

David W Rooney

List of Publications by Citations

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162
papers

6,357
citations

46
h-index

72
g-index

168
ext. papers

7,996
ext. citations

7.6
avg, IF

6.37
L-index

#	Paper	IF	Citations
162	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	17.4	277
161	Facile synthesis of anatase TiO ₂ quantum-dot/graphene-nanosheet composites with enhanced electrochemical performance for lithium-ion batteries. <i>Advanced Materials</i> , 2014 , 26, 2084-8	24	251
160	An investigation of the radiochemical stability of ionic liquids. <i>Green Chemistry</i> , 2002 , 4, 152-158	10	230
159	Prediction of Ionic Liquid Properties. I. Volumetric Properties as a Function of Temperature at 0.1 MPa. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 716-726	2.8	218
158	Strategies for mitigation of climate change: a review. <i>Environmental Chemistry Letters</i> , 2020 , 18, 2069-2094	9.3	161
157	Highly selective and efficient hydrogenation of carboxylic acids to alcohols using titania supported Pt catalysts. <i>Chemical Communications</i> , 2010 , 46, 6279-81	5.8	149
156	Thermal Conductivities of Ionic Liquids over the Temperature Range from 293 K to 353 K. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1819-1823	2.8	147
155	Heat Capacities of Ionic Liquids as a Function of Temperature at 0.1 MPa. Measurement and Prediction. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2148-2153	2.8	143
154	Gas Hydrate Inhibition: A Review of the Role of Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 17855-17868	3.9	139
153	Prediction of Ionic Liquid Properties. II. Volumetric Properties as a Function of Temperature and Pressure. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2133-2143	2.8	124
152	An experimental study of gas transport and separation properties of ionic liquids supported on nanofiltration membranes. <i>Journal of Membrane Science</i> , 2006 , 280, 948-956	9.6	112
151	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	10.4	112
150	Thermophysical Properties of Amino Acid-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 1505-1515	2.8	102
149	Recent advances in carbon capture storage and utilisation technologies: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 797-849	13.3	101
148	Advanced materials and technologies for supercapacitors used in energy conversion and storage: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 375-439	13.3	100
147	Insight on water remediation application using magnetic nanomaterials and biosorbents. <i>Coordination Chemistry Reviews</i> , 2020 , 403, 213096	23.2	96
146	Evaluation of Gas Solubility Prediction in Ionic Liquids using COSMOthermX. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 2005-2022	2.8	89

145	Three-dimensional graphene-Co ₃ O ₄ cathodes for rechargeable LiD ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1504-1510	13	86
144	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	21.8	85
143	Thermophysical properties of ionic liquids. <i>Topics in Current Chemistry</i> , 2010 , 290, 185-212		80
142	Accounting for clean, fast and high yielding reactions under microwave conditions. <i>Green Chemistry</i> , 2010 , 12, 1340	10	77
141	A simply effective double-coating cathode with MnO ₂ nanosheets/graphene as functionalized interlayer for high performance lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2016 , 207, 198-206	6.7	74
140	In situ preparation of 3D graphene aerogels@hierarchical Fe ₃ O ₄ nanoclusters as high rate and long cycle anode materials for lithium ion batteries. <i>Chemical Communications</i> , 2015 , 51, 1597-600	5.8	73
139	Heterogeneously catalysed selective hydrogenation reactions in ionic liquids. <i>Green Chemistry</i> , 2003 , 5, 448	10	73
138	Activity and deactivation studies for direct dimethyl ether synthesis using CuO _x /nO _x /Al ₂ O ₃ with NH ₄ ZSM-5, HZSM-5 or γ -Al ₂ O ₃ . <i>Chemical Engineering Journal</i> , 2012 , 203, 201-211	14.7	68
137	Marked enantioselectivity enhancements for Diels-Alder reactions in ionic liquids catalysed by platinum diphosphine complexes. <i>Green Chemistry</i> , 2004 , 6, 63-67	10	68
136	Rheological and heat transfer behaviour of the ionic liquid, [C ₄ mim][NTf ₂]. <i>International Journal of Heat and Fluid Flow</i> , 2008 , 29, 149-155	2.4	65
135	Structural and magnetic properties of Ni _{1-x} Zn _x Fe ₂ O ₄ (x=0, 0.5 and 1) nanopowders prepared by sol-gel method. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 348, 44-50	2.8	64
134	Chloroindate(III) ionic liquids: recyclable media for Friedel-Crafts acylation reactions. <i>Chemical Communications</i> , 2005 , 903-5	5.8	58
133	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 & Interfaces</i> , 2013 , 5, 5057-63	9.5	57
132	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	55
131	Investigation into the effect of Fe-site substitution on the performance of Sr ₂ Fe _{1.5} Mo _{0.5} O ₆ anodes for SOFCs. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17628-17634	13	53
130	A catalytic and mechanistic study of the Friedel-Crafts benzoylation of anisole using zeolites in ionic liquids. <i>Journal of Catalysis</i> , 2004 , 227, 44-52	7.3	53
129	A bimetallic catalyst on a dual component support for low temperature total methane oxidation. <i>Applied Catalysis B: Environmental</i> , 2016 , 187, 408-418	21.8	52
128	Tuning the defects of the triple conducting oxide BaCo _{0.4} Fe _{0.4} Zr _{0.1} Y _{0.1} O ₃ perovskite toward enhanced cathode activity of protonic ceramic fuel cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18365-18372	13	52

127	Viscous Behavior of Imidazolium-Based Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 16774-16785	3.9	52
126	Utilisation of ionic liquid solvents for the synthesis of Lily-of-the-Valley fragrance (Lilial [®] ; 3-(4- <i>t</i> -butylphenyl)-2-methylpropanal). <i>Journal of Molecular Catalysis A</i> , 2005 , 231, 61-66		52
125	Conversion of biomass to biofuels and life cycle assessment: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 4075	13.3	52
124	Interfacial tensions of imidazolium-based ionic liquids with water and <i>n</i> -alkanes. <i>Fluid Phase Equilibria</i> , 2010 , 294, 139-147	2.5	51
123	Enhanced catalytic activity of Ni on γ -Al ₂ O ₃ and ZSM-5 on addition of ceria zirconia for the partial oxidation of methane. <i>Applied Catalysis B: Environmental</i> , 2017 , 212, 68-79	21.8	50
122	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	5.1	50
121	Facile Synthesis of Hierarchical Porous Three-Dimensional Free-Standing MnCoO Cathodes for Long-Life Li-O Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12355-12365	9.5	49
120	Renewable cellulosic nanocomposites for food packaging to avoid fossil fuel plastic pollution: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 613-641	13.3	47
119	Doubly dual nature of ammonium-based ionic liquids for methane hydrates probed by rocking-rig assembly. <i>RSC Advances</i> , 2016 , 6, 23827-23836	3.7	46
118	High pressure CO ₂ absorption studies on imidazolium-based ionic liquids: Experimental and simulation approaches. <i>Fluid Phase Equilibria</i> , 2013 , 351, 74-86	2.5	46
117	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	14.3	46
116	Role of flower-like ultrathin CoO nanosheets in water splitting and non-aqueous Li-O batteries. <i>Nanoscale</i> , 2018 , 10, 10221-10231	7.7	46
115	Thermal Investigation and Kinetic Modeling of Lignocellulosic Biomass Combustion for Energy Production and Other Applications. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 12119-12130	3.9	44
114	Polymer-supported phosphoramidites: highly efficient and recyclable catalysts for asymmetric hydrogenation of dimethylitaconate and dehydroamino acids and esters. <i>Tetrahedron: Asymmetry</i> , 2003 , 14, 1517-1527		44
113	The production and application of carbon nanomaterials from high alkali silicate herbaceous biomass. <i>Scientific Reports</i> , 2020 , 10, 2563	4.9	43
112	Removal of phthalates from aqueous solution by semiconductor photocatalysis: A review. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123461	12.8	39
111	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	38
110	Deactivation and regeneration of ruthenium on silica in the liquid-phase hydrogenation of butan-2-one. <i>Journal of Catalysis</i> , 2009 , 265, 80-88	7.3	38

109	Design of an automated solar concentrator for the pyrolysis of scrap rubber. <i>Energy Conversion and Management</i> , 2015 , 101, 118-125	10.6	37
108	3D free-standing hierarchical CuCoO nanowire cathodes for rechargeable lithium-oxygen batteries. <i>Chemical Communications</i> , 2017 , 53, 8711-8714	5.8	37
107	Investigation into the effect of molybdenum-site substitution on the performance of Sr ₂ Fe _{1.5} Mo _{0.5} O ₆ for intermediate temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2014 , 272, 759-765	8.9	36
106	A Facile Green Synthetic Route for the Preparation of Highly Active Al ₂ O ₃ from Aluminum Foil Waste. <i>Scientific Reports</i> , 2017 , 7, 3593	4.9	34
105	A new family of barium-doped Sr ₂ Fe _{1.5} Mo _{0.5} O ₆ perovskites for application in intermediate temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2014 , 268, 176-182	8.9	34
104	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	3.5	34
103	High performance cobalt-free Cu _{1.4} Mn _{1.6} O ₄ spinel oxide as an intermediate temperature solid oxide fuel cell cathode. <i>Journal of Power Sources</i> , 2016 , 315, 140-144	8.9	34
102	Physicochemical characterization of miscanthus and its application in heavy metals removal from wastewaters. <i>Environmental Progress and Sustainable Energy</i> , 2018 , 37, 1058-1067	2.5	33
101	One-Pot Multistep Synthetic Strategies for the Production of Fenpropimorph Using an Ionic Liquid Solvent. <i>Organic Process Research and Development</i> , 2006 , 10, 94-102	3.9	33
100	An effective three-dimensional ordered mesoporous CuCo ₂ O ₄ as electrocatalyst for Li-O ₂ batteries. <i>Solid State Ionics</i> , 2016 , 289, 17-22	3.3	32
99	Supported ionic liquid membranes in nanopore structure for gas separation and transport studies. <i>Desalination</i> , 2006 , 199, 535-537	10.3	32
98	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	3.5	32
97	Critical challenges in biohydrogen production processes from the organic feedstocks. <i>Biomass Conversion and Biorefinery</i> , 2020 , 1	2.3	30
96	One-dimensional porous La _{0.5} Sr _{0.5} CoO _{2.91} nanotubes as a highly efficient electrocatalyst for rechargeable lithium-oxygen batteries. <i>Electrochimica Acta</i> , 2015 , 165, 78-84	6.7	29
95	Facile synthesis of nanocrystalline LiFePO ₄ /graphene composite as cathode material for high power lithium ion batteries. <i>Electrochimica Acta</i> , 2014 , 130, 594-599	6.7	29
94	In situ synthesis of LiV ₃ O ₈ nanorods on graphene as high rate-performance cathode materials for rechargeable lithium batteries. <i>Chemical Communications</i> , 2013 , 49, 9143-5	5.8	29
93	Structure of the methanol synthesis catalyst determined by in situ HERFD XAS and EXAFS. <i>Catalysis Science and Technology</i> , 2012 , 2, 373-378	5.5	29
92	A highly active and synergistic Pt/Mo ₂ C/Al ₂ O ₃ catalyst for water-gas shift reaction. <i>Molecular Catalysis</i> , 2018 , 455, 38-47	3.3	29

91	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, 1938-49	3.4	28
90	Industrial biochar systems for atmospheric carbon removal: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 3023-3055	13.3	28
89	Flash-Sintering and Characterization of La _{0.8} Sr _{0.2} Ga _{0.8} Mg _{0.2} O ₃ -Electrolytes for Solid Oxide Fuel Cells. <i>Electrochimica Acta</i> , 2016 , 196, 487-495	6.7	27
88	Techno-economic evaluation of biogas production from food waste via anaerobic digestion. <i>Scientific Reports</i> , 2020 , 10, 15719	4.9	27
87	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	10.4	26
86	Biogas reforming using renewable wind energy and induction heating. <i>Catalysis Today</i> , 2015 , 242, 129-138	3.3	25
85	Acid-catalyzed hydrolysis of cellulose and cellulosic waste using a microwave reactor system. <i>RSC Advances</i> , 2011 , 1, 839	3.7	25
84	Robust partial least squares regression: Part I, algorithmic developments. <i>Journal of Chemometrics</i> , 2008 , 22, 1-13	1.6	25
83	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	16.7	24
82	Assessment of the energy recovery potential of waste Photovoltaic (PV) modules. <i>Scientific Reports</i> , 2019 , 9, 5267	4.9	24
81	An effective three-dimensional ordered mesoporous ZnCo ₂ O ₄ as electrocatalyst for Li-O ₂ batteries. <i>Materials Letters</i> , 2015 , 158, 84-87	3.3	24
80	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	8.9	24
79	Mild temperature palladium-catalyzed ammoxidation of ethanol to acetonitrile. <i>Applied Catalysis A: General</i> , 2015 , 506, 261-267	5.1	24
78	Dilute phosphoric acid-catalysed hydrolysis of municipal bio-waste wood shavings using autoclave parr reactor system. <i>Bioresource Technology</i> , 2011 , 102, 9076-82	11	24
77	Kinetic Study of the Metal Triflate Catalyzed Benzoylation of Anisole in an Ionic Liquid. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 6640-6647	3.9	24
76	A study of fluid properties and microfiltration characteristics of room temperature ionic liquids [C ₁₀ -min][NTf ₂] and N8881[NTf ₂] and their polar solvent mixtures. <i>Separation and Purification Technology</i> , 2006 , 51, 185-192	8.3	24
75	Silver-Modified Al ₂ O ₃ Catalyst for DME Production. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 25018-25032	3.2	23
74	Ultradispersed Nanoarchitecture of LiV ₃ O ₈ Nanoparticle/Reduced Graphene Oxide with High-Capacity and Long-Life Lithium-Ion Battery Cathodes. <i>Scientific Reports</i> , 2016 , 6, 19843	4.9	23

73	Synthesis of Pr _{0.6} Sr _{0.4} FeO _{3-x} Ce _{0.9} Pr _{0.1} O ₂ 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	6.7	22
72	Evaluation and mechanistic investigation of a AuPd alloy catalyst for the hydrocarbon selective catalytic reduction (HC-SCR) of NO _x . <i>Applied Catalysis B: Environmental</i> , 2014 , 147, 864-870	21.8	22
71	A design strategy of large grain lithium-rich layered oxides for lithium-ion batteries cathode. <i>Electrochimica Acta</i> , 2015 , 160, 131-138	6.7	21
70	Comparison of mass transfer effects in the heterogeneously catalysed hydrogenation of phenyl acetylene in heptane and an ionic liquid. <i>Chemical Engineering Science</i> , 2006 , 61, 6995-7006	4.4	21
69	Liquid-Liquid Equilibria of Ionic Liquids-Water-Acetic Acid Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 653-664	2.8	20
68	Application of halohydrocarbons for the re-dispersion of gold particles. <i>Catalysis Science and Technology</i> , 2014 , 4, 729	5.5	20
67	Enhancing Liquid-Phase Olefin-Paraffin Separations Using Novel Silver-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 28-36	2.8	19
66	Surface modification of LiV ₃ O ₈ nanosheets via layer-by-layer self-assembly for high-performance rechargeable lithium batteries. <i>Journal of Power Sources</i> , 2014 , 257, 319-324	8.9	19
65	Synthesis of 3-(4-tert-butylphenyl)-2-propen-1-one, a precursor to Lilial [®] , via an aldol condensation in an ionic liquid. <i>Green Chemistry</i> , 2005 , 7, 224-229	10	19
64	Circular economy approach of enhanced bifunctional catalytic system of CaO/CeO ₂ for biodiesel production from waste loquat seed oil with life cycle assessment study. <i>Energy Conversion and Management</i> , 2021 , 236, 114040	10.6	19
63	Yolk-Shell Germanium@Polypyrrole Architecture with Precision Expansion Void Control for Lithium Ion Batteries. <i>IScience</i> , 2018 , 9, 521-531	6.1	19
62	Characterisation of Robust Combustion Catalyst from Aluminium Foil Waste. <i>ChemistrySelect</i> , 2018 , 3, 1545-1550	1.8	18
61	Development of a QSPR correlation for the parachor of 1,3-dialkyl imidazolium based ionic liquids. <i>Fluid Phase Equilibria</i> , 2009 , 283, 31-37	2.5	18
60	Enzymatic catalysis and electrostatic process intensification for processing of natural oils. <i>Chemical Engineering Journal</i> , 2008 , 135, 25-32	14.7	17
59	Hydrogen production, storage, utilisation and environmental impacts: a review. <i>Environmental Chemistry Letters</i> , 1	13.3	17
58	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	17
57	Enhanced durability of LiO ₂ batteries employing vertically standing Ti nanowire array supported cathodes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4009-4014	13	16
56	Friedel-Crafts Benzoylation of Anisole in Ionic Liquids: Catalysis, Separation, and Recycle Studies. <i>Organic Process Research and Development</i> , 2008 , 12, 1156-1163	3.9	16

55	Investigation of Sc doped Sr ₂ Fe _{1.5} Mo _{0.5} O ₆ as a cathode material for intermediate temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2017 , 343, 237-245	8.9	16
54	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	2.9	15
53	Physicochemical Characterization and Kinetic Modeling Concerning Combustion of Waste Berry Pomace. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 17573-17586	8.3	15
52	Batch and continuous biogas production from grass silage liquor. <i>Bioresource Technology</i> , 2011 , 102, 10922-8	11	14
51	Strategies to achieve a carbon neutral society: a review.. <i>Environmental Chemistry Letters</i> , 2022 , 1-34	13.3	14
50	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	13
49	Selective hydration of dihydromyrcene in ionic liquids. <i>Green Chemistry</i> , 2010 , 12, 628	10	13
48	Evaluation of strontium-site-deficient Sr ₂ Fe _{1.4} Co _{0.1} Mo _{0.5} O ₆ -based perovskite oxides as intermediate temperature solid oxide fuel cell cathodes. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 9538-9546	6.7	13
47	Cross-validators framework for optimal parameter estimation of KPCA and KPLS models. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017 , 167, 196-207	3.8	12
46	Self-cleaning perovskite type catalysts for the dry reforming of methane. <i>Chinese Journal of Catalysis</i> , 2014 , 35, 1337-1346	11.3	12
45	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	5.9	12
44	Sandwich nanoarchitecture of LiV ₃ O ₈ /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	13	12
43	Palladium-catalyzed liquid-phase hydrogenation/hydrogenolysis of disulfides. <i>Journal of Catalysis</i> , 2007 , 249, 93-101	7.3	12
42	MoS ₂ -based nanocomposites: synthesis, structure, and applications in water remediation and energy storage: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 3645-3681	13.3	12
41	Upcycling food waste digestate for energy and heavy metal remediation applications. <i>Resources Conservation & Recycling X</i> , 2019 , 3, 100015	3.9	11
40	Co-tape casting fabrication, field assistant sintering and evaluation of a coke resistant La _{0.2} Sr _{0.7} TiO ₃ Ni/YSZ functional gradient anode supported solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 12790-12797	6.7	11
39	Batch to continuous photocatalytic degradation of phenol using TiO ₂ and Au-Pd nanoparticles supported on TiO ₂ . <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 6382-6389	6.8	11
38	Anchored monodispersed silicon and sulfur nanoparticles on graphene for high-performance lithiated silicon-sulfur battery. <i>Energy Storage Materials</i> , 2019 , 23, 284-291	19.4	10

37	Achieving high specific capacity of lithium-ion battery cathodes by modification with NiO radicals and oxygen-containing functional groups. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24636-24644	13	10
36	Influence of trace substances on methanation catalysts used in dynamic biogas upgrading. <i>Bioresource Technology</i> , 2015 , 178, 319-322	11	10
35	Top-down synthesis of iron fluoride/reduced graphene nanocomposite for high performance lithium-ion battery. <i>Electrochimica Acta</i> , 2019 , 313, 497-504	6.7	9
34	Co ₉ S ₈ 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	3.7	9
33	Preparation and characterization of Pr _{0.6} Sr _{0.4} FeO _{3-x} Ce _{0.9} Pr _{0.1} O ₂ nanofiber structured composite cathode for IT-SOFCs. <i>Ceramics International</i> , 2016 , 42, 9311-9314	5.1	8
32	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	19.4	8
31	Fabrication and evaluation of NiO/Y ₂ O ₃ -stabilized-ZrO ₂ hollow fibers for anode-supported micro-tubular solid oxide fuel cells. <i>Ceramics International</i> , 2016 , 42, 8559-8564	5.1	8
30	Type 3 Porous Liquids for the Separation of Ethane and Ethene. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 932-936	9.5	8
29	Improved electrochemical performance of Sr ₂ Fe _{1.5} Mo _{0.4} Nb _{0.1} O _{6-x} M _{0.2} Ce _{0.8} O ₂ 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	6.7	7
28	Robust partial least squares regression: Part II, new algorithm and benchmark studies. <i>Journal of Chemometrics</i> , 2008 , 22, 14-22	1.6	7
27	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 , 1-101	13.3	7
26	Hierarchical graphene-scaffolded mesoporous germanium dioxide nanostructure for high-performance flexible lithium-ion batteries. <i>Energy Storage Materials</i> , 2020 , 29, 198-206	19.4	6
25	Fabrication and characterization of SSZ tape cast electrolyte-supported solid oxide fuel cells. <i>Ceramics International</i> , 2016 , 42, 5523-5529	5.1	6
24	Moving from Batch to Continuous Operation for the Liquid Phase Dehydrogenation of Tetrahydrocarbazole. <i>Organic Process Research and Development</i> , 2014 , 18, 392-401	3.9	6
23	Fermentable sugars recovery from lignocellulosic waste-newspaper by catalytic hydrolysis. <i>Environmental Technology (United Kingdom)</i> , 2013 , 34, 3005-16	2.6	6
22	Engineered magnetic oxides nanoparticles as efficient sorbents for wastewater remediation: a review. <i>Environmental Chemistry Letters</i> , 2013 , 1	13.3	6
21	Is the Fischer-Tropsch Conversion of Biogas-Derived Syngas to Liquid Fuels Feasible at Atmospheric Pressure?. <i>Energies</i> , 2019 , 12, 1031	3.1	5
20	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	2.9	5

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