

Magda Titirici

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

274
papers

27,926
citations

81
h-index

164
g-index

300
ext. papers

31,859
ext. citations

10.8
avg, IF

7.58
L-index

#	Paper	IF	Citations
274	Dual-Metal Atom Electrocatalysts: Theory, Synthesis, Characterization, and Applications (Adv. Energy Mater. 3/2022). <i>Advanced Energy Materials</i> , 2022 , 12, 2270010	21.8	
273	Metal coordination in CN-like materials towards dual atom catalysts for oxygen reduction.. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 6023-6030	13	1
272	Screening Heteroatom Configurations for Reversible Sloping Capacity Promises High-Power Na-Ion Batteries.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	8
271	Beyond Li-ion batteries: performance, materials diversification, and sustainability. <i>One Earth</i> , 2022 , 5, 207-211	8.1	3
270	Elucidation of the Solid Electrolyte Interphase Formation Mechanism in Micro-Mesoporous Hard-Carbon Anodes (Adv. Mater. Interfaces 8/2022). <i>Advanced Materials Interfaces</i> , 2022 , 9, 2270040	4.6	
269	Dual-Metal Atom Electrocatalysts: Theory, Synthesis, Characterization, and Applications. <i>Advanced Energy Materials</i> , 2022 , 12, 2102715	21.8	12
268	Enhancement of the electrocatalytic activity for the oxygen reduction reaction of boron-doped reduced graphene oxide via ultrasonic treatment. <i>International Journal of Hydrogen Energy</i> , 2021 , 47, 5462-5462	6.7	2
267	Ultrafast synthesis of hard carbon anodes for sodium-ion batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	9
266	Monolithic Carbon Spherogels as Freestanding Electrodes for Supercapacitors. <i>ACS Applied Energy Materials</i> , 2021 , 4, 11183-11193	6.1	1
265	Engineering the Electrochemical Interface of Oxygen Reduction Electrocatalysts with Ionic Liquids: A Review. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000062	1.6	1
264	2021 roadmap on lithium sulfur batteries. <i>JPhys Energy</i> , 2021 , 3, 031501	4.9	32
263	High-Density Lignin-Derived Carbon Nanofiber Supercapacitors with Enhanced Volumetric Energy Density. <i>Advanced Science</i> , 2021 , 8, e2100016	13.6	17
262	Photoelectrochemical imaging system with high spatiotemporal resolution for visualizing dynamic cellular responses. <i>Biosensors and Bioelectronics</i> , 2021 , 180, 113121	11.8	5
261	Facet Engineering to Regulate Surface States of Topological Crystalline Insulator Bismuth Rhombic Dodecahedrons for Highly Energy Efficient Electrochemical CO Reduction. <i>Advanced Materials</i> , 2021 , 33, e2008373	24	22
260	Investigating the effect of edge and basal plane surface functionalisation of carbonaceous anodes for alkali metal (Li/Na/K) ion batteries. <i>Carbon</i> , 2021 , 177, 226-243	10.4	7
259	2021 roadmap for sodium-ion batteries. <i>JPhys Energy</i> , 2021 , 3, 031503	4.9	24
258	Designer uniform Li plating/stripping through lithium-cobalt alloying hierarchical scaffolds for scalable high-performance lithium-metal anodes. <i>Journal of Energy Chemistry</i> , 2021 , 52, 385-392	12	12

257	The impact of having an oxygen-rich microporous surface in carbon electrodes for high-power aqueous supercapacitors. <i>Journal of Energy Chemistry</i> , 2021 , 53, 36-48	12	12
256	Cobalt Nitride Anchored on Nitrogen-Rich Carbons for Efficient Carbon Dioxide Reduction with Visible Light. <i>Applied Catalysis B: Environmental</i> , 2021 , 280, 119454	21.8	22
255	Electrospinning as a route to advanced carbon fibre materials for selected low-temperature electrochemical devices: A review. <i>Journal of Energy Chemistry</i> , 2021 , 59, 492-529	12	14
254	Atomic Arrangement Modulation in CoFe Nanoparticles Encapsulated in N-Doped Carbon Nanostructures for Efficient Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 3771-3781	9.5	11
253	Towards a mechanistic understanding of particle shrinkage during biomass pyrolysis via synchrotron X-ray microtomography and in-situ radiography. <i>Scientific Reports</i> , 2021 , 11, 2656	4.9	5
252	Carbon Composite Anodes with Tunable Microstructures for Potassium-Ion Batteries. <i>Batteries and Supercaps</i> , 2021 , 4, 663-670	5.6	5
251	Metal free-covalent triazine frameworks as oxygen reduction reaction catalysts □ structure Electrochemical activity relationship. <i>Catalysis Science and Technology</i> , 2021 , 11, 6191-6204	5.5	1
250	Engineering the Electrochemical Interface of Oxygen Reduction Electrocatalysts with Ionic Liquids: A Review. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2170003	1.6	1
249	Sustainable Batteries□ Quo Vadis?. <i>Advanced Energy Materials</i> , 2021 , 11, 2003700	21.8	20
248	Efficient Continuous Hydrothermal Flow Synthesis of Carbon Quantum Dots from a Targeted Biomass Precursor for On□ Off Metal Ions Nanosensing. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 2559-2569	8.3	21
247	Carbon-Dot-Enhanced Graphene Field-Effect Transistors for Ultrasensitive Detection of Exosomes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 7854-7864	9.5	17
246	Disordered carbon anodes for Na-ion batteries□ quo vadis?. <i>Science China Chemistry</i> , 2021 , 64, 1679	7.9	9
245	Bioderived and bioinspired sustainable materials. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200329	3	
244	Correlating Local Structure and Sodium Storage in Hard Carbon Anodes: Insights from Pair Distribution Function Analysis and Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14274-14286	16.4	10
243	Activated Carbon from Corncobs Doped with RuO ₂ as Biobased Electrode Material. <i>Electronic Materials</i> , 2021 , 2, 324-343	0.8	2
242	Bioderived and bioinspired sustainable materials (vol 2). <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20210214	3	
241	A life cycle assessment of hard carbon anodes for sodium-ion batteries. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200340	3	2
240	Influence of Reaction Conditions on Hydrothermal Carbonization of Fructose. <i>ChemSusChem</i> , 2021 , 14, 5271-5282	8.3	2

239	Surface Interactions during the Removal of Emerging Contaminants by Hydrochar-Based Adsorbents. <i>Molecules</i> , 2020 , 25,	4.8	8
238	Mesoporous Carbon Hollow Spheres as Efficient Electrocatalysts for Oxygen Reduction to Hydrogen Peroxide in Neutral Electrolytes. <i>ACS Catalysis</i> , 2020 , 10, 7434-7442	13.1	48
237	Electrocatalysis: 3D Carbon Materials for Efficient Oxygen and Hydrogen Electrocatalysis (Adv. Energy Mater. 11/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070047	21.8	4
236	Wet and dry? Influence of hydrothermal carbonization on the pyrolysis of spent grains. <i>Journal of Cleaner Production</i> , 2020 , 260, 121101	10.3	27
235	Nitrogen-Doped Carbon Dots/TiO ₂ Nanoparticle Composites for Photoelectrochemical Water Oxidation. <i>ACS Applied Nano Materials</i> , 2020 , 3, 3371-3381	5.6	34
234	Photocatalytic activity of 2D nanosheets of ferroelectric DionĀacobson compounds. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6564-6568	13	9
233	Disordered protein-graphene oxide co-assembly and supramolecular biofabrication of functional fluidic devices. <i>Nature Communications</i> , 2020 , 11, 1182	17.4	32
232	Recent advances in hydrothermal carbonisation: from tailored carbon materials and biochemicals to applications and bioenergy. <i>Green Chemistry</i> , 2020 , 22, 4747-4800	10	58
231	Monitoring Hydrogen Evolution Reaction Intermediates of Transition Metal Dichalcogenides via Operando Raman Spectroscopy. <i>Advanced Functional Materials</i> , 2020 , 30, 2003035	15.6	33
230	Pt single-atoms supported on nitrogen-doped carbon dots for highly efficient photocatalytic hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14690-14696	13	25
229	Heat Diffusion-Induced Gradient Energy Level in Multishell Bisulfides for Highly Efficient Photocatalytic Hydrogen Production. <i>Advanced Energy Materials</i> , 2020 , 10, 2001575	21.8	38
228	Elucidating the Effect of Planar Graphitic Layers and Cylindrical Pores on the Storage and Diffusion of Li, Na, and K in Carbon Materials. <i>Advanced Functional Materials</i> , 2020 , 30, 1908209	15.6	25
227	Recent progress on biomass-derived ecomaterials toward advanced rechargeable lithium batteries. <i>EcoMat</i> , 2020 , 2, e12019	9.4	55
226	Fractionation by Sequential Antisolvent Precipitation of Grass, Softwood, and Hardwood Lignins Isolated Using Low-Cost Ionic Liquids and Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3751-3761	8.3	22
225	Operando visualisation of battery chemistry in a sodium-ion battery by Na magnetic resonance imaging. <i>Nature Communications</i> , 2020 , 11, 2083	17.4	36
224	A diverse view of science to catalyse change: valuing diversity leads to scientific excellence, the progress of science and, most importantly, it is simply the right thing to do. We must value diversity not only in words, but also in actions. <i>Canadian Journal of Chemistry</i> , 2020 , 98, 597-600	0.9	1
223	Carbon Dots in Solar-to-Hydrogen Conversion. <i>Trends in Chemistry</i> , 2020 , 2, 623-637	14.8	24
222	Investigating the effects of activating agent morphology on the porosity and related capacitance of nanoporous carbons. <i>CrystEngComm</i> , 2020 , 22, 1560-1567	3.3	5

221	Continuous hydrothermal flow synthesis of blue-luminescent, excitation-independent nitrogen-doped carbon quantum dots as nanosensors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3270-3279	13	30
220	Local mobility in electrochemically inactive sodium in hard carbon anodes after the first cycle. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 743-749	13	17
219	Achieving high volumetric EDLC carbons via hydrothermal carbonization and cyclic activation. <i>JPhys Energy</i> , 2020 , 2, 025005	4.9	1
218	3D Carbon Materials for Efficient Oxygen and Hydrogen Electrocatalysis. <i>Advanced Energy Materials</i> , 2020 , 10, 1902494	21.8	56
217	Photochemical Construction of Nitrogen-Containing Nanocarbons for Carbon Dioxide Photoreduction. <i>ACS Catalysis</i> , 2020 , 10, 12706-12715	13.1	13
216	The role of carbon dots - derived underlayer in hematite photoanodes. <i>Nanoscale</i> , 2020 , 12, 20220-20229	7	2
215	Towards a More Sustainable Lithium-Ion Battery Future: Recycling LIBs from Electric Vehicles. <i>Batteries and Supercaps</i> , 2020 , 3, 1126-1136	5.6	7
214	Hard carbons for sodium-ion batteries and beyond. <i>Progress in Energy</i> , 2020 , 2, 042002	7.7	38
213	Solvation of NaPF ₆ in Diglyme Solution for Battery Electrolytes. <i>Batteries and Supercaps</i> , 2020 , 3, 1306-1310	5	5
212	Electrochemical oxygen reduction for H ₂ O ₂ production: catalysts, pH effects and mechanisms. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24996-25016	13	28
211	Hybrid Redox Flow Cells with Enhanced Electrochemical Performance via Binderless and Electrophoretically Deposited Nitrogen-Doped Graphene on Carbon Paper Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020 ,	9.5	8
210	A revised mechanistic model for sodium insertion in hard carbons. <i>Energy and Environmental Science</i> , 2020 , 13, 3469-3479	35.4	70
209	Soft templating production of porous carbon adsorbents for CO ₂ and H ₂ S capture. <i>Carbon</i> , 2020 , 169, 193-204	10.4	13
208	A diverse view of science to catalyse change. <i>Nature Chemistry</i> , 2020 , 12, 773-776	17.6	7
207	Hardwood versus softwood Kraft lignin precursor-product relationships in the manufacture of porous carbon nanofibers for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23543-23554	13	13
206	Towards a More Sustainable Lithium-Ion Battery Future: Recycling LIBs from Electric Vehicles. <i>Batteries and Supercaps</i> , 2020 , 3, 1125-1125	5.6	5
205	Ammonia Gas Sensor Response of a Vertical Zinc Oxide Nanorod-Gold Junction Diode at Room Temperature. <i>ACS Sensors</i> , 2020 , 5, 3568-3575	9.2	19
204	Hydrothermal Conversion of Spent Sugar Beets into High-Value Platform Molecules. <i>Molecules</i> , 2020 , 25,	4.8	5

203	A Diverse View of Science to Catalyse Change. <i>Angewandte Chemie</i> , 2020 , 132, 18462-18466	3.6	0
202	Sodium Storage Mechanism Investigations through Structural Changes in Hard Carbons. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9918-9927	6.1	21
201	A Diverse View of Science to Catalyse Change. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18306-18310	6.1	10
200	A diverse view of science to catalyse change. <i>Croatica Chemica Acta</i> , 2020 , 93, 77-81	0.8	1
199	Porous carbon nanosheets from biological nucleobase precursor as efficient pH-independent oxygen reduction electrocatalyst. <i>Carbon</i> , 2020 , 156, 179-186	10.4	26
198	Free-standing supercapacitors from Kraft lignin nanofibers with remarkable volumetric energy density. <i>Chemical Science</i> , 2019 , 10, 2980-2988	9.4	60
197	Carbon-Based Metal-Free Catalysts for Energy Storage and Environmental Remediation. <i>Advanced Materials</i> , 2019 , 31, e1806128	24	118
196	Ordered mesoporous carbons from lignin: a new class of biobased electrodes for supercapacitors. <i>Green Chemistry</i> , 2019 , 21, 550-559	10	79
195	Se-modified polymeric carbon nitride nanosheets with improved photocatalytic activities. <i>Journal of Catalysis</i> , 2019 , 375, 104-112	7.3	31
194	Sodium-Ion Batteries: Hard/Soft Carbon Composite Anodes with Synergistic Sodium Storage Performance (Adv. Funct. Mater. 24/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970164	15.6	2
193	Photocarving nitrogen vacancies in a polymeric carbon nitride for metal-free oxygen synthesis. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117794	21.8	44
192	Homogenous Meets Heterogenous and Electro-Catalysis: Iron-Nitrogen Molecular Complexes within Carbon Materials for Catalytic Applications. <i>ChemCatChem</i> , 2019 , 11, 3602-3625	5.2	16
191	Enhancing Visible-Light Hydrogen Evolution Performance of Crystalline Carbon Nitride by Defect Engineering. <i>ChemSusChem</i> , 2019 , 12, 3257-3262	8.3	66
190	Rational approach to guest confinement inside MOF cavities for low-temperature catalysis. <i>Nature Communications</i> , 2019 , 10, 1340	17.4	59
189	A review of rechargeable batteries for portable electronic devices. <i>Information Materials</i> , 2019 , 1, 6-32	23.1	400
188	The Influence of Heteroatom Dopants Nitrogen, Boron, Sulfur, and Phosphorus on Carbon Electrocatalysts for the Oxygen Reduction Reaction. <i>ChemPlusChem</i> , 2019 , 84, 457-464	2.8	27
187	Hard/Soft Carbon Composite Anodes with Synergistic Sodium Storage Performance. <i>Advanced Functional Materials</i> , 2019 , 29, 1901072	15.6	125
186	High density graphene/carbon nanosphere films for capacitive energy storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6126-6133	13	22

185	Manipulating the Optical Properties of Carbon Dots by Fine-Tuning their Structural Features. <i>ChemSusChem</i> , 2019 , 12, 4432-4441	8.3	19
184	Green and sustainable zero-waste conversion of water hyacinth () into superior magnetic carbon composite adsorbents and supercapacitor electrodes.. <i>RSC Advances</i> , 2019 , 9, 24248-24258	3.7	23
183	Free radicals formation on thermally decomposed biomass. <i>Fuel</i> , 2019 , 255, 115802	7.1	12
182	Intercalation chemistry of graphite: alkali metal ions and beyond. <i>Chemical Society Reviews</i> , 2019 , 48, 4655-4687	58.5	275
181	All-Cellulose-Based Quasi-Solid-State Sodium-Ion Hybrid Capacitors Enabled by Structural Hierarchy. <i>Advanced Functional Materials</i> , 2019 , 29, 1903895	15.6	55
180	Charge/discharge and cycling performance of flexible carbon paper electrodes in a regenerative hydrogen/vanadium fuel cell. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 30093-30107	6.7	11
179	Regulating Pore Structure of Hierarchical Porous Waste Cork-Derived Hard Carbon Anode for Enhanced Na Storage Performance. <i>Advanced Energy Materials</i> , 2019 , 9, 1902852	21.8	102
178	Boosting the Oxygen Reduction Electrocatalytic Performance of Nonprecious Metal Nanocarbons via Triple Boundary Engineering Using Protic Ionic Liquids. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11298-11305	9.5	26
177	Unveiling the role of hydrothermal carbon dots as anodes in sodium-ion batteries with ultrahigh initial coulombic efficiency. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27567-27575	13	39
176	Investigating the Effect of Reaction Time on Carbon Dot Formation, Structure, and Optical Properties. <i>ACS Omega</i> , 2019 , 4, 21658-21665	3.9	36
175	From Waste to Wealth: From Kraft Lignin to Free-standing Supercapacitors. <i>Carbon</i> , 2019 , 145, 470-480	10.4	87
174	Hard carbon derived from rice husk as low cost negative electrodes in Na-ion batteries. <i>Journal of Energy Chemistry</i> , 2019 , 29, 17-22	12	70
173	Freestanding Non-Precious Metal Electrocatalysts for Oxygen Evolution and Reduction Reactions. <i>ChemElectroChem</i> , 2018 , 5, 1786-1804	4.3	26
172	Preparation and properties of biomorphic potassium-based geopolymers (KGP)-biocarbon (CB) composite. <i>Ceramics International</i> , 2018 , 44, 12957-12964	5.1	7
171	Photoelectrochemical response of carbon dots (CDs) derived from chitosan and their use in electrochemical imaging. <i>Materials Horizons</i> , 2018 , 5, 423-428	14.4	37
170	Low-Cost Chitosan-Derived N-Doped Carbons Boost Electrocatalytic Activity of Multiwall Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2018 , 28, 1707284	15.6	55
169	Synergistic relationship between the three-dimensional nanostructure and electrochemical performance in biocarbon supercapacitor electrode materials. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 772-785	5.8	39
168	Structure and solvents effects on the optical properties of sugar-derived carbon nanodots. <i>Scientific Reports</i> , 2018 , 8, 6559	4.9	81

167	Graphene-reinforced silicon oxycarbide composites prepared by phase transfer. <i>Carbon</i> , 2018 , 139, 813-824	8.3	11
166	Correlating electrochemical impedance with hierarchical structure for porous carbon-based supercapacitors using a truncated transmission line model. <i>Electrochimica Acta</i> , 2018 , 284, 597-608	6.7	21
165	Biomass-Derived Nitrogen-Doped Carbon Aerogel Counter Electrodes for Dye Sensitized Solar Cells. <i>Materials</i> , 2018 , 11,	3.5	9
164	Integration of supercapacitors into printed circuit boards. <i>Journal of Energy Storage</i> , 2018 , 19, 28-34	7.8	11
163	New insights into the electrochemical behaviour of porous carbon electrodes for supercapacitors. <i>Journal of Energy Storage</i> , 2018 , 19, 337-347	7.8	30
162	High Performance N-Doped Carbon Electrodes Obtained via Hydrothermal Carbonization of Macroalgae for Supercapacitor Applications. <i>ChemElectroChem</i> , 2018 , 5, 2686-2693	4.3	67
161	Salt melt synthesis of curved nitrogen-doped carbon nanostructures: ORR kinetics boost. <i>Applied Surface Science</i> , 2018 , 435, 543-551	6.7	14
160	Biomass-derived electrodes for flexible supercapacitors. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2018 , 9, 18-24	7.9	46
159	Photoelectrochemical Imaging Using Carbon Dots (CDs) Derived from Chitosan. <i>Proceedings (mdpi)</i> , 2018 , 2, 778	0.3	2
158	A Review of Functional Binders in LithiumSulfur Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1802107	21.8	203
157	Engineering the Interface of Carbon Electrocatalysts at the Triple Point for Enhanced Oxygen Reduction Reaction. <i>Chemistry - A European Journal</i> , 2018 , 24, 18374-18384	4.8	39
156	A Review of Advanced Energy Materials for MagnesiumSulfur Batteries. <i>Energy and Environmental Materials</i> , 2018 , 1, 100-112	13	74
155	Hydrothermal Carbon Materials for the Oxygen Reduction Reaction 2018 , 369-401		2
154	Carbon-Nanodot Solar Cells from Renewable Precursors. <i>ChemSusChem</i> , 2017 , 10, 1004-1013	8.3	42
153	Nanoporous Materials for the Onboard Storage of Natural Gas. <i>Chemical Reviews</i> , 2017 , 117, 1796-1825	68.1	170
152	Sustainable metal-free carbogels as oxygen reduction electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16336-16343	13	21
151	Salt Templating with Pore Padding: Hierarchical Pore Tailoring towards Functionalised Porous Carbons. <i>ChemSusChem</i> , 2017 , 10, 199-209	8.3	21
150	Active sites engineering leads to exceptional ORR and OER bifunctionality in P,N Co-doped graphene frameworks. <i>Energy and Environmental Science</i> , 2017 , 10, 1186-1195	35.4	310

149	Recent advances of electrode materials for low-cost sodium-ion batteries towards practical application for grid energy storage. <i>Energy Storage Materials</i> , 2017 , 7, 130-151	19.4	351
148	A review of nanocarbons in energy electrocatalysis: Multifunctional substrates and highly active sites. <i>Journal of Energy Chemistry</i> , 2017 , 26, 1077-1093	12	220
147	Feedstocks and analysis: general discussion. <i>Faraday Discussions</i> , 2017 , 202, 497-519	3.6	2
146	Bio-based materials: general discussion. <i>Faraday Discussions</i> , 2017 , 202, 121-139	3.6	3
145	Halloysite-derived nitrogen doped carbon electrocatalysts for anion exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2017 , 372, 82-90	8.9	42
144	Oxygenophilic ionic liquids promote the oxygen reduction reaction in Pt-free carbon electrocatalysts. <i>Materials Horizons</i> , 2017 , 4, 895-899	14.4	45
143	Connecting carbon porosity with dispersibility and friability. <i>Carbon</i> , 2017 , 112, 117-129	10.4	6
142	S, N-Co-Doped Graphene-Nickel Cobalt Sulfide Aerogel: Improved Energy Storage and Electrocatalytic Performance. <i>Advanced Science</i> , 2017 , 4, 1600214	13.6	169
141	Soy protein directed hydrothermal synthesis of porous carbon aerogels for electrocatalytic oxygen reduction. <i>Carbon</i> , 2016 , 96, 622-630	10.4	73
140	Oxygen Electrocatalysis: Topological Defects in Metal-Free Nanocarbon for Oxygen Electrocatalysis (Adv. Mater. 32/2016). <i>Advanced Materials</i> , 2016 , 28, 7030-7030	24	10
139	Graphene/nitrogen-doped porous carbon sandwiches for the metal-free oxygen reduction reaction: conductivity versus active sites. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12658-12666	13	76
138	Understanding the Hydrophilicity and Water Adsorption Behavior of Nanoporous Nitrogen-Doped Carbons. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 18167-18179	3.8	38
137	Porous carbon derived from rice husks as sustainable bioresources: insights into the role of micro-/mesoporous hierarchy in hosting active species for lithium sulfur batteries. <i>Green Chemistry</i> , 2016 , 18, 5169-5179	10	117
136	Levulinic Acid Biorefineries: New Challenges for Efficient Utilization of Biomass. <i>ChemSusChem</i> , 2016 , 9, 562-82	8.3	408
135	The influence of pore size distribution on the oxygen reduction reaction performance in nitrogen doped carbon microspheres. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2581-2589	13	158
134	Towards effective small scale microbial fuel cells for energy generation from urine. <i>Electrochimica Acta</i> , 2016 , 192, 89-98	6.7	99
133	Activated carbons with high nitrogen content by a combination of hydrothermal carbonization with activation. <i>Microporous and Mesoporous Materials</i> , 2016 , 226, 125-132	5.3	53
132	Microcellular Electrode Material for Microbial Bioelectrochemical Systems Synthesized by Hydrothermal Carbonization of Biomass Derived Precursors. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2508-2516	8.3	17

131	Bio-inspired carbon electro-catalysts for the oxygen reduction reaction. <i>Journal of Energy Chemistry</i> , 2016 , 25, 228-235	12	19
130	Local Platinum Environments in a Solid Analogue of the Molecular Periana Catalyst. <i>ACS Catalysis</i> , 2016 , 6, 2332-2340	13.1	40
129	Sulphur-doped ordered mesoporous carbon with enhanced electrocatalytic activity for the oxygen reduction reaction. <i>Journal of Energy Chemistry</i> , 2016 , 25, 566-570	12	38
128	Meso- and microporous soft templated hydrothermal carbons for dye removal from water. <i>Green Chemistry</i> , 2016 , 18, 1137-1146	10	97
127	Hard Carbon Microtubes Made from Renewable Cotton as High-Performance Anode Material for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1600659	21.8	488
126	Topological Defects in Metal-Free Nanocarbon for Oxygen Electrocatalysis. <i>Advanced Materials</i> , 2016 , 28, 6845-51	24	522
125	Fe-N-Doped Carbon Capsules with Outstanding Electrochemical Performance and Stability for the Oxygen Reduction Reaction in Both Acid and Alkaline Conditions. <i>ACS Nano</i> , 2016 , 10, 5922-32	16.7	345
124	Efficient metal-free N-doped mesoporous carbon catalysts for ORR by a template-free approach. <i>Carbon</i> , 2016 , 106, 179-187	10.4	149
123	In Situ Synthesis of Fluorescent Carbon Dots/Polyelectrolyte Nanocomposite Microcapsules with Reduced Permeability and Ultrasound Sensitivity. <i>ACS Nano</i> , 2016 , 10, 9608-9615	16.7	53
122	Electrochemical behaviour of activated carbons obtained via hydrothermal carbonization. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15558-15567	13	33
121	Structural and Morphological Changes in Kraft Lignin during Hydrothermal Carbonization. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 2737-2745	8.3	83
120	Hydrothermal Carbonization of Digestate in the Presence of Zeolite: Process Efficiency and Composite Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 2967-2974	8.3	42
119	Versatile Cellulose-Based Carbon Aerogel for the Removal of Both Cationic and Anionic Metal Contaminants from Water. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25875-83	9.5	97
118	Effect of Nitrogen Doping on the CO ₂ Adsorption Behavior in Nanoporous Carbon Structures: A Molecular Simulation Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22310-22321	3.8	78
117	Sustainable carbon materials. <i>Chemical Society Reviews</i> , 2015 , 44, 250-90	58.5	826
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