Journal of Hydrogen Energy, 2019, 44, 12760-12771.	7.1	10
105	Design Principles of Bipolar Electrochemical Co-Electrolysis Cells for Efficient Reduction of Carbon Dioxide from Gas Phase at Low Temperature. Journal of the Electrochemical Society, 2019, 166, F34-F43.	2.9	106
106	Polybenzimidazole Fuel Cell Technology: Theory, Performance, and Applications. , 2019, , 477-514.		4
107	Impact of Support Physicochemical Properties on the CO Oxidation and the Oxygen Reduction Reaction Activity of Pt/SnO ₂ Electrocatalysts. Journal of Physical Chemistry C, 2018, 122, 4739-4746.	3.1	18
108	Influence of Carbon Material Properties on Activity and Stability of the Negative Electrode in Vanadium Redox Flow Batteries: A Model Electrode Study. ACS Applied Energy Materials, 2018, 1, 1166-1174.	5.1	25

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109	Unsupported Pt ₃ Ni Aerogels as Corrosion Resistant PEFC Anode Catalysts under Gross Fuel Starvation Conditions. Journal of the Electrochemical Society, 2018, 165, F3001-F3006.	2.9	19
110	Tomographic Analysis and Modeling of Polymer Electrolyte Fuel Cell Unsupported Catalyst Layers. Journal of the Electrochemical Society, 2018, 165, F7-F16.	2.9	15
111	Facile deposition of Pt nanoparticles on Sb-doped SnO ₂ support with outstanding active surface area for the oxygen reduction reaction. Catalysis Science and Technology, 2018, 8, 2672-2685.	4.1	25
112	Effect of glycidyl methacrylate (GMA) incorporation on water uptake and conductivity of proton exchange membranes. Radiation Physics and Chemistry, 2018, 144, 276-279.	2.8	6
113	<i>Operando</i> X-ray absorption investigations into the role of Fe in the electrochemical stability and oxygen evolution activity of Ni _{1-x} Fe _x O _y nanoparticles. Journal of Materials Chemistry A, 2018, 6, 24534-24549.	10.3	45
114	Breaking through the Cracks: On the Mechanism of Phosphoric Acid Migration in High Temperature Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2018, 165, F1176-F1183.	2.9	28
115	Highly Active Nanoperovskite Catalysts for Oxygen Evolution Reaction: Insights into Activity and Stability of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{2+δ} and PrBaCo ₂ O _{5+δ} . Advanced Functional Materials, 2018, 28, 1804355.	14.9	63
116	Multivariate calibration method for mass spectrometry of interfering gases such as mixtures of CO, N ₂ , and CO ₂ . Journal of Mass Spectrometry, 2018, 53, 1214-1221.	1.6	9
117	Scaling the Graft Length and Graft Density of Irradiation-Graded Copolymers. Macromolecular Chemistry and Physics, 2018, 219, 1800311.	2.2	3
118	Oxygen Evolution Reaction on Perovskites: A Multieffect Descriptor Study Combining Experimental and Theoretical Methods. ACS Catalysis, 2018, 8, 9567-9578.	11.2	98
119	Oxygen Evolution Reaction—The Enigma in Water Electrolysis. ACS Catalysis, 2018, 8, 9765-9774.	11.2	345
120	Revealing the role of phosphoric acid in all-vanadium redox flow batteries with DFT calculations and <i>in situ</i> analysis. Physical Chemistry Chemical Physics, 2018, 20, 23664-23673.	2.8	21
121	Comparing the kinetic activation energy of the oxygen evolution and reduction reactions. Electrochimica Acta, 2018, 281, 466-471.	5.2	50
122	Communication—Contribution of Catalyst Layer Proton Transport Resistance to Voltage Loss in Polymer Electrolyte Water Electrolyzers. Journal of the Electrochemical Society, 2018, 165, J3016-J3018.	2.9	42
123	Surface distortion as a unifying concept and descriptor in oxygen reduction reaction electrocatalysis. Nature Materials, 2018, 17, 827-833.	27.5	344
124	Decarbonisation of the Industrial Sector by means of Fuel Switching, Electrification and CCS. Computer Aided Chemical Engineering, 2018, , 1311-1316.	0.5	4
125	Combining SAXS and XAS To Study the <i>Operando</i> Degradation of Carbon-Supported Pt-Nanoparticle Fuel Cell Catalysts. ACS Catalysis, 2018, 8, 7000-7015.	11.2	58
126	Polybenzimidazole Fuel Cell Technology: Theory, Performance, and Applications. , 2018, , 1-38.		4

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127	Time-of-Flight Neutron Imaging for the Distinction of Super-Cooled Water and Ice during PEFC Cold-Starts. ECS Meeting Abstracts, 2018, , .	0.0	1
128	Silicone Nanofilament-Supported Mixed Nickel-Metal Oxides for Alkaline Water Electrolysis. Journal of the Electrochemical Society, 2017, 164, F203-F208.	2.9	7
129	IrO_2 - TiO_2 : A High-Surface-Area, Active, and Stable Electrocatalyst for the Oxygen Evolution Reaction. ACS Catalysis, 2017, 7, 2346-2352.	11.2	264
130	Effect of Acid Washing on the Oxygen Reduction Reaction Activity of Pt-Cu Aerogel Catalysts. Electrochimica Acta, 2017, 233, 210-217.	5.2	24
131	Stabilization of Pt Nanoparticles Due to Electrochemical Transistor Switching of Oxide Support Conductivity. Chemistry of Materials, 2017, 29, 2831-2843.	6.7	29
132	Critical Review "Identifying Critical Gaps for Polymer Electrolyte Water Electrolysis Development. Journal of the Electrochemical Society, 2017, 164, F387-F399.	2.9	347
133	Unraveling the Interaction Mechanism between Amidoxime Groups and Vanadium Ions at Various pH Conditions. Journal of Physical Chemistry C, 2017, 121, 6436-6445.	3.1	14
134	High pressure polymer electrolyte water electrolysis: Test bench development and electrochemical analysis. International Journal of Hydrogen Energy, 2017, 42, 12076-12086.	7.1	56
135	Amphoteric Ion-Exchange Membranes with Significantly Improved Vanadium Barrier Properties for All-Vanadium Redox Flow Batteries. ChemSusChem, 2017, 10, 2767-2777.	6.8	36
136	Numerical Partitioning Model for the Kouteck $\frac{1}{2}$ -Levich Analysis of Electrochemical Flow Cells with a Combined Channel/Wall-Jet Geometry. Journal of the Electrochemical Society, 2017, 164, E3448-E3456.	2.9	7
137	Performance of Different Carbon Electrode Materials: Insights into Stability and Degradation under Real Vanadium Redox Flow Battery Operating Conditions. Journal of the Electrochemical Society, 2017, 164, A1608-A1615.	2.9	57
138	State-of-the-art Nanofabrication in Catalysis. Chimia, 2017, 71, 160-169.	0.6	7
139	Effect of ball milling on the electrocatalytic activity of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_3$ towards the oxygen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 13130-13137.	10.3	30
140	Highly Active and Stable Iridium Pyrochlores for Oxygen Evolution Reaction. Chemistry of Materials, 2017, 29, 5182-5191.	6.7	172
141	Unsupported Pt-Ni Aerogels with Enhanced High Current Performance and Durability in Fuel Cell Cathodes. Angewandte Chemie, 2017, 129, 10847-10850.	2.0	15
142	Unsupported Pt-Ni Aerogels with Enhanced High Current Performance and Durability in Fuel Cell Cathodes. Angewandte Chemie - International Edition, 2017, 56, 10707-10710.	13.8	65
143	Mask-assisted electron radiation grafting for localized through-volume modification of porous substrates: influence of electron energy on spatial resolution. Radiation Physics and Chemistry, 2017, 135, 133-141.	2.8	10
144	Unraveling Thermodynamics, Stability, and Oxygen Evolution Activity of Strontium Ruthenium Perovskite Oxide. ACS Catalysis, 2017, 7, 3245-3256.	11.2	113

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145	Influence of surface oxygen groups on V(II) oxidation reaction kinetics. <i>Electrochemistry Communications</i> , 2017, 75, 13-16.	4.7	20
146	Tackling capacity fading in vanadium flow batteries with amphoteric membranes. <i>Journal of Power Sources</i> , 2017, 368, 68-72.	7.8	42
147	Capacitive electronic metal-support interactions: Outer surface charging of supported catalyst particles. <i>Physical Review B</i> , 2017, 96, .	3.2	44
148	Operando X-ray absorption spectroscopy: A powerful tool toward water splitting catalyst development. <i>Current Opinion in Electrochemistry</i> , 2017, 5, 20-26.	4.8	69
149	Nanostructuring Noble Metals as Unsupported Electrocatalysts for Polymer Electrolyte Fuel Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700548.	19.5	76
150	Electrochemical Hydrogen Compression: Efficient Pressurization Concept Derived from an Energetic Evaluation. <i>Journal of the Electrochemical Society</i> , 2017, 164, F1187-F1195.	2.9	53
151	Boosting Pt oxygen reduction reaction activity by tuning the tin oxide support. <i>Electrochemistry Communications</i> , 2017, 83, 90-95.	4.7	19
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