Zhongwei Chen

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2769229/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	30 Years of Lithiumâ€ion Batteries. Advanced Materials, 2018, 30, e1800561.	21.0	3,039
2	Batteries and fuel cells for emerging electric vehicle markets. Nature Energy, 2018, 3, 279-289.	39.5	1,944
3	A review on non-precious metal electrocatalysts for PEM fuel cells. Energy and Environmental Science, 2011, 4, 3167.	30.8	1,651
4	Electrically Rechargeable Zinc–Air Batteries: Progress, Challenges, and Perspectives. Advanced Materials, 2017, 29, 1604685.	21.0	1,143
5	A review of graphene and graphene oxide sponge: material synthesis and applications to energy and the environment. Energy and Environmental Science, 2014, 7, 1564.	30.8	996
6	Supportless Pt and PtPd Nanotubes as Electrocatalysts for Oxygen-Reduction Reactions. Angewandte Chemie - International Edition, 2007, 46, 4060-4063.	13.8	780
7	Siliconâ€Based Anodes for Lithiumâ€Ion Batteries: From Fundamentals to Practical Applications. Small, 2018, 14, 1702737.	10.0	650
8	Durability investigation of carbon nanotube as catalyst support for proton exchange membrane fuel cell. Journal of Power Sources, 2006, 158, 154-159.	7.8	570
9	New Concepts in Electrolytes. Chemical Reviews, 2020, 120, 6783-6819.	47.7	554
10	A Soluble and Highly Conductive Ionomer for Highâ€Performance Hydroxide Exchange Membrane Fuel Cells. Angewandte Chemie - International Edition, 2009, 48, 6499-6502.	13.8	541
11	One-pot synthesis of a mesoporous NiCo2O4 nanoplatelet and graphene hybrid and its oxygen reduction and evolution activities as an efficient bi-functional electrocatalyst. Journal of Materials Chemistry A, 2013, 1, 4754.	10.3	491
12	A review of composite solid-state electrolytes for lithium batteries: fundamentals, key materials and advanced structures. Chemical Society Reviews, 2020, 49, 8790-8839.	38.1	461
13	The application of graphene and its composites in oxygen reduction electrocatalysis: a perspective and review of recent progress. Energy and Environmental Science, 2016, 9, 357-390.	30.8	456
14	Revisiting the Role of Polysulfides in Lithium–Sulfur Batteries. Advanced Materials, 2018, 30, e1705590.	21.0	456
15	Functionalized Graphene Oxide Nanocomposite Membrane for Low Humidity and High Temperature Proton Exchange Membrane Fuel Cells. Journal of Physical Chemistry C, 2011, 115, 20774-20781.	3.1	410
16	Recent progress and perspectives on bi-functional oxygen electrocatalysts for advanced rechargeable metal–air batteries. Journal of Materials Chemistry A, 2016, 4, 7107-7134.	10.3	408
17	Recent Progress in Electrically Rechargeable Zinc–Air Batteries. Advanced Materials, 2019, 31, e1805230.	21.0	398
18	Highly Active and Durable Core–Corona Structured Bifunctional Catalyst for Rechargeable Metal–Air Battery Application. Nano Letters, 2012, 12, 1946-1952.	9.1	392

#	Article	IF	CITATIONS
19	Interactions of multiple processes during CBM extraction: A critical review. International Journal of Coal Geology, 2011, 87, 175-189.	5.0	359
20	Highly Active Nitrogen-Doped Carbon Nanotubes for Oxygen Reduction Reaction in Fuel Cell Applications. Journal of Physical Chemistry C, 2009, 113, 21008-21013.	3.1	350
21	Nitrogen doped carbon nanotubes and their impact on the oxygen reduction reaction in fuel cells. Carbon, 2010, 48, 3057-3065.	10.3	347
22	Ultrathin, transparent, and flexible graphene films for supercapacitor application. Applied Physics Letters, 2010, 96, .	3.3	347
23	Multifunctional TiO ₂ –C/MnO ₂ Core–Double-Shell Nanowire Arrays as High-Performance 3D Electrodes for Lithium Ion Batteries. Nano Letters, 2013, 13, 5467-5473.	9.1	338
24	Structural and chemical synergistic encapsulation of polysulfides enables ultralong-life lithium–sulfur batteries. Energy and Environmental Science, 2016, 9, 2533-2538.	30.8	330
25	Recycling of mixed cathode lithiumâ€ion batteries for electric vehicles: Current status and future outlook. , 2020, 2, 6-43.		300
26	Nafion/Zeolite Nanocomposite Membrane by in Situ Crystallization for a Direct Methanol Fuel Cell. Chemistry of Materials, 2006, 18, 5669-5675.	6.7	276
27	A flexible solid-state electrolyte for wide-scale integration of rechargeable zinc–air batteries. Energy and Environmental Science, 2016, 9, 663-670.	30.8	275
28	Free-Standing Layer-By-Layer Hybrid Thin Film of Graphene-MnO ₂ Nanotube as Anode for Lithium Ion Batteries. Journal of Physical Chemistry Letters, 2011, 2, 1855-1860.	4.6	271
29	The Current State of Aqueous Zn-Based Rechargeable Batteries. ACS Energy Letters, 2020, 5, 1665-1675.	17.4	271
30	Developing high safety Li-metal anodes for future high-energy Li-metal batteries: strategies and perspectives. Chemical Society Reviews, 2020, 49, 5407-5445.	38.1	264
31	Biologically Inspired Highly Durable Iron Phthalocyanine Catalysts for Oxygen Reduction Reaction in Polymer Electrolyte Membrane Fuel Cells. Journal of the American Chemical Society, 2010, 132, 17056-17058.	13.7	259
32	Advanced Extremely Durable 3D Bifunctional Air Electrodes for Rechargeable Zincâ€Air Batteries. Advanced Energy Materials, 2014, 4, 1301389.	19.5	258
33	Flexible Highâ€Energy Polymerâ€Electrolyteâ€Based Rechargeable Zinc–Air Batteries. Advanced Materials, 2015, 27, 5617-5622.	21.0	258
34	Pomegranateâ€Inspired Design of Highly Active and Durable Bifunctional Electrocatalysts for Rechargeable Metal–Air Batteries. Angewandte Chemie - International Edition, 2016, 55, 4977-4982.	13.8	258
35	Graphene-Based Flexible Supercapacitors: Pulse-Electropolymerization of Polypyrrole on Free-Standing Graphene Films. Journal of Physical Chemistry C, 2011, 115, 17612-17620.	3.1	255
36	Stringed "tube on cube―nanohybrids as compact cathode matrix for high-loading and lean-electrolyte lithium–sulfur batteries. Energy and Environmental Science, 2018, 11, 2372-2381.	30.8	255

#	Article	IF	CITATIONS
37	Sulfonated Ordered Mesoporous Carbon as a Stable and Highly Active Protonic Acid Catalyst. Chemistry of Materials, 2007, 19, 2395-2397.	6.7	249
38	Interpenetrating Triphase Cobaltâ€Based Nanocomposites as Efficient Bifunctional Oxygen Electrocatalysts for Long‣asting Rechargeable Zn–Air Batteries. Advanced Energy Materials, 2018, 8, 1702900.	19.5	242
39	Hollow Multivoid Nanocuboids Derived from Ternary Ni–Co–Fe Prussian Blue Analog for Dualâ€Electrocatalysis of Oxygen and Hydrogen Evolution Reactions. Advanced Functional Materials, 2018, 28, 1802129.	14.9	242
40	Niâ€Rich/Coâ€Poor Layered Cathode for Automotive Liâ€lon Batteries: Promises and Challenges. Advanced Energy Materials, 2020, 10, 1903864.	19.5	242
41	Preferentially Engineering FeN ₄ Edge Sites onto Graphitic Nanosheets for Highly Active and Durable Oxygen Electrocatalysis in Rechargeable Zn–Air Batteries. Advanced Materials, 2020, 32, e2004900.	21.0	235
42	Self-Assembled NiO/Ni(OH) ₂ Nanoflakes as Active Material for High-Power and High-Energy Hybrid Rechargeable Battery. Nano Letters, 2016, 16, 1794-1802.	9.1	222
43	Development and Simulation of Sulfurâ€doped Graphene Supported Platinum with Exemplary Stability and Activity Towards Oxygen Reduction. Advanced Functional Materials, 2014, 24, 4325-4336.	14.9	214
44	Facile Hydrothermal Synthesis of VS ₂ /Graphene Nanocomposites with Superior High-Rate Capability as Lithium-Ion Battery Cathodes. ACS Applied Materials & Interfaces, 2015, 7, 13044-13052.	8.0	210
45	Conductive Nanocrystalline Niobium Carbide as Highâ€Efficiency Polysulfides Tamer for Lithiumâ€Sulfur Batteries. Advanced Functional Materials, 2018, 28, 1704865.	14.9	210
46	Polyaniline-derived Non-Precious Catalyst for the Polymer Electrolyte Fuel Cell Cathode. ECS Transactions, 2008, 16, 159-170.	0.5	209
47	Chemisorption of polysulfides through redox reactions with organic molecules for lithium–sulfur batteries. Nature Communications, 2018, 9, 705.	12.8	207
48	Controllable Urchinâ€Like NiCo ₂ S ₄ Microsphere Synergized with Sulfurâ€Doped Graphene as Bifunctional Catalyst for Superior Rechargeable Zn–Air Battery. Advanced Functional Materials, 2018, 28, 1706675.	14.9	203
49	Carbon Nanotube Film by Filtration as Cathode Catalyst Support for Proton-Exchange Membrane Fuel Cell. Langmuir, 2005, 21, 9386-9389.	3.5	196
50	Dual poroelastic response of a coal seam to CO2 injection. International Journal of Greenhouse Gas Control, 2010, 4, 668-678.	4.6	193
51	In Situ Polymer Graphenization Ingrained with Nanoporosity in a Nitrogenous Electrocatalyst Boosting the Performance of Polymerâ€Electrolyteâ€Membrane Fuel Cells. Advanced Materials, 2017, 29, 1604456.	21.0	192
52	Dynamic electrocatalyst with current-driven oxyhydroxide shell for rechargeable zinc-air battery. Nature Communications, 2020, 11, 1952.	12.8	185
53	Flexible Rechargeable Zincâ€Air Batteries through Morphological Emulation of Human Hair Array. Advanced Materials, 2016, 28, 6421-6428	21.0	183
54	Synergistic Bifunctional Catalyst Design based on Perovskite Oxide Nanoparticles and Intertwined Carbon Nanotubes for Rechargeable Zinc–Air Battery Applications. ACS Applied Materials & Interfaces, 2015, 7, 902-910.	8.0	176

#	Article	IF	CITATIONS
55	Two-Dimensional Phosphorus-Doped Carbon Nanosheets with Tunable Porosity for Oxygen Reactions in Zinc-Air Batteries. ACS Catalysis, 2018, 8, 2464-2472.	11.2	175
56	Oxygen Reduction on Graphene–Carbon Nanotube Composites Doped Sequentially with Nitrogen and Sulfur. ACS Catalysis, 2014, 4, 2734-2740.	11.2	174
57	Polysulfide Regulation by the Zwitterionic Barrier toward Durable Lithium–Sulfur Batteries. Journal of the American Chemical Society, 2020, 142, 3583-3592.	13.7	174
58	Manganese dioxide nanotube and nitrogen-doped carbon nanotube based composite bifunctional catalyst for rechargeable zinc-air battery. Electrochimica Acta, 2012, 69, 295-300.	5.2	173
59	Defect Engineering of Chalcogenâ€Tailored Oxygen Electrocatalysts for Rechargeable Quasiâ€Solidâ€State Zinc–Air Batteries. Advanced Materials, 2017, 29, 1702526.	21.0	171
60	Electrospun porous nanorod perovskite oxide/nitrogen-doped graphene composite as a bi-functional catalyst for metal air batteries. Nano Energy, 2014, 10, 192-200.	16.0	168
61	Co–N Decorated Hierarchically Porous Graphene Aerogel for Efficient Oxygen Reduction Reaction in Acid. ACS Applied Materials & Interfaces, 2016, 8, 6488-6495.	8.0	166
62	Nitrogen-Doped Carbon Nanotubes as Platinum Catalyst Supports for Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. Journal of Physical Chemistry C, 2010, 114, 21982-21988.	3.1	165
63	Sulfur Atoms Bridging Fewâ€Layered MoS ₂ with Sâ€Doped Graphene Enable Highly Robust Anode for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2015, 5, 1501106.	19.5	165
64	3D Porous Carbon Sheets with Multidirectional Ion Pathways for Fast and Durable Lithium–Sulfur Batteries. Advanced Energy Materials, 2018, 8, 1702381.	19.5	165
65	Sulfur covalently bonded graphene with large capacity and high rate for high-performance sodium-ion batteries anodes. Nano Energy, 2015, 15, 746-754.	16.0	164
66	Ptâ^'Ru Supported on Double-Walled Carbon Nanotubes as High-Performance Anode Catalysts for Direct Methanol Fuel Cells. Journal of Physical Chemistry B, 2006, 110, 15353-15358.	2.6	163
67	3-Dimensional porous N-doped graphene foam as a non-precious catalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 3343-3350.	10.3	163
68	Evidence of covalent synergy in silicon–sulfur–graphene yielding highly efficient and long-life lithium-ion batteries. Nature Communications, 2015, 6, 8597.	12.8	163
69	Constructing multifunctional solid electrolyte interface via in-situ polymerization for dendrite-free and low N/P ratio lithium metal batteries. Nature Communications, 2021, 12, 186.	12.8	163
70	Evolution of coal permeability from stress-controlled to displacement-controlled swelling conditions. Fuel, 2011, 90, 2987-2997.	6.4	156
71	Laminated Crossâ€Linked Nanocellulose/Graphene Oxide Electrolyte for Flexible Rechargeable Zinc–Air Batteries. Advanced Energy Materials, 2016, 6, 1600476.	19.5	155
72	Strings of Porous Carbon Polyhedrons as Selfâ€Standing Cathode Host for Highâ€Energyâ€Density Lithium–Sulfur Batteries. Angewandte Chemie - International Edition, 2017, 56, 6176-6180.	13.8	153

#	Article	IF	CITATIONS
73	Cationic and anionic redox in lithium-ion based batteries. Chemical Society Reviews, 2020, 49, 1688-1705.	38.1	152
74	Rational design of tailored porous carbon-based materials for CO ₂ capture. Journal of Materials Chemistry A, 2019, 7, 20985-21003.	10.3	150
75	Implementing an in-situ carbon network in Si/reduced graphene oxide for high performance lithium-ion battery anodes. Nano Energy, 2016, 19, 187-197.	16.0	148
76	An all-aqueous redox flow battery with unprecedented energy density. Energy and Environmental Science, 2018, 11, 2010-2015.	30.8	147
77	Modelling and optimization of enhanced coalbed methane recovery using CO2/N2 mixtures. Fuel, 2019, 253, 1114-1129.	6.4	146
78	3D Ordered Mesoporous Bifunctional Oxygen Catalyst for Electrically Rechargeable Zinc–Air Batteries. Small, 2016, 12, 2707-2714.	10.0	144
79	Hierarchical Defective Fe _{3â€} <i>_x</i> C@C Hollow Microsphere Enables Fast and Long‣asting Lithium–Sulfur Batteries. Advanced Functional Materials, 2020, 30, 2001165.	14.9	144
80	Engineering Oversaturated Feâ€N ₅ Multifunctional Catalytic Sites for Durable Lithiumâ€Sulfur Batteries. Angewandte Chemie - International Edition, 2021, 60, 26622-26629.	13.8	144
81	Effect of the effective stress coefficient and sorption-induced strain on the evolution of coal permeability: Experimental observations. International Journal of Greenhouse Gas Control, 2011, 5, 1284-1293.	4.6	143
82	Impact of transition from local swelling to macro swelling on the evolution of coal permeability. International Journal of Coal Geology, 2011, 88, 31-40.	5.0	143
83	Defect Engineering for Expediting Li–S Chemistry: Strategies, Mechanisms, and Perspectives. Advanced Energy Materials, 2021, 11, 2100332.	19.5	143
84	Highly Active Porous Carbon-Supported Nonprecious Metalâ^'N Electrocatalyst for Oxygen Reduction Reaction in PEM Fuel Cells. Journal of Physical Chemistry C, 2010, 114, 8048-8053.	3.1	141
85	Polyaniline nanofibre supported platinum nanoelectrocatalysts for direct methanol fuel cells. Nanotechnology, 2006, 17, 5254-5259.	2.6	137
86	Evaluation of stress-controlled coal swelling processes. International Journal of Coal Geology, 2010, 83, 446-455.	5.0	137
87	Fundamental Understanding and Material Challenges in Rechargeable Nonaqueous Li–O ₂ Batteries: Recent Progress and Perspective. Advanced Energy Materials, 2018, 8, 1800348.	19.5	137
88	Linking gas-sorption induced changes in coal permeability to directional strains through a modulus reduction ratio. International Journal of Coal Geology, 2010, 83, 21-30.	5.0	136
89	Influence of the effective stress coefficient and sorption-induced strain on the evolution of coal permeability: Model development and analysis. International Journal of Greenhouse Gas Control, 2012, 8, 101-110.	4.6	136
90	Paper-based all-solid-state flexible micro-supercapacitors with ultra-high rate and rapid frequency response capabilities. Journal of Materials Chemistry A, 2016, 4, 3754-3764.	10.3	136

#	Article	IF	CITATIONS
91	Ionothermal Synthesis of Oriented Zeolite AEL Films and Their Application as Corrosionâ€Resistant Coatings. Angewandte Chemie - International Edition, 2008, 47, 525-528.	13.8	133
92	Determination of Iron Active Sites in Pyrolyzed Iron-Based Catalysts for the Oxygen Reduction Reaction. ACS Catalysis, 2012, 2, 2761-2768.	11.2	133
93	Multidimensional Ordered Bifunctional Air Electrode Enables Flash Reactants Shuttling for Highâ€Energy Flexible Znâ€Air Batteries. Advanced Energy Materials, 2019, 9, 1900911.	19.5	133
94	Enhanced Reversible Sodiumâ€lon Intercalation by Synergistic Coupling of Few‣ayered MoS ₂ and Sâ€Doped Graphene. Advanced Functional Materials, 2017, 27, 1702562.	14.9	132
95	Nitrogen doped carbon nanotubes synthesized from aliphatic diamines for oxygen reduction reaction. Electrochimica Acta, 2011, 56, 1570-1575.	5.2	131
96	Coalbed methane emissions and drainage methods in underground mining for mining safety and environmental benefits: A review. Chemical Engineering Research and Design, 2019, 127, 103-124.	5.6	130
97	Nitrogen-doped hollow porous carbon polyhedrons embedded with highly dispersed Pt nanoparticles as a highly efficient and stable hydrogen evolution electrocatalyst. Nano Energy, 2017, 40, 88-94.	16.0	128
98	Is the rapid initial performance loss of Fe/N/C non precious metal catalysts due to micropore flooding?. Energy and Environmental Science, 2017, 10, 296-305.	30.8	127
99	Multigrain Platinum Nanowires Consisting of Oriented Nanoparticles Anchored on Sulfurâ€Doped Graphene as a Highly Active and Durable Oxygen Reduction Electrocatalyst. Advanced Materials, 2015, 27, 1229-1234.	21.0	126
100	Engineering the Conductive Network of Metal Oxideâ€Based Sulfur Cathode toward Efficient and Longevous Lithium–Sulfur Batteries. Advanced Energy Materials, 2020, 10, 2002076.	19.5	126
101	A dual poroelastic model for CO2-enhanced coalbed methane recovery. International Journal of Coal Geology, 2011, 86, 177-189.	5.0	124
102	Pore structure characterization of coal by synchrotron radiation nano-CT. Fuel, 2018, 215, 102-110.	6.4	124
103	Nitrogen-doped carbon nanotubes as air cathode catalysts in zinc-air battery. Electrochimica Acta, 2011, 56, 5080-5084.	5.2	123
104	"Ship in a Bottle―Design of Highly Efficient Bifunctional Electrocatalysts for Long-Lasting Rechargeable Zn–Air Batteries. ACS Nano, 2019, 13, 7062-7072.	14.6	120
105	Nanotechnology for environmentally sustainable electromobility. Nature Nanotechnology, 2016, 11, 1039-1051.	31.5	117
106	Engineered Si Electrode Nanoarchitecture: A Scalable Postfabrication Treatment for the Production of Next-Generation Li-lon Batteries. Nano Letters, 2014, 14, 277-283.	9.1	116
107	CNT-threaded N-doped porous carbon film as binder-free electrode for high-capacity supercapacitor and Li–S battery. Journal of Materials Chemistry A, 2017, 5, 9775-9784.	10.3	115
108	Effects of non-Darcy flow on the performance of coal seam gas wells. International Journal of Coal Geology, 2012, 93, 62-74.	5.0	114

#	Article	IF	CITATIONS
109	Dual phase Li4Ti5O12–TiO2 nanowire arrays as integrated anodes for high-rate lithium-ion batteries. Nano Energy, 2014, 9, 383-391.	16.0	114
110	The Dualâ€Play of 3D Conductive Scaffold Embedded with Co, N Codoped Hollow Polyhedra toward Highâ€Performance Li–S Full Cell. Advanced Energy Materials, 2018, 8, 1802561.	19.5	114
111	A MOFâ€Derivative Decorated Hierarchical Porous Host Enabling Ultrahigh Rates and Superior Longâ€Term Cycling of Dendriteâ€Free Zn Metal Anodes. Advanced Materials, 2022, 34, e2110047.	21.0	114
112	Sensitivity analysis on the microwave heating of coal: A coupled electromagnetic and heat transfer model. Applied Thermal Engineering, 2017, 126, 949-962.	6.0	112
113	Freeâ€Standing Functionalized Graphene Oxide Solid Electrolytes in Electrochemical Gas Sensors. Advanced Functional Materials, 2016, 26, 1729-1736.	14.9	110
114	d-Orbital steered active sites through ligand editing on heterometal imidazole frameworks for rechargeable zinc-air battery. Nature Communications, 2020, 11, 5858.	12.8	109
115	Design of Highly Active Perovskite Oxides for Oxygen Evolution Reaction by Combining Experimental and ab Initio Studies. ACS Catalysis, 2015, 5, 4337-4344.	11.2	107
116	Comparison of low-field NMR and microfocus X-ray computed tomography in fractal characterization of pores in artificial cores. Fuel, 2017, 210, 217-226.	6.4	106
117	Synthesis and Characterization of γ-Fe ₂ O ₃ for H ₂ S Removal at Low Temperature. Industrial & Engineering Chemistry Research, 2015, 54, 8469-8478.	3.7	105
118	Carbon-Coated Silicon Nanowires on Carbon Fabric as Self-Supported Electrodes for Flexible Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 9551-9558.	8.0	101
119	Shape-controlled octahedral cobalt disulfide nanoparticles supported on nitrogen and sulfur-doped graphene/carbon nanotube composites for oxygen reduction in acidic electrolyte. Journal of Materials Chemistry A, 2015, 3, 6340-6350.	10.3	100
120	Phase evolution of conversion-type electrode for lithium ion batteries. Nature Communications, 2019, 10, 2224.	12.8	99
121	Electrocatalytic activity of nitrogen doped carbon nanotubes with different morphologies for oxygen reduction reaction. Electrochimica Acta, 2010, 55, 4799-4804.	5.2	98
122	Gas Pickering Emulsion Templated Hollow Carbon for High Rate Performance Lithium Sulfur Batteries. Advanced Functional Materials, 2016, 26, 8408-8417.	14.9	98
123	High Performance Hydrogen Fuel Cells with Ultralow Pt Loading Carbon Nanotube Thin Film Catalystsâ€. Journal of Physical Chemistry C, 2007, 111, 17901-17904.	3.1	96
124	Molecular Sieving in a Nanoporousb-Oriented Pure-Silica-Zeolite MFI Monocrystal Film. Journal of the American Chemical Society, 2004, 126, 4122-4123.	13.7	95
125	Impact of CO2 injection and differential deformation on CO2 injectivity under in-situ stress conditions. International Journal of Coal Geology, 2010, 81, 97-108.	5.0	93
126	Perovskite–Nitrogenâ€Doped Carbon Nanotube Composite as Bifunctional Catalysts for Rechargeable Lithium–Air Batteries. ChemSusChem, 2015, 8, 1058-1065.	6.8	92

#	Article	IF	CITATIONS
127	Bacterial nanocellulose/Nafion composite membranes for low temperature polymer electrolyte fuel cells. Journal of Power Sources, 2015, 273, 697-706.	7.8	92
128	Multiscale modeling of lithium-ion battery electrodes based on nano-scale X-ray computed tomography. Journal of Power Sources, 2016, 307, 496-509.	7.8	92
129	Flexible, three-dimensional ordered macroporous TiO2 electrode with enhanced electrode–electrolyte interaction in high-power Li-ion batteries. Nano Energy, 2016, 24, 72-77.	16.0	91
130	Nitrogen-doped carbon nanocones encapsulating with nickel–cobalt mixed phosphides for enhanced hydrogen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 16568-16572.	10.3	90
131	Highly durable and active non-precious air cathode catalyst for zinc air battery. Journal of Power Sources, 2011, 196, 3673-3677.	7.8	88
132	Tuning Shell Numbers of Transition Metal Oxide Hollow Microspheres toward Durable and Superior Lithium Storage. ACS Nano, 2017, 11, 11521-11530.	14.6	88
133	Titanium nitride–carbon nanotube core–shell composites as effective electrocatalyst supports for low temperature fuel cells. Journal of Materials Chemistry, 2012, 22, 3727.	6.7	87
134	Highly active Co-doped LaMnO 3 perovskite oxide and N-doped carbon nanotube hybrid bi-functional catalyst for rechargeable zinc–air batteries. Electrochemistry Communications, 2015, 60, 38-41.	4.7	86
135	Linker-Compensated Metal–Organic Framework with Electron Delocalized Metal Sites for Bifunctional Oxygen Electrocatalysis. Journal of the American Chemical Society, 2022, 144, 4783-4791.	13.7	86
136	Quaternized Graphene Oxide Nanocomposites as Fast Hydroxide Conductors. ACS Nano, 2015, 9, 2028-2037.	14.6	85
137	Zn-free MOFs like MIL-53(Al) and MIL-125(Ti) for the preparation of defect-rich, ultrafine ZnO nanosheets with high photocatalytic performance. Applied Catalysis B: Environmental, 2019, 244, 719-731.	20.2	85
138	Recent Progress on Highâ€Performance Cathode Materials for Zincâ€lon Batteries. Small Structures, 2021, 2, 2000064.	12.0	85
139	Oxygen Reduction Reaction Using MnO ₂ Nanotubes/Nitrogen-Doped Exfoliated Graphene Hybrid Catalyst for Li-O ₂ Battery Applications. Journal of the Electrochemical Society, 2013, 160, A344-A350.	2.9	84
140	Defectâ€Enriched Nitrogen Doped–Graphene Quantum Dots Engineered NiCo ₂ S ₄ Nanoarray as Highâ€Efficiency Bifunctional Catalyst for Flexible Znâ€Air Battery. Small, 2019, 15, e1903610.	10.0	84
141	Complex evolution of coal permeability during CO2 injection under variable temperatures. International Journal of Greenhouse Gas Control, 2012, 9, 281-293.	4.6	82
142	Layerâ€Based Heterostructured Cathodes for Lithiumâ€Ion and Sodiumâ€Ion Batteries. Advanced Functional Materials, 2019, 29, 1808522.	14.9	82
143	High durable PEK-based anion exchange membrane for elevated temperature alkaline fuel cells. Journal of Membrane Science, 2012, 394-395, 193-201.	8.2	81
144	High-performance flexible electrode based on electrodeposition of polypyrrole/MnO2 on carbon cloth for supercapacitors. Journal of Power Sources, 2016, 326, 357-364.	7.8	81

#	Article	IF	CITATIONS
145	Functionalized titania nanotube composite membranes for high temperature proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2011, 36, 6073-6081.	7.1	80
146	Superior performance of anion exchange membrane water electrolyzer: Ensemble of producing oxygen vacancies and controlling mass transfer resistance. Applied Catalysis B: Environmental, 2020, 278, 119276.	20.2	80
147	Platinum nanopaticles supported on stacked-cup carbon nanofibers as electrocatalysts for proton exchange membrane fuel cell. Carbon, 2010, 48, 995-1003.	10.3	79
148	Activated and nitrogen-doped exfoliated graphene as air electrodes for metal–air battery applications. Journal of Materials Chemistry A, 2013, 1, 2639.	10.3	79
149	A coupled electromagnetic irradiation, heat and mass transfer model for microwave heating and its numerical simulation on coal. Fuel Processing Technology, 2018, 177, 237-245.	7.2	79
150	Interaction mechanism between a functionalized protective layer and dissolved polysulfide for extended cycle life of lithium sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 9461-9467.	10.3	78
151	Synthesis of Template-Free Zeolite Nanocrystals by Reverse Microemulsionâ `Microwave Method. Chemistry of Materials, 2005, 17, 2262-2266.	6.7	77
152	Morphology and composition controlled platinum–cobalt alloy nanowires prepared by electrospinning as oxygen reduction catalyst. Nano Energy, 2014, 10, 135-143.	16.0	76
153	Hierarchical Porous Double-Shelled Electrocatalyst with Tailored Lattice Alkalinity toward Bifunctional Oxygen Reactions for Metal–Air Batteries. ACS Energy Letters, 2017, 2, 2706-2712.	17.4	74
154	Electrochemical Synthesis of Perfluorinated Ion Doped Conducting Polyaniline Films Consisting of Helical Fibers and their Reversible Switching between Superhydrophobicity and Superhydrophilicity. Macromolecular Rapid Communications, 2008, 29, 832-838.	3.9	72
155	A "trimurti" heterostructured hybrid with an intimate CoO/Co _x P interface as a robust bifunctional air electrode for rechargeable Zn–air batteries. Journal of Materials Chemistry A, 2020, 8, 9177-9184.	10.3	72
156	Hydrogen sulfide adsorption on nano-sized zinc oxide/reduced graphite oxide composite at ambient condition. Applied Surface Science, 2013, 276, 646-652.	6.1	71
157	Recent progress in nonâ€precious metal catalysts for PEM fuel cell applications. Canadian Journal of Chemical Engineering, 2013, 91, 1881-1895.	1.7	71
158	Iron- and Nitrogen-Functionalized Graphene Nanosheet and Nanoshell Composites as a Highly Active Electrocatalyst for Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2013, 117, 26501-26508.	3.1	71
159	Morphologically controlled Co3O4 nanodisks as practical bi-functional catalyst for rechargeable zinc–air battery applications. Electrochemistry Communications, 2014, 43, 109-112.	4.7	71
160	Sn/SnO2 embedded in mesoporous carbon nanocomposites as negative electrode for lithium ion batteries. Electrochimica Acta, 2013, 87, 844-852.	5.2	70
161	Characterisation of mechanics and flow fields around in-seam methane gas drainage borehole for preventing ventilation air leakage: A case study. International Journal of Coal Geology, 2016, 162, 123-138.	5.0	70
162	Impact of creep on the evolution of coal permeability and gas drainage performance. Journal of Natural Gas Science and Engineering, 2016, 33, 469-482.	4.4	69

#	Article	IF	CITATIONS
163	Controlled Growth of Platinum Nanowire Arrays on Sulfur Doped Graphene as High Performance Electrocatalyst. Scientific Reports, 2013, 3, 2431.	3.3	68
164	Facile Synthesis and Evaluation of Nanofibrous Iron–Carbon Based Non-Precious Oxygen Reduction Reaction Catalysts for Li–O ₂ Battery Applications. Journal of Physical Chemistry C, 2012, 116, 9427-9432.	3.1	67
165	Applying functionalized carbon nanotubes to enhance electrochemical performances of tin oxide composite electrodes for Li-ion battery. Journal of Power Sources, 2012, 212, 66-72.	7.8	67
166	Design of a Sorbent to Enhance Reactive Adsorption of Hydrogen Sulfide. ACS Applied Materials & Interfaces, 2014, 6, 21167-21177.	8.0	67
167	All-in-One Graphene Based Composite Fiber: Toward Wearable Supercapacitor. ACS Applied Materials & Interfaces, 2017, 9, 39576-39583.	8.0	67
168	High-performance anion exchange membrane alkaline seawater electrolysis. Journal of Materials Chemistry A, 2021, 9, 9586-9592.	10.3	67
169	TEM Investigation of Formation Mechanism of Monocrystal-Thickb-Oriented Pure Silica Zeolite MFI Film. Journal of the American Chemical Society, 2004, 126, 10732-10737.	13.7	66
170	Hierarchical Li4Ti5O12-TiO2 composite microsphere consisting of nanocrystals for high power Li-ion batteries. Electrochimica Acta, 2013, 108, 104-111.	5.2	66
171	Graphene wrapped silicon nanocomposites for enhanced electrochemical performance in lithium ion batteries. Electrochimica Acta, 2014, 130, 127-134.	5.2	66
172	Electrospun Iron–Polyaniline–Polyacrylonitrile Derived Nanofibers as Non–Precious Oxygen Reduction Reaction Catalysts for PEM Fuel Cells. Electrochimica Acta, 2014, 139, 111-116.	5.2	66
173	Impact of coal matrix strains on the evolution of permeability. Fuel, 2017, 189, 270-283.	6.4	66
174	Reassessment of coal permeability evolution using steady-state flow methods: The role of flow regime transition. International Journal of Coal Geology, 2019, 211, 103210.	5.0	66
175	Efficient Method of Designing Stable Layered Cathode Material for Sodium Ion Batteries Using Aluminum Doping. Journal of Physical Chemistry Letters, 2017, 8, 5021-5030.	4.6	65
176	Porous organic polymers for Li-chemistry-based batteries: functionalities and characterization studies. Chemical Society Reviews, 2022, 51, 2917-2938.	38.1	65
177	Bifunctionally active and durable hierarchically porous transition metal-based hybrid electrocatalyst for rechargeable metal-air batteries. Applied Catalysis B: Environmental, 2018, 239, 677-687.	20.2	64
178	Effects of transition metal precursors (Co, Fe, Cu, Mn, or Ni) on pyrolyzed carbon supported metal-aminopyrine electrocatalysts for oxygen reduction reaction. RSC Advances, 2015, 5, 6195-6206.	3.6	63
179	Sulfur Nanogranular Film-Coated Three-Dimensional Graphene Sponge-Based High Power Lithium Sulfur Battery. ACS Applied Materials & amp; Interfaces, 2016, 8, 1984-1991.	8.0	63
180	Hierarchical Microâ€Nanoclusters of Bimetallic Layered Hydroxide Polyhedrons as Advanced Sulfur Reservoir for Highâ€Performance Lithium–Sulfur Batteries. Advanced Science, 2021, 8, 2003400.	11.2	63

#	Article	IF	CITATIONS
181	Hierarchically Porous Ti ₃ C ₂ MXene with Tunable Active Edges and Unsaturated Coordination Bonds for Superior Lithium–Sulfur Batteries. ACS Nano, 2021, 15, 19457-19467.	14.6	63
182	Laboratory Study of Gas Permeability and Cleat Compressibility for CBM/ECBM in Chinese Coals. Energy Exploration and Exploitation, 2012, 30, 451-476.	2.3	60
183	Nitrogen and Sulfur Co-doped Mesoporous Carbon Materials as Highly Efficient Electrocatalysts for Oxygen Reduction Reaction. Electrochimica Acta, 2014, 145, 259-269.	5.2	59
184	Highly Oriented Graphene Sponge Electrode for Ultra High Energy Density Lithium Ion Hybrid Capacitors. ACS Applied Materials & Interfaces, 2016, 8, 25297-25305.	8.0	59
185	Cubic spinel cobalt oxide/multi-walled carbon nanotube composites as an efficient bifunctionalelectrocatalyst for oxygen reaction. Electrochemistry Communications, 2013, 34, 125-129.	4.7	58
186	Optimization of sulfur-doped graphene as an emerging platinum nanowires support for oxygen reduction reaction. Nano Energy, 2016, 19, 27-38.	16.0	58
187	Green Solid Electrolyte with Cofunctionalized Nanocellulose/Graphene Oxide Interpenetrating Network for Electrochemical Gas Sensors. Small Methods, 2017, 1, 1700237.	8.6	58
188	Continuous fabrication of a MnS/Co nanofibrous air electrode for wide integration of rechargeable zinc–air batteries. Nanoscale, 2017, 9, 15865-15872.	5.6	58
189	Highly active Pt–Ru nanowire network catalysts for the methanol oxidation reaction. Catalysis Communications, 2012, 18, 51-54.	3.3	57
190	Bi-Functional N-Doped CNT/Graphene Composite as Highly Active and Durable Electrocatalyst for Metal Air Battery Applications. Journal of the Electrochemical Society, 2013, 160, A2244-A2250.	2.9	57
191	Highly Active Graphene Nanosheets Prepared via Extremely Rapid Heating as Efficient Zinc-Air Battery Electrode Material. Journal of the Electrochemical Society, 2013, 160, F910-F915.	2.9	57
192	Highly Active and Durable Nanocrystalâ€Decorated Bifunctional Electrocatalyst for Rechargeable Zinc–Air Batteries. ChemSusChem, 2015, 8, 3129-3138.	6.8	57
193	Web-like 3D Architecture of Pt Nanowires and Sulfur-Doped Carbon Nanotube with Superior Electrocatalytic Performance. ACS Sustainable Chemistry and Engineering, 2018, 6, 93-98.	6.7	57
194	Composites of MnO2 nanocrystals and partially graphitized hierarchically porous carbon spheres with improved rate capability for high-performance supercapacitors. Carbon, 2015, 93, 258-265.	10.3	56
195	The durability of carbon supported Pt nanowire as novel cathode catalyst for a 1.5 kW PEMFC stack. Applied Catalysis B: Environmental, 2015, 162, 133-140.	20.2	56
196	Characterisation of creep in coal and its impact on permeability: An experimental study. International Journal of Coal Geology, 2017, 173, 200-211.	5.0	55
197	Li ₂ S―or Sâ€Based Lithiumâ€ŀon Batteries. Advanced Materials, 2018, 30, e1801190.	21.0	54
198	Fast Charging Li-Ion Batteries for a New Era of Electric Vehicles. Cell Reports Physical Science, 2020, 1, 100212.	5.6	54

#	Article	IF	CITATIONS
199	"Sauna―Activation toward Intrinsic Lattice Deficiency in Carbon Nanotube Microspheres for Highâ€Energy and Long‣asting Lithium–Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2100497.	19.5	53
200	Highly Durable Graphene Nanosheet Supported Iron Catalyst for Oxygen Reduction Reaction in PEM Fuel Cells. Journal of the Electrochemical Society, 2011, 159, B86-B89.	2.9	52
201	Roles of coal heterogeneity on evolution of coal permeability under unconstrained boundary conditions. Journal of Natural Gas Science and Engineering, 2013, 15, 38-52.	4.4	52
202	Theoretical insight into highly durable iron phthalocyanine derived non-precious catalysts for oxygen reduction reactions. Journal of Materials Chemistry A, 2014, 2, 19707-19716.	10.3	52
203	High performance porous polybenzimidazole membrane for alkaline fuel cells. International Journal of Hydrogen Energy, 2014, 39, 18405-18415.	7.1	52
204	Characterization of coal fines generation: A micro-scale investigation. Journal of Natural Gas Science and Engineering, 2015, 27, 862-875.	4.4	52
205	Calendar Aging and Gas Generation in Commercial Graphite/NMC-LMO Lithium-Ion Pouch Cell. Journal of the Electrochemical Society, 2017, 164, A3469-A3483.	2.9	52
206	Emerging Trends in Sustainable CO ₂ â€Management Materials. Advanced Materials, 2022, 34, e2201547.	21.0	52
207	Design Criteria for Siliconâ€Based Anode Binders in Half and Full Cells. Advanced Energy Materials, 2022, 12, .	19.5	52
208	Selective Dibenzothiophene Adsorption on Graphene Prepared Using Different Methods. Industrial & Engineering Chemistry Research, 2012, 51, 10259-10264.	3.7	51
209	Building sponge-like robust architectures of CNT–graphene–Si composites with enhanced rate and cycling performance for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 3962-3967.	10.3	51
210	A solution-phase synthesis method to highly active Pt-Co/C electrocatalysts for proton exchange membrane fuel cell. Journal of Power Sources, 2010, 195, 2534-2540.	7.8	50
211	Evolution of Coal Petrophysical Properties under Microwave Irradiation Stimulation for Different Water Saturation Conditions. Energy & Fuels, 2017, 31, 8852-8864.	5.1	49
212	Experimental investigation on the impact of coal fines generation and migration on coal permeability. Journal of Petroleum Science and Engineering, 2017, 159, 257-266.	4.2	49
213	Selfâ€Supported Cobalt Nickel Nitride Nanowires Electrode for Overall Electrochemical Water Splitting. Energy Technology, 2017, 5, 1908-1911.	3.8	47
214	Characterizations of macroscopic deformation and particle crushing of crushed gangue particle material under cyclic loading: In solid backfilling coal mining. Powder Technology, 2019, 343, 159-169.	4.2	47
215	Zwitterionic impetus on single lithium-ion conduction in solid polymer electrolyte for all-solid-state lithium-ion batteries. Chemical Engineering Journal, 2020, 384, 123237.	12.7	47
216	Constructing Safe and Durable Highâ€Voltage P2 Layered Cathodes for Sodium Ion Batteries Enabled by Molecular Layer Deposition of Alucone. Advanced Functional Materials, 2020, 30, 1910251.	14.9	47

#	Article	IF	CITATIONS
217	Tin-oxide-coated single-walled carbon nanotube bundles supporting platinum electrocatalysts for direct ethanol fuel cells. Nanotechnology, 2010, 21, 165705.	2.6	45
218	Cyanamide derived thin film on carbon nanotubes as metal free oxygen reduction reaction electrocatalyst. Electrochimica Acta, 2012, 59, 8-13.	5.2	45
219	Subeutectic Growth of Single-Crystal Silicon Nanowires Grown on and Wrapped with Graphene Nanosheets: High-Performance Anode Material for Lithium-Ion Battery. ACS Applied Materials & Interfaces, 2014, 6, 13757-13764.	8.0	45
220	Enhanced adsorption of hydrogen sulfide and regeneration ability on the composites of zinc oxide with reduced graphite oxide. Chemical Engineering Journal, 2014, 253, 264-273.	12.7	45
221	Compact high volumetric and areal capacity lithium sulfur batteries through rock salt induced nano-architectured sulfur hosts. Journal of Materials Chemistry A, 2017, 5, 21435-21441.	10.3	45
222	Heat-Treated Nonprecious Catalyst Using Fe and Nitrogen-Rich 2,3,7,8-Tetra(pyridin-2-yl)pyrazino[2,3- <i>g</i>]quinoxaline Coordinated Complex for Oxygen Reduction Reaction in PEM Fuel Cells. Journal of Physical Chemistry C, 2011, 115, 18856-18862.	3.1	44
223	Efficient and Durable Anion Exchange Membrane Water Electrolysis for a Commercially Available Electrolyzer Stack using Alkaline Electrolyte. ACS Energy Letters, 2022, 7, 2576-2583.	17.4	44
224	Molecular Trapping Strategy To Stabilize Subnanometric Pt Clusters for Highly Active Electrocatalysis. ACS Catalysis, 2019, 9, 11603-11613.	11.2	43
225	A 3D ordered hierarchically porous non-carbon electrode for highly effective and efficient capacitive deionization. Journal of Materials Chemistry A, 2019, 7, 15633-15639.	10.3	43
226	A Combined Ordered Macroâ€Mesoporous Architecture Design and Surface Engineering Strategy for Highâ€Performance Sulfur Immobilizer in Lithium–Sulfur Batteries. Small, 2020, 16, e2001089.	10.0	43
227	Effects of coal damage on permeability and gas drainage performance. International Journal of Mining Science and Technology, 2017, 27, 783-786.	10.3	42
228	Simultaneous formation of nitrogen and sulfur-doped transition metal catalysts for oxygen reduction reaction through pyrolyzing carbon-supported copper phthalocyanine tetrasulfonic acid tetrasodium salt. Journal of Power Sources, 2014, 266, 88-98.	7.8	41
229	Engineered architecture of nitrogenous graphene encapsulating porous carbon with nano-channel reactors enhancing the PEM fuel cell performance. Nano Energy, 2017, 42, 249-256.	16.0	41
230	Dynamics of a Blended Lithium-Ion Battery Electrode During Galvanostatic Intermittent Titration Technique. Electrochimica Acta, 2016, 222, 1741-1750.	5.2	40
231	Experimental study of coal matrix-cleat interaction under constant volume boundary condition. International Journal of Coal Geology, 2017, 181, 124-132.	5.0	40
232	Phosphorus and Nitrogen Centers in Doped Graphene and Carbon Nanotubes Analyzed through Solid-State NMR. Journal of Physical Chemistry C, 2018, 122, 6593-6601.	3.1	40
233	Boosting the Heat Dissipation Performance of Graphene/Polyimide Flexible Carbon Film via Enhanced Throughâ€Plane Conductivity of 3D Hybridized Structure. Small, 2020, 16, e1903315.	10.0	40
234	Carbon-supported Pt nanowire as novel cathode catalysts for proton exchange membrane fuel cells. Journal of Power Sources, 2014, 262, 488-493.	7.8	39

#	Article	IF	CITATIONS
235	Effects of microstructure on water imbibition in sandstones using Xâ€ray computed tomography and neutron radiography. Journal of Geophysical Research: Solid Earth, 2017, 122, 4963-4981.	3.4	39
236	A high performance wastewater-fed flow-photocatalytic fuel cell. Journal of Power Sources, 2019, 425, 69-75.	7.8	39
237	Synergistic Binary Fe–Co Nanocluster Supported on Defective Tungsten Oxide as Efficient Oxygen Reduction Electrocatalyst in Zincâ€Air Battery. Advanced Science, 2022, 9, e2104237.	11.2	39
238	Correlation between theoretical descriptor and catalytic oxygen reduction activity of graphene supported palladium and palladium alloy electrocatalysts. Journal of Power Sources, 2015, 300, 1-9.	7.8	38
239	Theoretical and experimental studies of highly active graphene nanosheets to determine catalytic nitrogen sites responsible for the oxygen reduction reaction in alkaline media. Journal of Materials Chemistry A, 2016, 4, 976-990.	10.3	38
240	Highly Nitrogen-Doped Three-Dimensional Carbon Fibers Network with Superior Sodium Storage Capacity. ACS Applied Materials & Interfaces, 2017, 9, 28604-28611.	8.0	38
241	Insights into Multiphase Reactions during Self-Discharge of Li-S Batteries. Chemistry of Materials, 2020, 32, 4518-4526.	6.7	38
242	High Performance Porous Anode Based on Template-Free Synthesis of Co3O4 Nanowires for Lithium-Ion Batteries. Electrochimica Acta, 2014, 139, 145-151.	5.2	37
243	Nano-particle size effect on the performance of Li4Ti5O12 spinel. Electrochimica Acta, 2016, 196, 33-40.	5.2	37
244	Strings of Porous Carbon Polyhedrons as Selfâ€Standing Cathode Host for Highâ€Energyâ€Density Lithium–Sulfur Batteries. Angewandte Chemie, 2017, 129, 6272-6276.	2.0	37
245	Eutectic Etching toward Inâ€Plane Porosity Manipulation of Clâ€Terminated MXene for Highâ€Performance Dualâ€Ion Battery Anode. Advanced Energy Materials, 2022, 12, 2102493.	19.5	37
246	Dimensional analysis and prediction of coal fines generation under two-phase flow conditions. Fuel, 2017, 194, 460-479.	6.4	36
247	Particle-Crushing Characteristics and Acoustic-Emission Patterns of Crushing Gangue Backfilling Material under Cyclic Loading. Minerals (Basel, Switzerland), 2018, 8, 244.	2.0	36
248	Advanced Electrode Materials Comprising of Structureâ€Engineered Quantum Dots for Highâ€Performance Asymmetric Microâ€Supercapacitors. Advanced Energy Materials, 2020, 10, 1903724.	19.5	36
249	Mechanistic analysis of highly active nitrogen-doped carbon nanotubes for the oxygen reduction reaction. Journal of Power Sources, 2012, 205, 215-221.	7.8	35
250	Role of multi-seam interaction on gas drainage engineering design for mining safety and environmental benefits: Linking coal damage to permeability variation. Chemical Engineering Research and Design, 2018, 114, 310-322.	5.6	35
251	Application of Artificial Intelligence to State-of-Charge and State-of-Health Estimation of Calendar-Aged Lithium-Ion Pouch Cells. Journal of the Electrochemical Society, 2019, 166, A605-A615.	2.9	35
252	Impact of Various Parameters on the Production of Coalbed Methane. SPE Journal, 2013, 18, 910-923.	3.1	34

#	Article	IF	CITATIONS
253	Effects of Diffusive Charge Transfer and Salt Concentration Gradient in Electrolyte on Li-ion Battery Energy and Power Densities. Electrochimica Acta, 2014, 125, 117-123.	5.2	34
254	Regulating the Li ⁺ â€Solvation Structure of Ester Electrolyte for Highâ€Energyâ€Density Lithium Metal Batteries. Small, 2020, 16, e2004688.	10.0	34
255	Representative volume element model of lithium-ion battery electrodes based on X-ray nano-tomography. Journal of Applied Electrochemistry, 2017, 47, 281-293.	2.9	33
256	Simulation of microwave's heating effect on coal seam permeability enhancement. International Journal of Mining Science and Technology, 2019, 29, 785-789.	10.3	33
257	Time-dependent coal permeability: Impact of gas transport from coal cleats to matrices. Journal of Natural Gas Science and Engineering, 2021, 88, 103806.	4.4	33
258	A highly sensitive breathable fuel cell gas sensor with nanocomposite solid electrolyte. InformaÄnÃ- MateriA¡ly, 2019, 1, 234-241.	17.3	32
259	3D Nanowire Arrayed Cu Current Collector toward Homogeneous Alloying Anode Deposition for Enhanced Sodium Storage. Advanced Energy Materials, 2019, 9, 1900673.	19.5	32
260	Free nitrous acid pre-treatment enhances anaerobic digestion of waste activated sludge and rheological properties of digested sludge: A pilot-scale study. Water Research, 2020, 172, 115515.	11.3	32
261	Design Zwitterionic Amorphous Conjugated Microâ€∤Mesoporous Polymer Assembled Nanotentacle as Highly Efficient Sulfur Electrocatalyst for Lithium‧ulfur Batteries. Advanced Energy Materials, 2021, 11, 2101926.	19.5	32
262	Pd-decorated three-dimensional nanoporous Au/Ni foam composite electrodes for H ₂ O ₂ reduction. Journal of Materials Chemistry A, 2014, 2, 16474-16479.	10.3	31
263	Molecular Functionalization of Graphene Oxide for Next-Generation Wearable Electronics. ACS Applied Materials & Interfaces, 2016, 8, 25428-25437.	8.0	31
264	Advances in fibre optic based geotechnical monitoring systems for underground excavations. International Journal of Mining Science and Technology, 2019, 29, 229-238.	10.3	31
265	Anisotropic coal permeability estimation by determining cleat compressibility using mercury intrusion porosimetry and stress–strain measurements. International Journal of Coal Geology, 2019, 205, 75-86.	5.0	31
266	<i>In Situ</i> Localized Polysulfide Injector for the Activation of Bulk Lithium Sulfide. Journal of the American Chemical Society, 2021, 143, 2185-2189.	13.7	31
267	Highly Durable Platinum-Cobalt Nanowires by Microwave Irradiation as Oxygen Reduction Catalyst for PEM Fuel Cell. Electrochemical and Solid-State Letters, 2012, 15, B83.	2.2	30
268	Effect of electrode physical and chemical properties on lithium-ion battery performance. International Journal of Energy Research, 2013, 37, 1723-1736.	4.5	30
269	Multi-Particle Model for a Commercial Blended Lithium-Ion Electrode. Journal of the Electrochemical Society, 2016, 163, A458-A469.	2.9	30
270	Hierarchical Core–Shell Nickel Cobaltite Chestnutâ€like Structures as Bifunctional Electrocatalyst for Rechargeable Metal–Air Batteries. ChemSusChem, 2018, 11, 406-414.	6.8	30

#	Article	IF	CITATIONS
271	Three-Dimensional Modeling of All-Solid-State Lithium-Ion Batteries Using Synchrotron Transmission X-ray Microscopy Tomography. Journal of the Electrochemical Society, 2020, 167, 100558.	2.9	30
272	Coal permeability models for enhancing performance of clean gas drainage: A review. Journal of Petroleum Science and Engineering, 2021, 199, 108283.	4.2	30
273	Range-extending Zinc-air battery for electric vehicle. AIMS Energy, 2018, 6, 121-145.	1.9	30
274	Thin Film Polyamide Nanocomposite Membrane Decorated by Polyphenol-Assisted Ti ₃ C ₂ T _{<i>x</i>} MXene Nanosheets for Reverse Osmosis. ACS Applied Materials & Interfaces, 2022, 14, 1838-1849.	8.0	30
275	Effect of active zinc oxide dispersion on reduced graphite oxide for hydrogen sulfide adsorption at mid-temperature. Applied Surface Science, 2013, 280, 360-365.	6.1	28
276	Tailoring the chemistry of blend copolymers boosting the electrochemical performance of Si-based anodes for lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 24159-24167.	10.3	28
277	Predicting Erosion-Induced Water Inrush of Karst Collapse Pillars Using Inverse Velocity Theory. Geofluids, 2018, 2018, 1-18.	0.7	27
278	Unravelling the influences of sewer-dosed iron salts on activated sludge properties with implications on settleability, dewaterability and sludge rheology. Water Research, 2019, 167, 115089.	11.3	27
279	Supramolecular preorganization effect to access single cobalt sites for enhanced photocatalytic hydrogen evolution and nitrogen fixation. Chemical Engineering Journal, 2020, 394, 124822.	12.7	27
280	Tin oxide - mesoporous carbon composites as platinum catalyst supports for ethanol oxidation and oxygen reduction. Electrochimica Acta, 2014, 121, 421-427.	5.2	26
281	Self-Supported Single Crystalline H ₂ Ti ₈ O ₁₇ Nanoarrays as Integrated Three-Dimensional Anodes for Lithium-Ion Microbatteries. ACS Applied Materials & Interfaces, 2014, 6, 568-574.	8.0	26
282	Effects of structural design on the performance of electrical double layer capacitors. Applied Energy, 2015, 138, 631-639.	10.1	26
283	Multigrain electrospun nickel doped lithium titanate nanofibers with high power lithium ion storage. Journal of Materials Chemistry A, 2016, 4, 12638-12647.	10.3	25
284	Effects of coal properties on ventilation air leakage into methane gas drainage boreholes: Application of the orthogonal design. Journal of Natural Gas Science and Engineering, 2017, 45, 88-95.	4.4	25
285	Effects of Water Soaked Height on the Deformation and Crushing Characteristics of Loose Gangue Backfill Material in Solid Backfill Coal Mining. Processes, 2018, 6, 64.	2.8	25
286	Understanding competing effect between sorption swelling and mechanical compression on coal matrix deformation and its permeability. International Journal of Rock Mechanics and Minings Sciences, 2021, 138, 104639.	5.8	25
287	Selfâ€Assembly of Spinel Nanocrystals into Mesoporous Spheres as Bifunctionally Active Oxygen Reduction and Evolution Electrocatalysts. ChemSusChem, 2017, 10, 2258-2266.	6.8	24
288	Highly durable 3D conductive matrixed silicon anode for lithium-ion batteries. Journal of Power Sources, 2018, 407, 84-91.	7.8	24

#	Article	lF	CITATIONS
289	Analysis on the multi-phase flow characterization in cross-measure borehole during coal hydraulic slotting. International Journal of Mining Science and Technology, 2018, 28, 701-705.	10.3	24
290	New Interpretation of the Performance of Nickel-Based Air Electrodes for Rechargeable Zinc–Air Batteries. Journal of Physical Chemistry C, 2018, 122, 20153-20166.	3.1	24
291	The influence of closed pores on the gas transport and its application in coal mine gas extraction. Fuel, 2019, 254, 115605.	6.4	24
292	Design of ultralong single-crystal nanowire-based bifunctional electrodes for efficient oxygen and hydrogen evolution in a mild alkaline electrolyte. Journal of Materials Chemistry A, 2017, 5, 10895-10901.	10.3	23
293	Durability and Activity Study of Single-Walled, Double-Walled and Multi-Walled Carbon Nanotubes Supported Pt Catalyst for PEMFCs. ECS Transactions, 2007, 11, 1289-1299.	0.5	22
294	Advanced Biowasteâ€Based Flexible Photocatalytic Fuel Cell as a Green Wearable Power Generator. Advanced Materials Technologies, 2017, 2, 1600191.	5.8	22
295	Water balancing. Nature Energy, 2020, 5, 12-13.	39.5	22
296	Promoting Ge Alloying Reaction via Heterostructure Engineering for High Efficient and Ultraâ€Stable Sodiumâ€Ion Storage. Advanced Science, 2020, 7, 2002358.	11.2	22
297	Twoâ€Dimensional NiO@Câ€N Nanosheets Composite as a Superior Lowâ€Temperature Anode Material for Advanced Lithiumâ€∤Sodiumâ€Ion Batteries. ChemElectroChem, 2020, 7, 3616-3622.	3.4	22
298	Engineering Oversaturated Feâ€N ₅ Multifunctional Catalytic Sites for Durable Lithiumâ€ S ulfur Batteries. Angewandte Chemie, 2021, 133, 26826-26833.	2.0	22
299	Finelyâ€Dispersed Ni ₂ Co Nanoalloys on Flowerâ€Like Graphene Microassembly Empowering a Bi ervice Matrix for Superior Lithium–Sulfur Electrochemistry. Advanced Functional Materials, 2022, 32, .	14.9	22
300	A strategy for fabricating nanoporous gold films through chemical dealloying of electrochemically deposited Au-Sn alloys. Nanotechnology, 2014, 25, 445602.	2.6	21
301	Hot-Chemistry Structural Phase Transformation in Single-Crystal Chalcogenides for Long-Life Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 20603-20612.	8.0	21
302	High performance organic sodium-ion hybrid capacitors based on nano-structured disodium rhodizonate rivaling inorganic hybrid capacitors. Green Chemistry, 2018, 20, 4920-4931.	9.0	21
303	Performance enhancement of horizontal underground-to-inseam gas drainage boreholes with double-phase-grouting sealing method for coal mining safety and clean gas resource. Journal of Natural Gas Science and Engineering, 2020, 76, 103179.	4.4	21
304	Water sorptivity of unsaturated fractured sandstone: Fractal modeling and neutron radiography experiment. Advances in Water Resources, 2019, 130, 172-183.	3.8	20
305	Improved Composite Solid Electrolyte through Ionic Liquid-Assisted Polymer Phase for Solid-State Lithium Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A1785-A1792.	2.9	20
306	Stimulation Techniques of Coalbed Methane Reservoirs. Geofluids, 2020, 2020, 1-23.	0.7	20

#	Article	IF	CITATIONS
307	Synthesis and structural evolution of Pt nanotubular skeletons: revealing the source of the instability of nanostructured electrocatalysts. Journal of Materials Chemistry A, 2015, 3, 12663-12671.	10.3	19
308	Synchrotron X-ray nano computed tomography based simulation of stress evolution in LiMn2O4 electrodes. Electrochimica Acta, 2017, 247, 1103-1116.	5.2	19
309	Characterization of unsaturated diffusivity of tight sandstones using neutron radiography. International Journal of Heat and Mass Transfer, 2018, 124, 693-705.	4.8	19
310	Clean Power Generation from the Intractable Natural Coalfield Fires: Turn Harm into Benefit. Scientific Reports, 2017, 7, 5302.	3.3	18
311	Coupled multiscale-modeling of microwave-heating-induced fracturing in shales. International Journal of Rock Mechanics and Minings Sciences, 2020, 136, 104520.	5.8	18
312	Effect of convective mass transfer on lead-acid battery performance. Electrochimica Acta, 2013, 97, 278-288.	5.2	17
313	Model-Based Prediction of Composition of an Unknown Blended Lithium-Ion Battery Cathode. Journal of the Electrochemical Society, 2015, 162, A716-A721.	2.9	17
314	Hollow PdCu nanocubes supported by N-doped graphene: A surface science and electrochemical study. International Journal of Hydrogen Energy, 2015, 40, 14305-14313.	7.1	17
315	Nitrogen and sulfur co-doped mesoporous carbon as cathode catalyst for H2/O2 alkaline membrane fuel cell – effect of catalyst/bonding layer loading. International Journal of Hydrogen Energy, 2016, 41, 9159-9166.	7.1	17
316	Nonprecious Electrocatalysts for Li-Air and Zn-Air batteries: Fundamentals and recent advances. IEEE Nanotechnology Magazine, 2017, 11, 29-55.	1.3	16
317	A new approach for selecting best development face ventilation mode based on G1-coefficient of variation method. Journal of Central South University, 2018, 25, 2462-2471.	3.0	16
318	Nitrogen Doped Carbon Nanotube Thin Films as Efficient Oxygen Reduction Catalyst for Alkaline Anion Exchange Membrane Fuel Cell. ECS Transactions, 2010, 28, 63-68.	0.5	15
319	Reduction of N ₂ to NH ₃ by TiO ₂ -supported Ni cluster catalysts: a DFT study. Physical Chemistry Chemical Physics, 2021, 23, 16707-16717.	2.8	15
320	Modified chalcogens with a tuned nano-architecture for high energy density and long life hybrid super capacitors. Journal of Materials Chemistry A, 2017, 5, 7523-7532.	10.3	14
321	Morphological and Electrochemical Characterization of Nanostructured Li ₄ Ti ₅ O ₁₂ Electrodes Using Multiple Imaging Mode Synchrotron X-ray Computed Tomography. Journal of the Electrochemical Society, 2017, 164, A2861-A2871.	2.9	14
322	Fast production of zinc–hexamethylenetetramine complex microflowers as an advanced sulfur reservoir for high-performance lithium–sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 5062-5069.	10.3	14
323	Biomimetic design of monolithic fuel cell electrodes with hierarchical structures. Nano Energy, 2016, 20, 57-67.	16.0	13
324	Effects of geomechanical properties of interburden on the damage-based permeability variation in the underlying coal seam. Journal of Natural Gas Science and Engineering, 2018, 55, 42-51.	4.4	13

#	Article	IF	CITATIONS
325	A Near-Isotropic Proton-Conducting Porous Graphene Oxide Membrane. ACS Nano, 2020, 14, 14947-14959.	14.6	13
326	Effects of chemical solvents on coal pore structural and fractal characteristics: An experimental investigation. Fuel, 2022, 327, 125246.	6.4	13
327	Modeling and Upscaling of Binary Gas Coal Interactions in CO2 Enhanced Coalbed Methane Recovery. Procedia Environmental Sciences, 2012, 12, 926-939.	1.4	12
328	Elevated rate capability of sulfur wrapped with thin rGO layers for lithium–sulfur batteries. RSC Advances, 2015, 5, 29370-29374.	3.6	12
329	Quantifying the impact of capillary trapping on coal seam gas recovery. Journal of Natural Gas Science and Engineering, 2020, 83, 103588.	4.4	12
330	Manganese-Based Non-Precious Metal Catalyst for Oxygen Reduction in Acidic Media. ECS Transactions, 2014, 61, 35-42.	0.5	11
331	Iron-tetracyanobenzene complex derived non-precious catalyst for oxygen reduction reaction. Electrochimica Acta, 2015, 162, 224-229.	5.2	11
332	A Polyanion Host as a Prospective High Voltage Cathode Material for Sodium Ion Batteries. Journal of the Electrochemical Society, 2018, 165, A1822-A1828.	2.9	11
333	Development of an integrated reservoir-wellbore model to examine the hydrodynamic behaviour of perforated pipes. Journal of Petroleum Science and Engineering, 2017, 156, 269-281.	4.2	11
334	Carbon Nanotube and Carbon Black Supported Platinum Nanocomposites as Oxygen Reduction Electrocatalysts for Polymer Electrolyte Fuel Cells. Electrochemistry, 2007, 75, 705-708.	1.4	10
335	Insights into the Nature of Synergistic Effects in Proton-Conducting 4,4â°'1H,1H-Bitriazole-Poly(ethylene oxide) Composites. Chemistry of Materials, 2009, 21, 4645-4652.	6.7	10
336	Charge/Discharge Asymmetry in Blended Lithium-Ion Electrodes. Journal of the Electrochemical Society, 2017, 164, A39-A47.	2.9	10
337	Experimental study on radon exhalation characteristics of coal samples under varying gas pressures. Results in Physics, 2018, 10, 1006-1014.	4.1	10
338	A Novel Design of High-Temperature Polymer Electrolyte Membrane Acetone Fuel Cell Sensor. Sensors and Actuators B: Chemical, 2021, 329, 129006.	7.8	10
339	Enhancing anaerobic digestion using free nitrous acid: Identifying the optimal pre-treatment condition in continuous operation. Water Research, 2021, 205, 117694.	11.3	10
340	Large-scale study of the effect of wellbore geometry on integrated reservoir-wellbore flow. Journal of Natural Gas Science and Engineering, 2016, 35, 320-330.	4.4	9
341	A facile self-templating synthesis of carbon frameworks with tailored hierarchical porosity for enhanced energy storage performance. Chemical Communications, 2017, 53, 5028-5031.	4.1	9
342	Flow field characters near fracture entrance in supercritical carbon dioxide sand fracturing. , 2019, 9, 999-1009.		9

#	Article	IF	CITATIONS
343	Evaluation of air blast parameters in block cave mining using particle flow code. International Journal of Mining, Reclamation and Environment, 2019, 33, 87-101.	2.8	9
344	N,N′-Bis(salicylidene)ethylenediamine as a nitrogen-rich precursor to synthesize electrocatalysts with high methanol-tolerance for polymer electrolyte membrane fuel cell oxygen reduction reaction. Journal of Power Sources, 2014, 260, 349-356.	7.8	8
345	Platinumâ€Palladium Core–Shell Nanoflower Catalyst with Improved Activity and Excellent Durability for the Oxygen Reduction Reaction. Advanced Materials Interfaces, 2018, 5, 1701508.	3.7	8
346	Nitrogen-doped graphene–TiO _x N _y nanocomposite electrode for highly efficient capacitive deionization. RSC Advances, 2019, 9, 28186-28193.	3.6	8
347	Applying low-salinity water to alter wettability in carbonate oil reservoirs: an experimental study. Journal of Petroleum Exploration and Production, 2021, 11, 451-475.	2.4	8
348	High Voltage Stability and Characterization of P2â€Na 0.66 Mn 1―y Mg y O 2 Cathode for Sodiumâ€Ion Batteries. ChemElectroChem, 2020, 7, 3284-3290.	3.4	8
349	Stabilization of platinum–nickel alloy nanoparticles with a sulfur-doped graphene support in polymer electrolyte membrane fuel cells. RSC Advances, 2016, 6, 112226-112231.	3.6	7
350	Evidence of Morphological Change in Sulfur Cathodes upon Irradiation by Synchrotron X-rays. ACS Energy Letters, 2022, 7, 577-582.	17.4	7
351	Improved Synthesis Method for a Cyanamide Derived Non-Precious ORR Catalyst for PEFCs. ECS Transactions, 2010, 28, 39-46.	0.5	6
352	Multifunctional Nano-Architecting of Si Electrode for High-Performance Lithium-Ion Battery Anode. Journal of the Electrochemical Society, 2019, 166, A2776-A2783.	2.9	6
353	Rational Design of Environmental Benign Organic–Inorganic Hybrid as a Prospective Cathode for Stable High-Voltage Sodium Ion Batteries. Journal of Physical Chemistry C, 2019, 123, 11464-11475.	3.1	6
354	Testing Impact Load Cell Calculations of Material Fracture Toughness and Strength Using 3D-Printed Sandstone. Geotechnical and Geological Engineering, 2020, 38, 1065-1096.	1.7	6
355	Scaling Compressive Strength from Mini-cylinder Specimens of Sub-bituminous Coal. Rock Mechanics and Rock Engineering, 2020, 53, 2839-2853.	5.4	6
356	Nafion/Acid Functionalized Mesoporous Silica Nanocomposite Membrane for High Temperature PEMFCs. ECS Transactions, 2009, 25, 1151-1157.	0.5	5
357	Nitrogen-Doped Activated Graphene Supported Platinum Electrocatalyst for Oxygen Reduction Reaction in PEM Fuel Cells. ECS Transactions, 2013, 50, 1815-1822.	0.5	5
358	Nonâ€Preciousâ€Metal Oxygen Reduction Reaction Electrocatalysis. ChemElectroChem, 2018, 5, 1743-1744.	3.4	5
359	Radial Permeability Measurements for Shale Using Variable Pressure Gradients. Acta Geologica Sinica, 2020, 94, 269-279.	1.4	5
360	Effects of heterogenous interburden Young's modulus on permeability characteristics of underlying relieved coal seam: Implementation of damage-based permeability model. Journal of Natural Gas Science and Engineering, 2021, 96, 104317.	4.4	5

#	Article	IF	CITATIONS
361	Platinum/Tin Oxide - Single Walled Carbon Nanotube Electrocatalysts for Direct Ethanol Fuel Cell. ECS Transactions, 2009, 25, 1169-1176.	0.5	4
362	Impact of Rock Microstructures on the Supercritical CO2 Enhanced Gas Recovery. , 2010, , .		4
363	Nanoporous Carbon-Supported Fe/Co-N Electrocatalyst for Oxygen Reduction Reaction in PEM Fuel Cells. ECS Transactions, 2010, 28, 101-112.	0.5	4
364	Reconciled Nanoarchitecture with Overlapped 2 D Anatomy for Highâ€Energy Hybrid Supercapacitors. Energy Technology, 2017, 5, 1919-1926.	3.8	4
365	Highly Efficient Removal of Suspended Solid Pollutants from Wastewater by Magnetic Fe ₃ O ₄ â€Graphene Oxides Nanocomposite. ChemistrySelect, 2018, 3, 11643-11648.	1.5	4
366	Fluid Flow in Unconventional Gas Reservoirs. Geofluids, 2018, 2018, 1-2.	0.7	4
367	Conformal formation of Carbon-TiOX matrix encapsulating silicon for high-performance lithium-ion battery anode. Journal of Power Sources, 2018, 399, 98-104.	7.8	4
368	The use of short impact load cell to derive geomechanical properties of sub-bituminous coal and mudstone. Journal of Natural Gas Science and Engineering, 2019, 72, 103018.	4.4	4
369	Interaction of Cleat-Matrix on Coal Permeability from Experimental Observations and Numerical Analysis. Geofluids, 2019, 2019, 1-15.	0.7	4
370	Impact of capillary trapping on CSG recovery: an overlooked phenomenon. APPEA Journal, 2019, 59, 343.	0.2	4
371	Fibre Optic Sensing Based Slope Crest Tension Crack Monitoring System for Surface Mines. , 2017, , .		4
372	Developing a new algorithm for numerical modeling of discrete fracture network (DFN) for anisotropic rock and percolation properties. Journal of Petroleum Exploration and Production, 2021, 11, 839-856.	2.4	4
373	Frontispiece: Engineering Oversaturated Feâ€N ₅ Multifunctional Catalytic Sites for Durable Lithium‣ulfur Batteries. Angewandte Chemie - International Edition, 2021, 60, .	13.8	4
374	Modelling of shaft based processes. Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy, 2020, 129, 157-165.	0.2	3
375	Multiple Fracture Growth in Modified Zipper Fracturing. International Journal of Geomechanics, 2021, 21, .	2.7	3
376	Towards the development of a baseline for surface movement in the Surat Cumulative Management Area. APPEA Journal, 2019, 59, 95.	0.2	3
377	A Robust Bundled and Wrapped Structure Design of Ultrastable Silicon Anodes for Antiaging Lithium-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 5540-5550.	5.1	3
378	Effect of Different Surface Morphologies and Nitrogen Contents on the Electrochemical Activity of Nitrogen Doped Carbon Nanotubes towards Oxygen Reduction Reaction for Low Temperature Fuel Cells. ECS Transactions, 2010, 28, 55-63.	0.5	2

#	Article	IF	CITATIONS
379	Nitrogen Doped Carbon Nanotubes Based Non-Precious Metal Catalysts for Oxygen Reduction Reaction at Alkaline Fuel Cell Cathode. ECS Transactions, 2010, 28, 65-70.	0.5	2
380	Electrocatalysts: Multigrain Platinum Nanowires Consisting of Oriented Nanoparticles Anchored on Sulfur-Doped Graphene as a Highly Active and Durable Oxygen Reduction Electrocatalyst (Adv. Mater.) Tj ETQqO	0 @1g BT /	Oværlock 10 T
381	One-Step Synthesized Tungsten Oxide/Carbon Nanotube Composites as Pt Catalyst Supports for Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. Journal of Nanoengineering and Nanomanufacturing, 2011, 1, 280-286.	0.3	2
382	An improved capillary pressure model for coal seam gas reservoirs. Journal of Natural Gas Science and Engineering, 2022, , 104551.	4.4	2
383	Impact of Effective Stress and CH4-CO2 Counter-Diffusion on CO2 Enhanced Coalbed Methane Recovery. , 2008, , .		1
384	Multiphysics of Coal-Gas Interactions: The Scientific Foundation for CBM Production and CO2 Storage in Coal. , 2010, , .		1

386	Highly Anion-Conducting Porous Polymer Electrolyte Membrane for Alkaline Fuel Cells. ECS Transactions, 2013, 50, 2083-2089.	0.5	1
387	Coaxial TiN-CNT Composites as Effective Low Temperature Fuel Cell Electrocatalyst Supports. ECS Transactions, 2013, 50, 1801-1806.	0.5	1
388	Electrospun Iron/Polyacrylonitrile Derived Nanofibrous Catalysts for Oxygen Reduction Reaction. ECS Transactions, 2013, 50, 1807-1814.	0.5	1
389	Nitrogen-doped Graphene as an Active Electrocatalyst for Oxygen Reduction Reaction. ECS Transactions 2013 50 1887-1893	0.5	1

A fully coupled gas flow, coal deformation and thermal transport model for the injection of carbon

390 Batteries: Flexible High-Energy Polymer-Electrolyte-Based Rechargeable Zinc-Air Batteries (Adv. Mater.) Tj ETQq0 0 0 grgBT /Overlock 10 T

391	The Waterloo Institute for Nanotechnology: Societal Impact and a Sustainable Future. ACS Nano, 2019, 13, 12247-12253.	14.6	1
392	A Stochastic Anisotropic Coal Permeability Model Using Mercury Intrusion Porosimetry, MIP and Stress-Strain Measurements. , 2019, , .		1
393	Shore hardness measurements of sub-bituminous coal microlithotypes. International Journal of Coal Geology, 2020, 217, 103341.	5.0	1
394	Predicting the radial heat transfer in the wellbore of cryogenic nitrogen fracturing: Insights into stimulating underground reservoir. Energy Science and Engineering, 2020, 8, 582-591.	4.0	1
395	Poroelastic solution of a wellbore in a swelling rock with non-hydrostatic stress field. Journal of Rock Mechanics and Geotechnical Engineering, 2022, 14, 303-314.	8.1	1
396	Validation of Bare FBG Sensors in Monitoring Compressive Rock Mass Deformation. , 2017, , .		1

#	Article	IF	CITATIONS
397	Sensitivity simulation and analysis of CO <inf>2</inf> injection for enhanced coalbed methane recovery. , 2011, , .		0
398	Creep: A Neglected Phenomenon in Coal Permeability Evolution and Coalbed Methane Production. , 2015, , .		0
399	Experimental Study of Impact of Dewatering Induced Coal Fines on Coal Permeability. , 2017, , .		0
400	Computational and Experimental Investigations of Fluid Flow in Rock Materials. Advances in Civil Engineering, 2018, 2018, 1-3.	0.7	0
401	Ternary Cross-Linked Multi-Functional Blended Polymers for High-Performance Silicon Anodes in Lithium-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 3807-3807.	0.0	0
402	Frontispiz: Engineering Oversaturated Feâ€N ₅ Multifunctional Catalytic Sites for Durable Lithiumâ€6ulfur Batteries. Angewandte Chemie, 2021, 133, .	2.0	0