

David A Cullen

List of Publications by Year in descending order

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259
papers

19,350
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16411

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12558

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all docs

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times ranked

16761
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoporous textured Fe-N-C electrocatalysts as highly efficient cathodes for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2022, 520, 230819.	4.0	46
2	Covalent Organic Framework (COF) Derived Ni ₂ N ₄ C Catalysts for Electrochemical CO ₂ Reduction: Unraveling Fundamental Kinetic and Structural Parameters of the Active Sites. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	8
3	Multi-principal elemental intermetallic nanoparticles synthesized via a disorder-to-order transition. <i>Science Advances</i> , 2022, 8, eabm4322.	4.7	49
4	Pt Particle Size Affects Both the Charge Separation and Water Reduction Efficiencies of CdS@Pt Nanorod Photocatalysts for Light Driven H ₂ Generation. <i>Journal of the American Chemical Society</i> , 2022, 144, 2705-2715.	6.6	80
5	Exploring the Impacts of Conditioning on Proton Exchange Membrane Electrolyzers by <i>In Situ</i> Visualization and Electrochemistry Characterization. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9002-9012.	4.0	20
6	Tuning Catalyst Activation and Utilization Via Controlled Electrode Patterning for Low-Loading and High-Efficiency Water Electrolyzers. <i>Small</i> , 2022, 18, e2107745.	5.2	30
7	Recreating Fuel Cell Catalyst Degradation in Aqueous Environments for Identical-Location Scanning Transmission Electron Microscopy Studies. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 20418-20429.	4.0	15
8	Design of PGM-free cathodic catalyst layers for advanced PEM fuel cells. <i>Applied Catalysis B: Environmental</i> , 2022, 312, 121424.	10.8	26
9	Recovering carbon losses in CO ₂ electrolysis using a solid electrolyte reactor. <i>Nature Catalysis</i> , 2022, 5, 288-299.	16.1	90
10	Chemical preintercalation synthesis approach for the formation of new layered tungsten oxides. <i>Journal of Materials Science</i> , 2022, 57, 7814-7826.	1.7	2
11	Electrolyzer Performance Loss from Accelerated Stress Tests and Corresponding Changes to Catalyst Layers and Interfaces. <i>Journal of the Electrochemical Society</i> , 2022, 169, 054517.	1.3	14
12	Forum on Materials and Interfaces for Energy Storage and Conversion. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 20303-20305.	4.0	1
13	Efficient conversion of low-concentration nitrate sources into ammonia on a Ru-dispersed Cu nanowire electrocatalyst. <i>Nature Nanotechnology</i> , 2022, 17, 759-767.	15.6	318
14	Standardized protocols for evaluating platinum group metal-free oxygen reduction reaction electrocatalysts in polymer electrolyte fuel cells. <i>Nature Catalysis</i> , 2022, 5, 455-462.	16.1	47
15	MoS ₂ nanosheet integrated electrodes with engineered 1T-2H phases and defects for efficient hydrogen production in practical PEM electrolysis. <i>Applied Catalysis B: Environmental</i> , 2022, 313, 121458.	10.8	33
16	Elucidating the Roles of Amorphous Alumina Overcoat in Palladium-Catalyzed Selective Hydrogenation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24290-24298.	4.0	7
17	Understanding Recoverable vs Unrecoverable Voltage Losses and Long-Term Degradation Mechanisms in Anion Exchange Membrane Fuel Cells. <i>ACS Catalysis</i> , 2022, 12, 8116-8126.	5.5	10
18	Time-of-Flight Secondary Ion Mass Spectrometry (ToF-SIMS) for Analysis of Surface and Interface Chemistry of Porous Transport Layers. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1749-1749.	0.0	0

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19	Recreating Fuel Cell Catalyst Degradation in Aqueous Environments for Identical-Location Scanning Transmission Electron Microscopy Studies. ECS Meeting Abstracts, 2022, MA2022-01, 1452-1452.	0.0	0
20	Unveiling mechanism of surface-guided platinum nanowire growth. Journal of Materials Science, 2022, 57, 12875-12885.	1.7	2
21	Durable and High-Power Iron-Based Cathodes for Proton-Exchange Membrane Fuel Cells. ECS Meeting Abstracts, 2022, MA2022-01, 1465-1465.	0.0	0
22	Atomically Dispersed Single Metal Sites for Promoting Pt and Pt ₃ Co Catalysts in Heavy-Duty Meas. ECS Meeting Abstracts, 2022, MA2022-01, 1463-1463.	0.0	0
23	(Invited, Digital Presentation) Nanostructured Thin Film (NSTF) Iridium Catalyst Powder for Proton Exchange Membrane Water Electrolyzers. ECS Meeting Abstracts, 2022, MA2022-01, 1340-1340.	0.0	0
24	Metal Organic Framework-Based Alkaline Oxygen Evolution Reaction Electrocatalysts: Morphology, Metal Loading, and Durability. ECS Meeting Abstracts, 2022, MA2022-01, 1366-1366.	0.0	0
25	Electrocatalysis of Oxygen Reduction Reaction in a Polymer Electrolyte Fuel Cell with a Covalent Framework of Iron Phthalocyanine Aerogel. ACS Applied Energy Materials, 2022, 5, 7997-8003.	2.5	7
26	Atomically dispersed iron sites with a nitrogen-carbon coating as highly active and durable oxygen reduction catalysts for fuel cells. Nature Energy, 2022, 7, 652-663.	19.8	258
27	Electron tomography of unirradiated and irradiated nuclear graphite. Journal of Nuclear Materials, 2021, 545, 152649.	1.3	9
28	Engineering Atomically Dispersed FeN ₄ Active Sites for CO ₂ Electroreduction. Angewandte Chemie, 2021, 133, 1035-1045.	1.6	39
29	Engineering Atomically Dispersed FeN ₄ Active Sites for CO ₂ Electroreduction. Angewandte Chemie - International Edition, 2021, 60, 1022-1032.	7.2	121
30	Status and challenges for the application of platinum group metal-free catalysts in proton-exchange membrane fuel cells. Current Opinion in Electrochemistry, 2021, 25, 100627.	2.5	54
31	On the enhanced sulfur and coking tolerance of Ni-Co-rare earth oxide catalysts for the dry reforming of methane. Journal of Catalysis, 2021, 393, 215-229.	3.1	46
32	Tailoring the Radionuclide Encapsulation and Surface Chemistry of La(223Ra)VO ₄ Nanoparticles for Targeted Alpha Therapy. Journal of Nanotheranostics, 2021, 2, 33-50.	1.7	3
33	Dynamically Unveiling Metal-Nitrogen Coordination during Thermal Activation to Design High-Efficient Atomically Dispersed CoN ₄ Active Sites. Angewandte Chemie - International Edition, 2021, 60, 9516-9526.	7.2	119
34	Dynamically Unveiling Metal-Nitrogen Coordination during Thermal Activation to Design High-Efficient Atomically Dispersed CoN ₄ Active Sites. Angewandte Chemie, 2021, 133, 9602-9612.	1.6	21
35	AuPd Nanicosahedra: Atomic-Level Surface Modulation for Optimization of Electrocatalytic and Photocatalytic Energy Conversion. ACS Applied Energy Materials, 2021, 4, 2652-2662.	2.5	4
36	New roads and challenges for fuel cells in heavy-duty transportation. Nature Energy, 2021, 6, 462-474.	19.8	480

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37	Promoting Atomically Dispersed MnN ₄ Sites via Sulfur Doping for Oxygen Reduction: Unveiling Intrinsic Activity and Degradation in Fuel Cells. ACS Nano, 2021, 15, 6886-6899.	7.3	119
38	Porphyrin Aerogel Catalysts for Oxygen Reduction Reaction in Anion-Exchange Membrane Fuel Cells. Advanced Functional Materials, 2021, 31, 2100963.	7.8	70
39	Effect of Catalyst and Catalyst Layer Composition on Catalyst Support Durability. Journal of the Electrochemical Society, 2021, 168, 044502.	1.3	11
40	Single Atomic Iron Site Catalysts via Benign Aqueous Synthesis for Durability Improvement in Proton Exchange Membrane Fuel Cells. Journal of the Electrochemical Society, 2021, 168, 044501.	1.3	10
41	Highly Efficient Plasmon Induced Hot-Electron Transfer at Ag/TiO ₂ Interface. ACS Photonics, 2021, 8, 1497-1504.	3.2	30
42	Constructing Ultrathin W-Doped NiFe Nanosheets via Facile Electrosynthesis as Bifunctional Electrocatalysts for Efficient Water Splitting. ACS Applied Materials & Interfaces, 2021, 13, 20070-20080.	4.0	54
43	Impact of Catalyst Ink Dispersing Solvent on PEM Fuel Cell Performance and Durability. Journal of the Electrochemical Society, 2021, 168, 044517.	1.3	32
44	Synthesis strategies toward improved ordering of [MnO ₆] octahedra in tunnel structured 2D and 2D MnO ₂ . Scripta Materialia, 2021, 195, 113713.	2.6	8
45	Harvesting Sub-Bandgap IR Photons by Photothermionic Hot Electron Transfer in a Plasmonic p-n Junction. Nano Letters, 2021, 21, 4036-4043.	4.5	20
46	Ultrathin platinum nanowire based electrodes for high-efficiency hydrogen generation in practical electrolyzer cells. Chemical Engineering Journal, 2021, 410, 128333.	6.6	40
47	An Identical-Location STEM Study of the Degradation of Oer Electrocatalysts for PEM Electrolyzers. ECS Meeting Abstracts, 2021, MA2021-01, 1181-1181.	0.0	0
48	(Invited) Catalyst Assessments and Device Incorporation in Low Temperature Electrolysis. ECS Meeting Abstracts, 2021, MA2021-01, 1183-1183.	0.0	0
49	Electrochemical ammonia synthesis via nitrate reduction on Fe single atom catalyst. Nature Communications, 2021, 12, 2870.	5.8	605
50	Chemical vapour deposition of Fe-N-C oxygen reduction catalysts with full utilization of dense Fe-N ₄ sites. Nature Materials, 2021, 20, 1385-1391.	13.3	359
51	Bridging Thermal Catalysis and Electrocatalysis: Catalyzing CO ₂ Conversion with Carbon-Based Materials. Angewandte Chemie - International Edition, 2021, 60, 17472-17480.	7.2	21
52	Hollow Silica Particles: A Novel Strategy for Cost Reduction. Nanomaterials, 2021, 11, 1627.	1.9	5
53	General synthesis of single-atom catalysts with high metal loading using graphene quantum dots. Nature Chemistry, 2021, 13, 887-894.	6.6	362
54	Bridging Thermal Catalysis and Electrocatalysis: Catalyzing CO ₂ Conversion with Carbon-Based Materials. Angewandte Chemie, 2021, 133, 17613-17621.	1.6	1

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55	Elucidating fuel cell catalyst degradation mechanisms by identical-location transmission electron microscopy. <i>Microscopy and Microanalysis</i> , 2021, 27, 974-976.	0.2	3
56	Quantifying the projected unit cell size variation of off-axis PtCo catalyst nanoparticles through 4D-STEM. <i>Microscopy and Microanalysis</i> , 2021, 27, 1440-1442.	0.2	0
57	Atomic-scale Imaging of PGM-free Catalyst Active Sites by 30 keV 4D-STEM. <i>Microscopy and Microanalysis</i> , 2021, 27, 2976-2977.	0.2	0
58	Automated methods for improved characterization of alloy nanoparticle catalysts. <i>Microscopy and Microanalysis</i> , 2021, 27, 2616-2618.	0.2	0
59	Effects of Ink Formulation on the Structure and Performance of PGM-Free Catalyst Layer in PEMFCs. <i>ECS Transactions</i> , 2021, 104, 327-333.	0.3	1
60	W-induced morphological modification of NiFe layered double hydroxides as efficient electrocatalysts for overall water splitting. <i>Electrochimica Acta</i> , 2021, 395, 139199.	2.6	32
61	Synthesis of Novel Phases in Si Nanowires Using Diamond Anvil Cells at High Pressures and Temperatures. <i>Nano Letters</i> , 2021, 21, 1427-1433.	4.5	9
62	Engineered Thin Diffusion Layers for Anion-Exchange Membrane Electrolyzer Cells with Outstanding Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50957-50964.	4.0	19
63	Insights into the rapid two-phase transport dynamics in different structured porous transport layers of water electrolyzers through high-speed visualization. <i>Journal of Power Sources</i> , 2021, 516, 230641.	4.0	39
64	Construction of Inverse Metal-Zeolite Interfaces via Area-Selective Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 51759-51766.	4.0	0
65	Effects of Ink Formulation on the Structure and Performance of PGM-Free Catalyst Layer in PEMFCs. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1150-1150.	0.0	0
66	Amino Functionalization Approach to Synthesis of Carbon Supported Intermetallic Platinum Based Alloy Catalysts for Fuel Cell Application. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1171-1171.	0.0	0
67	Comparison of Anode-Catalyst-Layer Coating Methods for Low-Temperature Electrolysis. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1256-1256.	0.0	0
68	Standardized Protocols for Platinum Group Metal-Free Fuel Cell Catalysts for Oxygen Reduction Reaction. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1149-1149.	0.0	0
69	(Invited) In Situ Electron Microscopy Methods for Understanding Activity and Degradation in Fuel Cell Electrocatalysts. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1487-1487.	0.0	0
70	Anode Catalyst Durability in Low Temperature Electrolysis and the Impact of Hydrogen Crossover. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1259-1259.	0.0	0
71	Highly Efficient Honeycomb Ir Coated LGDL with Low Loading for Green Hydrogen Generation in PEM Electrolyzer Cells. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1270-1270.	0.0	0
72	Slow Auger Recombination of Trapped Excitons Enables Efficient Multiple Electron Transfer in CdS-Pt Nanorod Heterostructures. <i>Journal of the American Chemical Society</i> , 2021, 143, 20264-20273.	6.6	16

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73	Platinum Nanowire Based Electrodes with Boosted Catalyst Utilization for Efficient Hydrogen Production in PEM Electrolyzer Cells. ECS Meeting Abstracts, 2021, MA2021-02, 1272-1272.	0.0	0
74	Identical Location Scanning Transmission Electron Microscopy Study of Fuel Cell Catalyst Degradation. ECS Meeting Abstracts, 2021, MA2021-02, 1168-1168.	0.0	0
75	Mapping the Evolution of Surface Strain in PtCo Core-Shell Catalysts By 4D-STEM. ECS Meeting Abstracts, 2021, MA2021-02, 1020-1020.	0.0	0
76	(Invited) Electrode and Cell-Level Insights to Achieve High Performance and Long-Life AEM Fuel Cells and Electrolyzers. ECS Meeting Abstracts, 2021, MA2021-02, 1293-1293.	0.0	0
77	Method To Synthesize Micronized Spherical Carbon Particles from Lignin. Industrial & Engineering Chemistry Research, 2020, 59, 9-17.	1.8	6
78	Impacts of catalyst nanolayers on water permeation and swelling of polymer electrolyte membranes. Journal of Power Sources, 2020, 448, 227582.	4.0	8
79	Heat-Treated Aerogel as a Catalyst for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2020, 59, 2483-2489.	7.2	71
80	Single Cobalt Sites Dispersed in Hierarchically Porous Nanofiber Networks for Durable and High-Power PGM-Free Cathodes in Fuel Cells. Advanced Materials, 2020, 32, e2003577.	11.1	262
81	P-block single-metal-site tin/nitrogen-doped carbon fuel cell cathode catalyst for oxygen reduction reaction. Nature Materials, 2020, 19, 1215-1223.	13.3	278
82	Durability evaluation of a Fe-N-C catalyst in polymer electrolyte fuel cell environment via accelerated stress tests. Nano Energy, 2020, 78, 105209.	8.2	54
83	Single-Iron Site Catalysts with Self-Assembled Dual-size Architecture and Hierarchical Porosity for Proton-Exchange Membrane Fuel Cells. Applied Catalysis B: Environmental, 2020, 279, 119400.	10.8	94
84	Chemical Vapor Deposition for Atomically Dispersed and Nitrogen Coordinated Single Metal Site Catalysts. Angewandte Chemie, 2020, 132, 21882-21889.	1.6	10
85	Direct Characterization of Atomically Dispersed Catalysts: Nitrogen-Coordinated Ni Sites in Carbon-Based Materials for CO ₂ Electroreduction. Advanced Energy Materials, 2020, 10, 2001836.	10.2	46
86	Styrene-Based Elastomer Composites with Functionalized Graphene Oxide and Silica Nanofiber Fillers: Mechanical and Thermal Conductivity Properties. Nanomaterials, 2020, 10, 1682.	1.9	14
87	Chemical Vapor Deposition for Atomically Dispersed and Nitrogen Coordinated Single Metal Site Catalysts. Angewandte Chemie - International Edition, 2020, 59, 21698-21705.	7.2	128
88	Performance enhancement and degradation mechanism identification of a single-atom Co-N-C catalyst for proton exchange membrane fuel cells. Nature Catalysis, 2020, 3, 1044-1054.	16.1	443
89	Atomic-Scale Structural Mapping of Active Sites in Monolayer PGM-Free Catalysts by Low-Voltage 4D-STEM. Microscopy and Microanalysis, 2020, 26, 162-163.	0.2	2
90	Efficient Hot Electron Transfer from Small Au Nanoparticles. Nano Letters, 2020, 20, 4322-4329.	4.5	92

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91	Hybrid hollow silica particles: synthesis and comparison of properties with pristine particles. RSC Advances, 2020, 10, 22331-22334.	1.7	5
92	Multi-scale characterization and simulation of impact welding between immiscible Mg/steel alloys. Journal of Materials Science and Technology, 2020, 59, 149-163.	5.6	16
93	Enhancing Ce _x Zr _{1-x} O ₂ Activity for Methane Dry Reforming Using Subsurface Ni Dopants. ACS Catalysis, 2020, 10, 4070-4079.	5.5	99
94	Improving Electronic Conductivity of Layered Oxides through the Formation of Two-Dimensional Heterointerface for Intercalation Batteries. ACS Applied Energy Materials, 2020, 3, 3835-3844.	2.5	21
95	Impact of Polyvinylidene Fluoride on Nanofiber Cathode Structure and Durability in Proton Exchange Membrane Fuel Cells. Journal of the Electrochemical Society, 2020, 167, 054517.	1.3	13
96	Building Electron/Proton Nanohighways for Full Utilization of Water Splitting Catalysts. Advanced Energy Materials, 2020, 10, 1903871.	10.2	38
97	Recent developments in catalyst-related PEM fuel cell durability. Current Opinion in Electrochemistry, 2020, 21, 192-200.	2.5	216
98	Plasma Synthesis of Spherical Crystalline and Amorphous Electrolyte Nanopowders for Solid-State Batteries. ACS Applied Materials & Interfaces, 2020, 12, 11570-11578.	4.0	15
99	Adsorption of Colloidal Metal Nanoparticles via Solvent Engineering. ACS Catalysis, 2020, 10, 2378-2383.	5.5	7
100	Atomically Dispersed Single Ni Site Catalysts for Nitrogen Reduction toward Electrochemical Ammonia Synthesis Using N ₂ and H ₂ O. Small Methods, 2020, 4, 1900821.	4.6	148
101	Electrocatalysts: Building Electron/Proton Nanohighways for Full Utilization of Water Splitting Catalysts (Adv. Energy Mater. 16/2020). Advanced Energy Materials, 2020, 10, 2070075.	10.2	3
102	Exchange of Ions across the TiN/TaO _x Interface during Electroformation of TaO _x -Based Resistive Switching Devices. ACS Applied Materials & Interfaces, 2020, 12, 27378-27385.	4.0	12
103	Methanol tolerance of atomically dispersed single metal site catalysts: mechanistic understanding and high-performance direct methanol fuel cells. Energy and Environmental Science, 2020, 13, 3544-3555.	15.6	129
104	The Impact of Ink and Spray Variables on Catalyst Layer Properties, Electrolyzer Performance, and Electrolyzer Durability. Journal of the Electrochemical Society, 2020, 167, 144512.	1.3	37
105	Stabilizing Fuel Cell Materials Through Cryogenic Cooling for Simultaneous EELS-EDS Analysis. Microscopy and Microanalysis, 2020, 26, 1660-1662.	0.2	0
106	Enhanced Atomic-Scale Imaging of PGM-Free Catalysts By Low-Voltage Scanning Transmission Electron Microscopy. ECS Meeting Abstracts, 2020, MA2020-02, 2126-2126.	0.0	0
107	Impact of Carbon Support Structure on the Durability of PtCo Electrocatalysts. ECS Meeting Abstracts, 2020, MA2020-02, 2326-2326.	0.0	0
108	Oxygen Reduction Reaction Activity of Nanocolumnar Pt:Ni Alloy Thin Films By High Pressure Sputtering. ECS Meeting Abstracts, 2020, MA2020-02, 3857-3857.	0.0	0

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109	Microscopic Insights into the Degradation Mechanisms of Electrocatalysts in PEM Electrolyzers. ECS Meeting Abstracts, 2020, MA2020-02, 2451-2451.	0.0	0
110	Catalyst Assessments and Device Incorporation in Low Temperature Electrolysis. ECS Meeting Abstracts, 2020, MA2020-02, 2448-2448.	0.0	0
111	Solvothermal hot injection synthesis of core-shell AgNi nanoparticles. Journal of Alloys and Compounds, 2019, 770, 377-385.	2.8	16
112	Resolving Active Sites in Atomically Dispersed Electrocatalysts for Energy Conversion Applications. Microscopy and Microanalysis, 2019, 25, 2066-2067.	0.2	1
113	Elucidation of Fe-N-C electrocatalyst active site functionality via in-situ X-ray absorption and operando determination of oxygen reduction reaction kinetics in a PEFC. Applied Catalysis B: Environmental, 2019, 257, 117929.	10.8	61
114	Distribution and Valence State of Ru Species on CeO ₂ Supports: Support Shape Effect and Its Influence on CO Oxidation. ACS Catalysis, 2019, 9, 11088-11103.	5.5	159
115	Thermally Driven Structure and Performance Evolution of Atomically Dispersed FeN ₄ Sites for Oxygen Reduction. Angewandte Chemie, 2019, 131, 19147-19156.	1.6	57
116	Thermally Driven Structure and Performance Evolution of Atomically Dispersed FeN ₄ Sites for Oxygen Reduction. Angewandte Chemie - International Edition, 2019, 58, 18971-18980.	7.2	362
117	Ionic Conductance through Graphene: Assessing Its Applicability as a Proton Selective Membrane. ACS Nano, 2019, 13, 12109-12119.	7.3	28
118	Ruthenium Diffusion on Different CeO ₂ Surfaces: Support Shape Effect. Microscopy and Microanalysis, 2019, 25, 2198-2199.	0.2	3
119	Brittle fracture to recoverable plasticity: polytypism-dependent nanomechanics in todorokite-like nanobelts. Nanoscale Advances, 2019, 1, 357-366.	2.2	9
120	Highly active atomically dispersed CoN ₄ fuel cell cathode catalysts derived from surfactant-assisted MOFs: carbon-shell confinement strategy. Energy and Environmental Science, 2019, 12, 250-260.	15.6	691
121	Mass-transport properties of electrosprayed Pt/C catalyst layers for polymer-electrolyte fuel cells. Journal of Power Sources, 2019, 427, 250-259.	4.0	34
122	High-performance fuel cell cathodes exclusively containing atomically dispersed iron active sites. Energy and Environmental Science, 2019, 12, 2548-2558.	15.6	457
123	Voltage gated inter-cation selective ion channels from graphene nanopores. Nanoscale, 2019, 11, 9856-9861.	2.8	37
124	Effect of Moisture on Dopant Segregation in Solid Hosts. Journal of Physical Chemistry C, 2019, 123, 12234-12241.	1.5	11
125	Stable Metallic Enrichment in Conductive Filaments in TaO _x -Based Resistive Switches Arising from Competing Diffusive Fluxes. Advanced Electronic Materials, 2019, 5, 1800954.	2.6	28
126	Thermal-gradient-driven elemental segregation in Ge ₂ Sb ₂ Te ₅ phase change memory cells. Applied Physics Letters, 2019, 114, .	1.5	15

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127	Atomic-level active sites of efficient imidazolate framework-derived nickel catalysts for CO ₂ reduction. Journal of Materials Chemistry A, 2019, 7, 26231-26237.	5.2	72
128	Electrospun Particle/Polymer Fiber Electrodes with a Neat Nafion Binder for Hydrogen/Air Fuel Cells. ECS Transactions, 2019, 92, 595-602.	0.3	11
129	Improved electrochemical cycling stability of intercalation battery electrodes via control of material morphology. Ionics, 2019, 25, 493-502.	1.2	8
130	A novel PEMEC with 3D printed non-conductive bipolar plate for low-cost hydrogen production from water electrolysis. Energy Conversion and Management, 2019, 182, 108-116.	4.4	65
131	Hard-Magnet L10-CoPt Nanoparticles Advance Fuel Cell Catalysis. Joule, 2019, 3, 124-135.	11.7	326
132	Same solution synthesis and self-assembly of porous silica nanoparticles into microspheres. Applied Surface Science, 2019, 467-468, 634-639.	3.1	8
133	Microstructure and coercivity in alnico 9. Journal of Magnetism and Magnetic Materials, 2019, 471, 142-147.	1.0	10
134	Unveiling Active Sites of CO ₂ Reduction on Nitrogen-Coordinated and Atomically Dispersed Iron and Cobalt Catalysts. ACS Catalysis, 2018, 8, 3116-3122.	5.5	405
135	PtCo Cathode Catalyst Morphological and Compositional Changes after PEM Fuel Cell Accelerated Stress Testing. Journal of the Electrochemical Society, 2018, 165, F3078-F3084.	1.3	28
136	Durability of Pt-Co Alloy Polymer Electrolyte Fuel Cell Cathode Catalysts under Accelerated Stress Tests. Journal of the Electrochemical Society, 2018, 165, F3166-F3177.	1.3	66
137	Nitrogen-Coordinated Single Cobalt Atom Catalysts for Oxygen Reduction in Proton Exchange Membrane Fuel Cells. Advanced Materials, 2018, 30, 1706758.	11.1	788
138	Tunnel structured manganese oxide nanowires as redox active electrodes for hybrid capacitive deionization. Nano Energy, 2018, 44, 476-488.	8.2	145
139	Fabrication of Au ₂₅ (SG) ₁₈ -ZIF-8 Nanocomposites: A Facile Strategy to Position Au ₂₅ (SG) ₁₈ Nanoclusters Inside and Outside ZIF-8. Advanced Materials, 2018, 30, 1704576.	11.1	129
140	A physical catalyst for the electrolysis of nitrogen to ammonia. Science Advances, 2018, 4, e1700336.	4.7	264
141	Metal-organic framework-derived nitrogen-doped highly disordered carbon for electrochemical ammonia synthesis using N ₂ and H ₂ O in alkaline electrolytes. Nano Energy, 2018, 48, 217-226.	8.2	406
142	Strain-Driven Stacking Faults in CdSe/CdS Core/Shell Nanorods. Journal of Physical Chemistry Letters, 2018, 9, 1900-1906.	2.1	30
143	Novel thin/tunable gas diffusion electrodes with ultra-low catalyst loading for hydrogen evolution reactions in proton exchange membrane electrolyzer cells. Nano Energy, 2018, 47, 434-441.	8.2	118
144	Isolation of a 300 kDa, Au ₁₄₀₀ Gold Compound, the Standard 3.6 nm Capstone to a Series of Plasmonic Nanocrystals Protected by Aliphatic-like Thiolates. Journal of Physical Chemistry Letters, 2018, 9, 6825-6832.	2.1	18

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145	Solution-Phase Synthesis of Silica Fibers and Their Use in Making Transparent High-Strength Silica-Polymer Composites. <i>ChemistrySelect</i> , 2018, 3, 13427-13431.	0.7	1
146	Selective and Stable Non-Noble-Metal Intermetallic Compound Catalyst for the Direct Dehydrogenation of Propane to Propylene. <i>Journal of the American Chemical Society</i> , 2018, 140, 14010-14014.	6.6	69
147	Atomically dispersed manganese catalysts for oxygen reduction in proton-exchange membrane fuel cells. <i>Nature Catalysis</i> , 2018, 1, 935-945.	16.1	1,075
148	A general synthesis approach for supported bimetallic nanoparticles via surface inorganometallic chemistry. <i>Science</i> , 2018, 362, 560-564.	6.0	176
149	Geometry-Induced Spatial Variation of Microstructure Evolution During Selective Electron Beam Melting of Rene-N5. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 5080-5096.	1.1	38
150	Colloidal cobalt-doped ZnO nanoparticles by microwave-assisted synthesis and their utilization in thin composite layers with MEH-PPV as an electroluminescent material for polymer light emitting diodes. <i>Organic Electronics</i> , 2018, 59, 337-348.	1.4	24
151	Developing titanium micro/nano porous layers on planar thin/tunable LGDLs for high-efficiency hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 14618-14628.	3.8	52
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