

# David W Rooney

## List of Publications by Year in descending order

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164  
papers

10,101  
citations

26630

56  
h-index

42399

92  
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168  
all docs

168  
docs citations

168  
times ranked

10335  
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical challenges in biohydrogen production processes from the organic feedstocks. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 8383-8401.	4.6	75
2	Hydrogen production, storage, utilisation and environmental impacts: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 153-188.	16.2	218
3	Engineered magnetic oxides nanoparticles as efficient adsorbents for wastewater remediation: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 519-562.	16.2	28
4	Insights on magnetic spinel ferrites for targeted drug delivery and hyperthermia applications. <i>Nanotechnology Reviews</i> , 2022, 11, 372-413.	5.8	39
5	Integrating life cycle assessment and characterisation techniques: A case study of biodiesel production utilising waste <i>Prunus Armeniaca</i> seeds (PAS) and a novel catalyst. <i>Journal of Environmental Management</i> , 2022, 304, 114319.	7.8	26
6	Role of Ca, Cr, Ga and Gd promotor over lanthana-zirconia-supported Ni catalyst towards $H_2$ -rich syngas production through dry reforming of methane. <i>Energy Science and Engineering</i> , 2022, 10, 866-880.	4.0	21
7	Adsorptive removal of some Cl-VOC's as dangerous environmental pollutants using feather-like $\gamma$ - $Al_2O_3$ derived from aluminium waste with life cycle analysis. <i>Chemosphere</i> , 2022, 295, 133795.	8.2	11
8	Fungal-derived selenium nanoparticles and their potential applications in electroless silver coatings for preventing pin-tract infections. <i>International Journal of Energy Production and Management</i> , 2022, 9, 13-18.	3.7	11
9	Assessment of Lewis Acidic Surface Sites Using Tetrahydrofuran as a Suitable and Smart Probe Molecule. <i>ChemistryOpen</i> , 2022, 11, e202200021.	1.9	5
10	Strategies to achieve a carbon neutral society: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 2277-2310.	16.2	336
11	Highly basic and active ZnO-K <sub>2</sub> O nanocomposite catalysts for the production of methyl ethyl ketone biofuel. <i>Energy Science and Engineering</i> , 2022, 10, 2827-2841.	4.0	3
12	Biochar for agronomy, animal farming, anaerobic digestion, composting, water treatment, soil remediation, construction, energy storage, and carbon sequestration: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 2385-2485.	16.2	162
13	Removal of phthalates from aqueous solution by semiconductor photocatalysis: A review. <i>Journal of Hazardous Materials</i> , 2021, 402, 123461.	12.4	95
14	Renewable cellulosic nanocomposites for food packaging to avoid fossil fuel plastic pollution: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 613-641.	16.2	111
15	Recent advances in carbon capture storage and utilisation technologies: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 797-849.	16.2	363
16	Type 3 Porous Liquids for the Separation of Ethane and Ethene. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 932-936.	8.0	32
17	Advanced materials and technologies for supercapacitors used in energy conversion and storage: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 375-439.	16.2	255
18	Industrial biochar systems for atmospheric carbon removal: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 3023-3055.	16.2	79

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19	Circular economy approach of enhanced bifunctional catalytic system of CaO/CeO <sub>2</sub> for biodiesel production from waste loquat seed oil with life cycle assessment study. <i>Energy Conversion and Management</i> , 2021, 236, 114040.	9.2	72
20	MoS <sub>2</sub> -based nanocomposites: synthesis, structure, and applications in water remediation and energy storage: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 3645-3681.	16.2	48
21	Conversion of biomass to biofuels and life cycle assessment: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 4075-4118.	16.2	263
22	Characterization and kinetic modeling for pyrolytic conversion of cotton stalks. <i>Energy Science and Engineering</i> , 2021, 9, 1908-1918.	4.0	13
23	An experimental study of engine characteristics and tailpipe emissions from modern DI diesel engine fuelled with methanol/diesel blends. <i>Fuel Processing Technology</i> , 2021, 220, 106901.	7.2	61
24	Pyrolysis Kinetic Modeling of a Poly(ethylene-co-vinyl acetate) Encapsulant Found in Waste Photovoltaic Modules. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 13492-13504.	3.7	13
25	Bioethanol and biodiesel: Bibliometric mapping, policies and future needs. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111677.	16.4	65
26	Impact of ionic liquids on silver thermoplastic polyurethane composite membranes for propane/propylene separation. <i>Arabian Journal of Chemistry</i> , 2020, 13, 404-415.	4.9	6
27	Insight on water remediation application using magnetic nanomaterials and biosorbents. <i>Coordination Chemistry Reviews</i> , 2020, 403, 213096.	18.8	183
28	Upcycling brewer's spent grain waste into activated carbon and carbon nanotubes for energy and other applications via two-stage activation. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 183-195.	3.2	69
29	Hollow germanium nanocrystals on reduced graphene oxide for superior stable lithium-ion half cell and germanium (lithiated)-sulfur battery. <i>Energy Storage Materials</i> , 2020, 26, 414-422.	18.0	14
30	Strategies for mitigation of climate change: a review. <i>Environmental Chemistry Letters</i> , 2020, 18, 2069-2094.	16.2	532
31	Techno-economic evaluation of biogas production from food waste via anaerobic digestion. <i>Scientific Reports</i> , 2020, 10, 15719.	3.3	87
32	Physicochemical Characterization and Kinetic Modeling Concerning Combustion of Waste Berry Pomace. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17573-17586.	6.7	31
33	Hierarchical graphene-scaffolded mesoporous germanium dioxide nanostructure for high-performance flexible lithium-ion batteries. <i>Energy Storage Materials</i> , 2020, 29, 198-206.	18.0	12
34	Synergism of photocycloaddition and photoinduced electron transfer for multi-state responsive materials with high-stability and reversibility. <i>Chemical Communications</i> , 2020, 56, 4126-4129.	4.1	9
35	The production and application of carbon nanomaterials from high alkali silicate herbaceous biomass. <i>Scientific Reports</i> , 2020, 10, 2563.	3.3	93
36	Tuning the defects of the triple conducting oxide BaCo <sub>0.4</sub> Fe <sub>0.4</sub> Zr <sub>0.1</sub> Y <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> perovskite toward enhanced cathode activity of protonic ceramic fuel cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18365-18372.	10.3	142

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37	Upcycling food waste digestate for energy and heavy metal remediation applications. <i>Resources Conservation &amp; Recycling X</i> , 2019, 3, 100015.	4.2	16
38	Three-Dimensional Double-Walled Ultrathin Graphite Tube Conductive Scaffold with Encapsulated Germanium Nanoparticles as a High-Areal-Capacity and Cycle-Stable Anode for Lithium-Ion Batteries. <i>ACS Nano</i> , 2019, 13, 7536-7544.	14.6	34
39	Anchored monodispersed silicon and sulfur nanoparticles on graphene for high-performance lithiated silicon-sulfur battery. <i>Energy Storage Materials</i> , 2019, 23, 284-291.	18.0	17
40	Reusing, recycling and up-cycling of biomass: A review of practical and kinetic modelling approaches. <i>Fuel Processing Technology</i> , 2019, 192, 179-202.	7.2	66
41	Is the Fischer-Tropsch Conversion of Biogas-Derived Syngas to Liquid Fuels Feasible at Atmospheric Pressure?. <i>Energies</i> , 2019, 12, 1031.	3.1	8
42	Top-down synthesis of iron fluoride/reduced graphene nanocomposite for high performance lithium-ion battery. <i>Electrochimica Acta</i> , 2019, 313, 497-504.	5.2	22
43	Assessment of the energy recovery potential of waste Photovoltaic (PV) modules. <i>Scientific Reports</i> , 2019, 9, 5267.	3.3	56
44	Production and characterisation of activated carbon and carbon nanotubes from potato peel waste and their application in heavy metal removal.. <i>Environmental Science and Pollution Research</i> , 2019, 26, 37228-37241.	5.3	90
45	Characterisation of Robust Combustion Catalyst from Aluminium Foil Waste. <i>ChemistrySelect</i> , 2018, 3, 1545-1550.	1.5	23
46	Physicochemical characterization of miscanthus and its application in heavy metals removal from wastewaters. <i>Environmental Progress and Sustainable Energy</i> , 2018, 37, 1058-1067.	2.3	41
47	Quantification of anaerobic digestion feedstocks for a regional bioeconomy. <i>Proceedings of Institution of Civil Engineers: Waste and Resource Management</i> , 2018, 171, 94-103.	0.8	5
48	Yolk-Shell Germanium@Polypyrrole Architecture with Precision Expansion Void Control for Lithium Ion Batteries. <i>IScience</i> , 2018, 9, 521-531.	4.1	22
49	Batch to continuous photocatalytic degradation of phenol using TiO <sub>2</sub> and Au-Pd nanoparticles supported on TiO <sub>2</sub> . <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 6382-6389.	6.7	29
50	A highly active and synergistic Pt/Mo <sub>2</sub> C/Al <sub>2</sub> O <sub>3</sub> catalyst for water-gas shift reaction. <i>Molecular Catalysis</i> , 2018, 455, 38-47.	2.0	36
51	Role of flower-like ultrathin Co <sub>3</sub> O <sub>4</sub> nanosheets in water splitting and non-aqueous Li-O <sub>2</sub> batteries. <i>Nanoscale</i> , 2018, 10, 10221-10231.	5.6	60
52	Self-templated fabrication of micro/nano structured iron fluoride for high-performance lithium-ion batteries. <i>Journal of Power Sources</i> , 2018, 396, 371-378.	7.8	36
53	Liquid-Liquid Equilibria of Ionic Liquids-Water-Acetic Acid Mixtures. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 653-664.	1.9	25
54	Cross-validatory framework for optimal parameter estimation of KPCA and KPLS models. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017, 167, 196-207.	3.5	16

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55	A Facile Green Synthetic Route for the Preparation of Highly Active $\gamma$ -Al <sub>2</sub> O <sub>3</sub> from Aluminum Foil Waste. <i>Scientific Reports</i> , 2017, 7, 3593.	3.3	47
56	Investigation of the performance of biocompatible gas hydrate inhibitors via combined experimental and DFT methods. <i>Journal of Chemical Thermodynamics</i> , 2017, 111, 7-19.	2.0	20
57	Facile Synthesis of Hierarchical Porous Three-Dimensional Free-Standing MnCo <sub>2</sub> O <sub>4</sub> Cathodes for Long-Life Li <sup>+</sup> O <sub>2</sub> Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 12355-12365.	8.0	60
58	Enhanced catalytic activity of Ni on $\gamma$ -Al <sub>2</sub> O <sub>3</sub> and ZSM-5 on addition of ceria zirconia for the partial oxidation of methane. <i>Applied Catalysis B: Environmental</i> , 2017, 212, 68-79.	20.2	62
59	3D nitrogen-doped graphene foam with encapsulated germanium/nitrogen-doped graphene yolk-shell nanoarchitecture for high-performance flexible Li-ion battery. <i>Nature Communications</i> , 2017, 8, 13949.	12.8	342
60	Thermal Investigation and Kinetic Modeling of Lignocellulosic Biomass Combustion for Energy Production and Other Applications. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 12119-12130.	3.7	56
61	Silver-Modified $\gamma$ -Al <sub>2</sub> O <sub>3</sub> Catalyst for DME Production. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25018-25032.	3.1	38
62	Surface hydrophobicity and acidity effect on alumina catalyst in catalytic methanol dehydration reaction. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2952-2962.	3.2	43
63	Achieving high specific capacity of lithium-ion battery cathodes by modification with $\text{CO}_2$ radicals and oxygen-containing functional groups. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24636-24644.	10.3	17
64	3D free-standing hierarchical CuCo <sub>2</sub> O <sub>4</sub> nanowire cathodes for rechargeable lithium-oxygen batteries. <i>Chemical Communications</i> , 2017, 53, 8711-8714.	4.1	51
65	Co <sub>9</sub> S <sub>8</sub> activated N/S co-doped carbon tubes in situ grown on carbon nanofibers for efficient oxygen reduction. <i>RSC Advances</i> , 2017, 7, 34763-34769.	3.6	11
66	Investigation of Sc doped Sr <sub>2</sub> Fe <sub>1.5</sub> Mo <sub>0.5</sub> O <sub>6</sub> as a cathode material for intermediate temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2017, 343, 237-245.	7.8	25
67	Ultradispersed Nanoarchitecture of LiV <sub>3</sub> O <sub>8</sub> Nanoparticle/Reduced Graphene Oxide with High-Capacity and Long-Life Lithium-Ion Battery Cathodes. <i>Scientific Reports</i> , 2016, 6, 19843.	3.3	26
68	Evaluation of strontium-site-deficient Sr <sub>2</sub> Fe <sub>1.4</sub> Co <sub>0.1</sub> Mo <sub>0.5</sub> O <sub>6</sub> -based perovskite oxides as intermediate temperature solid oxide fuel cell cathodes. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 9538-9546.	7.1	18
69	High performance cobalt-free Cu <sub>1.4</sub> Mn <sub>1.6</sub> O <sub>4</sub> spinel oxide as an intermediate temperature solid oxide fuel cell cathode. <i>Journal of Power Sources</i> , 2016, 315, 140-144.	7.8	53
70	Fabrication and evaluation of NiO/Y <sub>2</sub> O <sub>3</sub> -stabilized-ZrO <sub>2</sub> hollow fibers for anode-supported micro-tubular solid oxide fuel cells. <i>Ceramics International</i> , 2016, 42, 8559-8564.	4.8	11
71	A simply effective double-coating cathode with MnO <sub>2</sub> nanosheets/graphene as functionalized interlayer for high performance lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2016, 207, 198-206.	5.2	85
72	CoO nanoparticles embedded in three-dimensional nitrogen/sulfur co-doped carbon nanofiber networks as a bifunctional catalyst for oxygen reduction/evolution reactions. <i>Carbon</i> , 2016, 106, 84-92.	10.3	134

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73	Synthesis of Pr <sub>0.6</sub> Sr <sub>0.4</sub> FeO <sub>3</sub> ~x~Ce <sub>0.9</sub> Pr <sub>0.1</sub> O <sub>2</sub> ~y~ cobalt-free composite cathodes by a one-pot method for intermediate-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 4005-4015.	7.1	25
74	Improved electrochemical performance of Sr <sub>2</sub> Fe <sub>1.5</sub> Mo <sub>0.4</sub> Nb <sub>0.1</sub> O <sub>6</sub> ~z~Sm <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>2</sub> ~w~ composite cathodes by a one-pot method for intermediate temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 3052-3061.	7.1	8
75	A bimetallic catalyst on a dual component support for low temperature total methane oxidation. <i>Applied Catalysis B: Environmental</i> , 2016, 187, 408-418.	20.2	68
76	Flash-Sintering and Characterization of La <sub>0.8</sub> Sr <sub>0.2</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>3</sub> ~t~ Electrolytes for Solid Oxide Fuel Cells. <i>Electrochimica Acta</i> , 2016, 196, 487-495.	5.2	34
77	Doubly dual nature of ammonium-based ionic liquids for methane hydrates probed by rocking-rig assembly. <i>RSC Advances</i> , 2016, 6, 23827-23836.	3.6	64
78	Preparation and characterization of Pr <sub>0.6</sub> Sr <sub>0.4</sub> FeO <sub>3</sub> ~a~Ce <sub>0.9</sub> Pr <sub>0.1</sub> O <sub>2</sub> ~b~ nanofiber structured composite cathode for IT-SOFCs. <i>Ceramics International</i> , 2016, 42, 9311-9314.	4.8	10
79	Enhanced durability of Li~O<sub>2</sub> batteries employing vertically standing Ti nanowire array supported cathodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4009-4014.	10.3	16
80	An effective three-dimensional ordered mesoporous CuCo <sub>2</sub> O <sub>4</sub> as electrocatalyst for Li-O <sub>2</sub> batteries. <i>Solid State Ionics</i> , 2016, 289, 17-22.	2.7	39
81	Fabrication and characterization of SSZ tape cast electrolyte-supported solid oxide fuel cells. <i>Ceramics International</i> , 2016, 42, 5523-5529.	4.8	8
82	Co-tape casting fabrication, field assistant sintering and evaluation of a coke resistant La <sub>0.2</sub> Sr <sub>0.7</sub> TiO <sub>3</sub> ~c~Ni/YSZ functional gradient anode supported solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 12790-12797.	7.1	15
83	Mild temperature palladium-catalyzed ammoxidation of ethanol to acetonitrile. <i>Applied Catalysis A: General</i> , 2015, 506, 261-267.	4.3	28
84	Understanding the Flash Sintering of Rare~Earth~Doped Ceria for Solid Oxide~Fuel Cell. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1717-1723.	3.8	63
85	Sandwich nanoarchitecture of LiV<sub>3</sub>O<sub>8</sub>/graphene multilayer nanomembranes via layer-by-layer self-assembly for long-cycle-life lithium-ion battery cathodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13717-13723.	10.3	16
86	Re-dispersion of gold supported on a ~ mixed~ oxide support. <i>Journal of Lithic Studies</i> , 2015, 1, 120-124.	0.5	3
87	Influence of trace substances on methanation catalysts used in dynamic biogas upgrading. <i>Bioresource Technology</i> , 2015, 178, 319-322.	9.6	13
88	A design strategy of large grain lithium-rich layered oxides for lithium-ion batteries cathode. <i>Electrochimica Acta</i> , 2015, 160, 131-138.	5.2	21
89	Enhancing Liquid-Phase Olefin~Paraffin Separations Using Novel Silver-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , 2015, 60, 28-36.	1.9	26
90	Three-dimensional graphene~Co<sub>3</sub>O<sub>4</sub> cathodes for rechargeable Li~O<sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1504-1510.	10.3	93

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91	An effective three-dimensional ordered mesoporous ZnCo <sub>2</sub> O <sub>4</sub> as electrocatalyst for Li-O <sub>2</sub> batteries. <i>Materials Letters</i> , 2015, 158, 84-87.	2.6	27
92	Design of an automated solar concentrator for the pyrolysis of scrap rubber. <i>Energy Conversion and Management</i> , 2015, 101, 118-125.	9.2	50
93	Three-dimensional porous carbon nanofiber networks decorated with cobalt-based nanoparticles: A robust electrocatalyst for efficient water oxidation. <i>Carbon</i> , 2015, 94, 680-686.	10.3	28
94	One-dimensional porous La <sub>0.5</sub> Sr <sub>0.5</sub> CoO <sub>2.91</sub> nanotubes as a highly efficient electrocatalyst for rechargeable lithium-oxygen batteries. <i>Electrochimica Acta</i> , 2015, 165, 78-84.	5.2	29
95	Preparation of La <sub>2</sub> NiO <sub>4</sub> + $\delta$ powders as a cathode material for SOFC via a PVP-assisted hydrothermal route. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 957-965.	2.5	5
96	In situ preparation of 3D graphene aerogels@hierarchical Fe <sub>3</sub> O <sub>4</sub> nanoclusters as high rate and long cycle anode materials for lithium ion batteries. <i>Chemical Communications</i> , 2015, 51, 1597-1600.	4.1	76
97	Biogas reforming using renewable wind energy and induction heating. <i>Catalysis Today</i> , 2015, 242, 129-138.	4.4	40
98	Surface modification of LiV <sub>3</sub> O <sub>8</sub> nanosheets via layer-by-layer self-assembly for high-performance rechargeable lithium batteries. <i>Journal of Power Sources</i> , 2014, 257, 319-324.	7.8	21
99	Use of water in aiding olefin/paraffin (liquid+liquid) extraction via complexation with a silver bis(trifluoromethylsulfonyl)imide salt. <i>Journal of Chemical Thermodynamics</i> , 2014, 77, 230-240.	2.0	6
100	Facile Synthesis of Anatase TiO <sub>2</sub> Quantum Dot/Graphene Nanosheet Composites with Enhanced Electrochemical Performance for Lithium Ion Batteries. <i>Advanced Materials</i> , 2014, 26, 2084-2088.	21.0	281
101	Facile synthesis of nanocrystalline LiFePO <sub>4</sub> /graphene composite as cathode material for high power lithium ion batteries. <i>Electrochimica Acta</i> , 2014, 130, 594-599.	5.2	31
102	Evaluation and mechanistic investigation of a AuPd alloy catalyst for the hydrocarbon selective catalytic reduction (HC-SCR) of NO <sub>x</sub> . <i>Applied Catalysis B: Environmental</i> , 2014, 147, 864-870.	20.2	25
103	Gas Hydrate Inhibition: A Review of the Role of Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 17855-17868.	3.7	171
104	Investigation into the effect of Fe-site substitution on the performance of Sr <sub>2</sub> Fe <sub>1.5</sub> Mo <sub>0.5</sub> O <sub>6</sub> + $\delta$ anodes for SOFCs. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17628-17634.	10.3	70
105	Application of halohydrocarbons for the re-dispersion of gold particles. <i>Catalysis Science and Technology</i> , 2014, 4, 729.	4.1	26
106	Self-cleaning perovskite type catalysts for the dry reforming of methane. <i>Chinese Journal of Catalysis</i> , 2014, 35, 1337-1346.	14.0	14
107	Moving from Batch to Continuous Operation for the Liquid Phase Dehydrogenation of Tetrahydrocarbazole. <i>Organic Process Research and Development</i> , 2014, 18, 392-401.	2.7	10
108	Investigation into the effect of molybdenum-site substitution on the performance of Sr <sub>2</sub> Fe <sub>1.5</sub> Mo <sub>0.5</sub> O <sub>6</sub> + $\delta$ for intermediate temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2014, 272, 759-765.	7.8	47



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109	A new family of barium-doped Sr <sub>2</sub> Fe <sub>1.5</sub> Mo <sub>0.5</sub> O <sub>6</sub> perovskites for application in intermediate temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2014, 268, 176-182.	7.8	44
110	Viscous Behavior of Imidazolium-Based Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 16774-16785.	3.7	64
111	Structural and magnetic properties of Ni <sub>1-x</sub> Zn <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> (x=0, 0.5 and 1) nanopowders prepared by sol-gel method. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 348, 44-50.	2.3	74
112	In situ synthesis of LiV <sub>3</sub> O <sub>8</sub> nanorods on graphene as high rate-performance cathode materials for rechargeable lithium batteries. <i>Chemical Communications</i> , 2013, 49, 9143.	4.1	30
113	High pressure CO <sub>2</sub> absorption studies on imidazolium-based ionic liquids: Experimental and simulation approaches. <i>Fluid Phase Equilibria</i> , 2013, 351, 74-86.	2.5	56
114	Fermentable sugars recovery from lignocellulosic waste-newspaper by catalytic hydrolysis. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 3005-3016.	2.2	6
115	Are Alkyl Sulfate-Based Protic and Aprotic Ionic Liquids Stable with Water and Alcohols? A Thermodynamic Approach. <i>Journal of Physical Chemistry B</i> , 2013, 117, 1938-1949.	2.6	33
116	Hydrolysis characteristics and kinetics of waste hay biomass as a potential energy crop for fermentable sugars production using autoclave parr reactor system. <i>Industrial Crops and Products</i> , 2013, 44, 1-10.	5.2	14
117	An In Situ Ionic-Liquid-Assisted Synthetic Approach to Iron Fluoride/Graphene Hybrid Nanostructures as Superior Cathode Materials for Lithium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 5057-5063.	8.0	64
118	Artificial Neural Network for Compositional Ionic Liquid Viscosity Prediction. <i>International Journal of Computational Intelligence Systems</i> , 2012, 5, 460.	2.7	7
119	Structure of the methanol synthesis catalyst determined by in situ HERFD XAS and EXAFS. <i>Catalysis Science and Technology</i> , 2012, 2, 373-378.	4.1	33
120	Activity and deactivation studies for direct dimethyl ether synthesis using Cu-Zn-Al <sub>2</sub> O <sub>3</sub> with NH <sub>4</sub> ZSM-5, HZSM-5 or $\gamma$ -Al <sub>2</sub> O <sub>3</sub> . <i>Chemical Engineering Journal</i> , 2012, 203, 201-211.	12.7	84
121	Effect of precursor on the performance of alumina for the dehydration of methanol to dimethyl ether. <i>Applied Catalysis B: Environmental</i> , 2012, 127, 307-315.	20.2	114
122	Phase Equilibria of Binary and Ternary Systems Containing ILs, Dodecane, and Cyclohexanecarboxylic Acid. <i>Separation Science and Technology</i> , 2012, 47, 312-324.	2.5	14
123	Acid-catalyzed hydrolysis of cellulose and cellulosic waste using a microwave reactor system. <i>RSC Advances</i> , 2011, 1, 839.	3.6	29
124	Dilute phosphoric acid-catalysed hydrolysis of municipal bio-waste wood shavings using autoclave parr reactor system. <i>Bioresource Technology</i> , 2011, 102, 9076-9082.	9.6	28
125	Batch and continuous biogas production from grass silage liquor. <i>Bioresource Technology</i> , 2011, 102, 10922-10928.	9.6	18
126	Theoretical and experimental correlations of gas dissolution, diffusion, and thermodynamic properties in determination of gas permeability and selectivity in supported ionic liquid membranes. <i>Advances in Colloid and Interface Science</i> , 2011, 164, 45-55.	14.7	56



#	ARTICLE	IF	CITATIONS
127	Thermophysical properties of ionic liquids. ACS Symposium Series, 2010, , 43-60.	0.5	6
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