

Magda Titirici

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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	Engineering carbon materials from the hydrothermal carbonization process of biomass. <i>Advanced Materials</i> , 2010 , 22, 813-28	24	1282
273	Hydrothermal carbonization of biomass residuals: a comparative review of the chemistry, processes and applications of wet and dry pyrolysis. <i>Biofuels</i> , 2011 , 2, 71-106	2	1013
272	Hollow Carbon Nanospheres with Superior Rate Capability for Sodium-Based Batteries. <i>Advanced Energy Materials</i> , 2012 , 2, 873-877	21.8	915
271	Chemistry and materials options of sustainable carbon materials made by hydrothermal carbonization. <i>Chemical Society Reviews</i> , 2010 , 39, 103-16	58.5	857
270	Superior storage performance of a Si@SiO _x /C nanocomposite as anode material for lithium-ion batteries. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 1645-9	16.4	855
269	Sustainable carbon materials. <i>Chemical Society Reviews</i> , 2015 , 44, 250-90	58.5	826
268	Nitrogen-containing hydrothermal carbons with superior performance in supercapacitors. <i>Advanced Materials</i> , 2010 , 22, 5202-6	24	789
267	Black perspectives for a green future: hydrothermal carbons for environment protection and energy storage. <i>Energy and Environmental Science</i> , 2012 , 5, 6796	35.4	631
266	Hydrothermal carbon from biomass: a comparison of the local structure from poly- to monosaccharides and pentoses/hexoses. <i>Green Chemistry</i> , 2008 , 10, 1204	10	609
265	A Generalized Synthesis of Metal Oxide Hollow Spheres Using a Hydrothermal Approach. <i>Chemistry of Materials</i> , 2006 , 18, 3808-3812	9.6	586
264	Topological Defects in Metal-Free Nanocarbon for Oxygen Electrocatalysis. <i>Advanced Materials</i> , 2016 , 28, 6845-51	24	522
263	A one-pot hydrothermal synthesis of sulfur and nitrogen doped carbon aerogels with enhanced electrocatalytic activity in the oxygen reduction reaction. <i>Green Chemistry</i> , 2012 , 14, 1515	10	494
262	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
261	Morphological and structural differences between glucose, cellulose and lignocellulosic biomass derived hydrothermal carbons. <i>Green Chemistry</i> , 2011 , 13, 3273	10	483
260	Carboxylate-Rich Carbonaceous Materials via One-Step Hydrothermal Carbonization of Glucose in the Presence of Acrylic Acid. <i>Chemistry of Materials</i> , 2009 , 21, 484-490	9.6	428
259	One-step solvothermal synthesis of a carbon@TiO ₂ dyade structure effectively promoting visible-light photocatalysis. <i>Advanced Materials</i> , 2010 , 22, 3317-21	24	411
258	Levulinic Acid Biorefineries: New Challenges for Efficient Utilization of Biomass. <i>ChemSusChem</i> , 2016 , 9, 562-82	8.3	408

257	Facile One-Pot Synthesis of Mesoporous SnO ₂ Microspheres via Nanoparticles Assembly and Lithium Storage Properties. <i>Chemistry of Materials</i> , 2008 , 20, 1227-1229	9.6	401
256	A review of rechargeable batteries for portable electronic devices. <i>Information Materials</i> , 2019 , 1, 6-32	23.1	400
255	A Direct Synthesis of Mesoporous Carbons with Bicontinuous Pore Morphology from Crude Plant Material by Hydrothermal Carbonization. <i>Chemistry of Materials</i> , 2007 , 19, 4205-4212	9.6	391
254	Back in the black: hydrothermal carbonization of plant material as an efficient chemical process to treat the CO ₂ problem?. <i>New Journal of Chemistry</i> , 2007 , 31, 787	3.6	361
253	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
252	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
251	Structural Characterization of Hydrothermal Carbon Spheres by Advanced Solid-State MAS 13C NMR Investigations. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9644-9654	3.8	333
250	Sustainable nitrogen-doped carbonaceous materials from biomass derivatives. <i>Carbon</i> , 2010 , 48, 3778-3787	17.4	332
249	Hydrothermal conversion of biomass to fuels and energetic materials. <i>Current Opinion in Chemical Biology</i> , 2013 , 17, 515-21	9.7	325
248	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
247	Intercalation chemistry of graphite: alkali metal ions and beyond. <i>Chemical Society Reviews</i> , 2019 , 48, 4655-4687	58.5	275
246	Biomass-derived carbon quantum dot sensitizers for solid-state nanostructured solar cells. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4463-8	16.4	259
245	Functional hollow carbon nanospheres by latex templating. <i>Journal of the American Chemical Society</i> , 2010 , 132, 17360-3	16.4	235
244	Material derived from hydrothermal carbonization: Effects on plant growth and arbuscular mycorrhiza. <i>Applied Soil Ecology</i> , 2010 , 45, 238-242	5	231
243	Rice husk-derived carbon anodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5269-73	9.3	230
242	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
241	Replication and Coating of Silica Templates by Hydrothermal Carbonization. <i>Advanced Functional Materials</i> , 2007 , 17, 1010-1018	15.6	220
240	Carbohydrate-derived hydrothermal carbons: a thorough characterization study. <i>Langmuir</i> , 2012 , 28, 12373-83	4	212

- 239 Hydrothermal carbon from biomass: structural differences between hydrothermal and pyrolyzed carbons via ^{13}C solid state NMR. *Langmuir*, **2011**, 27, 14460-71 4 209
- 238 A Review of Functional Binders in Lithium-Sulfur Batteries. *Advanced Energy Materials*, **2018**, 8, 1802107 21.8 203
- 237 Selective partial hydrogenation of hydroxy aromatic derivatives with palladium nanoparticles supported on hydrophilic carbon. *Chemical Communications*, **2008**, 999-1001 5.8 202
- 236 High-performance CO_2 sorbents from algae. *RSC Advances*, **2012**, 2, 12792 3.7 194
- 235 Hollow carbon nanospheres with a high rate capability for lithium-based batteries. *ChemSusChem*, **2012**, 5, 400-3 8.3 190
- 234 Thin Molecularly Imprinted Polymer Films via Reversible Addition-Fragmentation Chain Transfer Polymerization. *Chemistry of Materials*, **2006**, 18, 1773-1779 9.6 182
- 233 Naturally inspired nitrogen doped porous carbon. *Journal of Materials Chemistry*, **2009**, 19, 8645 179
- 232 A sustainable synthesis of nitrogen-doped carbon aerogels. *Green Chemistry*, **2011**, 13, 2428 10 172
- 231 Nanoporous Materials for the Onboard Storage of Natural Gas. *Chemical Reviews*, **2017**, 117, 1796-1825 68.1 170
- 230 S, N-Co-Doped Graphene-Nickel Cobalt Sulfide Aerogel: Improved Energy Storage and Electrocatalytic Performance. *Advanced Science*, **2017**, 4, 1600214 13.6 169
- 229 Porous polymers: enabling solutions for energy applications. *Macromolecular Rapid Communications*, **2009**, 30, 221-36 4.8 168
- 228 Tailoring the porosity of chemically activated hydrothermal carbons: Influence of the precursor and hydrothermal carbonization temperature. *Carbon*, **2013**, 62, 346-355 10.4 165
- 227 Production of low-cost adsorbents with tunable surface chemistry by conjunction of hydrothermal carbonization and activation processes. *Microporous and Mesoporous Materials*, **2013**, 165, 127-133 5.3 162
- 226 The influence of pore size distribution on the oxygen reduction reaction performance in nitrogen doped carbon microspheres. *Journal of Materials Chemistry A*, **2016**, 4, 2581-2589 13 158
- 225 Carbon dioxide capture on amine-rich carbonaceous materials derived from glucose. *ChemSusChem*, **2010**, 3, 840-5 8.3 158
- 224 Hydrothermal carbon-based nanostructured hollow spheres as electrode materials for high-power lithium-sulfur batteries. *Physical Chemistry Chemical Physics*, **2013**, 15, 6080-7 3.6 156
- 223 Efficient metal-free N-doped mesoporous carbon catalysts for ORR by a template-free approach. *Carbon*, **2016**, 106, 179-187 10.4 149
- 222 Aminated hydrophilic ordered mesoporous carbons. *Journal of Materials Chemistry*, **2007**, 17, 3412 145

221	A one-pot hydrothermal synthesis of tunable dual heteroatom-doped carbon microspheres. <i>Green Chemistry</i> , 2012 , 14, 741	10	142
220	Hydrothermal carbons from hemicellulose-derived aqueous hydrolysis products as electrode materials for supercapacitors. <i>ChemSusChem</i> , 2013 , 6, 374-82	8.3	138
219	Borax-Mediated Formation of Carbon Aerogels from Glucose. <i>Advanced Functional Materials</i> , 2012 , 22, 3254-3260	15.6	136
218	Hydrothermal synthesis of microalgae-derived microporous carbons for electrochemical capacitors. <i>Journal of Power Sources</i> , 2014 , 267, 26-32	8.9	131
217	Always look on the "light" side of life: sustainable carbon aerogels. <i>ChemSusChem</i> , 2014 , 7, 670-89	8.3	128
216	HardSoft Carbon Composite Anodes with Synergistic Sodium Storage Performance. <i>Advanced Functional Materials</i> , 2019 , 29, 1901072	15.6	125
215	Hydrothermal carbon spheres containing silicon nanoparticles: synthesis and lithium storage performance. <i>Chemical Communications</i> , 2008 , 3759-61	5.8	124
214	Original design of nitrogen-doped carbon aerogels from sustainable precursors: application as metal-free oxygen reduction catalysts. <i>Green Chemistry</i> , 2013 , 15, 2514	10	123
213	Carbon-Based Metal-Free Catalysts for Energy Storage and Environmental Remediation. <i>Advanced Materials</i> , 2019 , 31, e1806128	24	118
212	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
211	Ordered Carbohydrate-Derived Porous Carbons. <i>Chemistry of Materials</i> , 2011 , 23, 4882-4885	9.6	117
210	Hydrothermal nanocasting: Synthesis of hierarchically porous carbon monoliths and their application in lithium-sulfur batteries. <i>Carbon</i> , 2013 , 61, 245-253	10.4	115
209	Renewable nitrogen-doped hydrothermal carbons derived from microalgae. <i>ChemSusChem</i> , 2012 , 5, 1838-40	8.3	108
208	One-step hydrothermal synthesis of nitrogen-doped nanocarbons: albumine directing the carbonization of glucose. <i>ChemSusChem</i> , 2010 , 3, 246-53	8.3	107
207	Hierarchical porous carbonaceous materials via ionothermal carbonization of carbohydrates. <i>Journal of Materials Chemistry</i> , 2011 , 21, 7434		106
206	Carbon aerogels from bacterial nanocellulose as anodes for lithium ion batteries. <i>RSC Advances</i> , 2014 , 4, 17549	3.7	105
205	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
204	Towards effective small scale microbial fuel cells for energy generation from urine. <i>Electrochimica Acta</i> , 2016 , 192, 89-98	6.7	99

203	Solvothermal carbon-doped TiO ₂ photocatalyst for the enhanced methylene blue degradation under visible light. <i>Applied Catalysis A: General</i> , 2010 , 390, 175-182	5.1	99
202	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
201	Meso- and microporous soft templated hydrothermal carbons for dye removal from water. <i>Green Chemistry</i> , 2016 , 18, 1137-1146	10	97
200	Hydrothermal synthesis of imidazole functionalized carbon spheres and their application in catalysis. <i>Catalysis Today</i> , 2010 , 150, 115-118	5.3	91
199	Hierarchically Imprinted Stationary Phases: Mesoporous Polymer Beads Containing Surface-Confined Binding Sites for Adenine. <i>Chemistry of Materials</i> , 2002 , 14, 21-23	9.6	87
198	From Waste to Wealth: From Kraft Lignin to Free-standing Supercapacitors. <i>Carbon</i> , 2019 , 145, 470-480	10.4	87
197	Structural Insights on Nitrogen-Containing Hydrothermal Carbon Using Solid-State Magic Angle Spinning ¹³ C and ¹⁵ N Nuclear Magnetic Resonance. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 8976-8982	3.8	85
196	Synthesis and evaluation of new propazine-imprinted polymer formats for use as stationary phases in liquid chromatography. <i>Analytica Chimica Acta</i> , 2005 , 542, 38-46	6.6	85
195	Structural and Morphological Changes in Kraft Lignin during Hydrothermal Carbonization. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 2737-2745	8.3	83
194	Polypyrrole-derived mesoporous nitrogen-doped carbons with intrinsic catalytic activity in the oxygen reduction reaction. <i>RSC Advances</i> , 2013 , 3, 9904	3.7	82
193	Structure and solvents effects on the optical properties of sugar-derived carbon nanodots. <i>Scientific Reports</i> , 2018 , 8, 6559	4.9	81
192	Ordered mesoporous carbons from lignin: a new class of biobased electrodes for supercapacitors. <i>Green Chemistry</i> , 2019 , 21, 550-559	10	79
191	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
190	LiFePO ₄ mesocrystals for lithium-ion batteries. <i>Small</i> , 2011 , 7, 1127-35	11	78
189	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
188	Esterification of levulinic acid into ethyl levulinate catalysed by sulfonated hydrothermal carbons. <i>Chinese Journal of Catalysis</i> , 2014 , 35, 929-936	11.3	75
187	A Review of Advanced Energy Materials for Magnesium-Sulfur Batteries. <i>Energy and Environmental Materials</i> , 2018 , 1, 100-112	13	74
186	Soy protein directed hydrothermal synthesis of porous carbon aerogels for electrocatalytic oxygen reduction. <i>Carbon</i> , 2016 , 96, 622-630	10.4	73

185	Hierarchical Imprinting Using Crude Solid Phase Peptide Synthesis Products as Templates. <i>Chemistry of Materials</i> , 2003 , 15, 822-824	9.6	73
184	Porous carbohydrate-based materials via hard templating. <i>ChemSusChem</i> , 2010 , 3, 188-94	8.3	72
183	A revised mechanistic model for sodium insertion in hard carbons. <i>Energy and Environmental Science</i> , 2020 , 13, 3469-3479	35.4	70
182	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
181	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
180	Template Synthesis of Carbonaceous Tubular Nanostructures with Tunable Surface Properties. <i>Chemistry of Materials</i> , 2010 , 22, 6590-6597	9.6	67
179	Enhancing Visible-Light Hydrogen Evolution Performance of Crystalline Carbon Nitride by Defect Engineering. <i>ChemSusChem</i> , 2019 , 12, 3257-3262	8.3	66
178	Direct methane oxidation over Pt-modified nitrogen-doped carbons. <i>Chemical Communications</i> , 2013 , 49, 240-2	5.8	65
177	Ein Si@SiO _x /C-Nanokomposit als Anodenmaterial für Lithiumionenbatterien mit hoher Speicherleistung. <i>Angewandte Chemie</i> , 2008 , 120, 1669-1673	3.6	65
176	Characterization of biomass and its derived char using ¹³ C-solid state nuclear magnetic resonance. <i>Green Chemistry</i> , 2014 , 16, 4839-4869	10	64
175	Free-standing supercapacitors from Kraft lignin nanofibers with remarkable volumetric energy density. <i>Chemical Science</i> , 2019 , 10, 2980-2988	9.4	60
174	Rational approach to guest confinement inside MOF cavities for low-temperature catalysis. <i>Nature Communications</i> , 2019 , 10, 1340	17.4	59
173	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
172	Chromatographic comparison of bupivacaine imprinted polymers prepared in crushed monolith, microsphere, silica-based composite and capillary monolith formats. <i>Journal of Chromatography A</i> , 2007 , 1160, 215-26	4.5	56
171	3D Carbon Materials for Efficient Oxygen and Hydrogen Electrocatalysis. <i>Advanced Energy Materials</i> , 2020 , 10, 1902494	21.8	56
170	Recent progress on biomass-derived ecomaterials toward advanced rechargeable lithium batteries. <i>EcoMat</i> , 2020 , 2, e12019	9.4	55
169	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
168	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

167	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
166	Peptide recognition via hierarchical imprinting. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 378, 1913-214	1.4	53
165	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
164	Flexible Coral-like Carbon Nanoarchitectures via a Dual Block Copolymer Latex Templating Approach. <i>Chemistry of Materials</i> , 2013 , 25, 4781-4790	9.6	52
163	Supercapacitive Behavior of Two Glucose-Derived Microporous Carbons: Direct Pyrolysis versus Hydrothermal Carbonization. <i>ChemElectroChem</i> , 2014 , 1, 2138-2145	4.3	50
162	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
161	Emulsion-templated macroporous carbons synthesized by hydrothermal carbonization and their application for the enzymatic oxidation of glucose. <i>ChemSusChem</i> , 2013 , 6, 701-10	8.3	48
160	Sustainable nitrogen-doped carbon latexes with high electrical and thermal conductivity. <i>Polymer</i> , 2010 , 51, 4540-4546	3.9	46
159	Biomass-derived electrodes for flexible supercapacitors. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2018 , 9, 18-24	7.9	46
158	Oxygenophilic ionic liquids promote the oxygen reduction reaction in Pt-free carbon electrocatalysts. <i>Materials Horizons</i> , 2017 , 4, 895-899	14.4	45
157	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
156	Carbon-Nanodot Solar Cells from Renewable Precursors. <i>ChemSusChem</i> , 2017 , 10, 1004-1013	8.3	42
155	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
154	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
153	Thermoresponsive polymers in liquid chromatography. <i>Analytical Methods</i> , 2012 , 4, 34-43	3.2	42
152	PEGylated Chromatography: Efficient Bioseparation on Silica Monoliths Grafted with Smart Biocompatible Polymers. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 1869-72	9.5	41
151	Local Platinum Environments in a Solid Analogue of the Molecular Periana Catalyst. <i>ACS Catalysis</i> , 2016 , 6, 2332-2340	13.1	40
150	Progress and Perspectives in Photo- and Electrochemical-Oxidation of Biomass for Sustainable Chemicals and Hydrogen Production. <i>Advanced Energy Materials</i> , 2101180	21.8	40

149	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
148	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
147	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
146	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
145	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
144	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
143	Hard carbons for sodium-ion batteries and beyond. <i>Progress in Energy</i> , 2020 , 2, 042002	7.7	38
142	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
141	An improved grafting technique for producing imprinted thin film composite beads. <i>Polymer Chemistry</i> , 2012 , 3, 1033	4.9	37
140	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
139	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
138	Hydrothermal synthesis of highly porous carbon monoliths from carbohydrates and phloroglucinol. <i>RSC Advances</i> , 2013 , 3, 17088	3.7	35
137	Coal from carbohydrates: The "chimie douce" of carbon. <i>Comptes Rendus Chimie</i> , 2010 , 13, 167-173	2.7	35
136	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
135	Electrochemical behaviour of activated carbons obtained via hydrothermal carbonization. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15558-15567	13	33
134	Monitoring Hydrogen Evolution Reaction Intermediates of Transition Metal Dichalcogenides via Operando Raman Spectroscopy. <i>Advanced Functional Materials</i> , 2020 , 30, 2003035	15.6	33
133	Disordered protein-graphene oxide co-assembly and supramolecular biofabrication of functional fluidic devices. <i>Nature Communications</i> , 2020 , 11, 1182	17.4	32
132	2021 roadmap on lithium sulfur batteries. <i>JPhys Energy</i> , 2021 , 3, 031501	4.9	32

131	Se-modified polymeric carbon nitride nanosheets with improved photocatalytic activities. <i>Journal of Catalysis</i> , 2019 , 375, 104-112	7.3	31
130	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
129	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	12.9	30
128	Thin thermo-responsive polymer films onto the pore system of chromatographic beads via reversible addition-fragmentation chain transfer polymerization. <i>New Journal of Chemistry</i> , 2008 , 32, 1409	3.6	28
127	Thermo-responsive monolithic materials. <i>Journal of Chromatography A</i> , 2008 , 1203, 160-7	4.5	28
126	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
125	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
124	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
123	Carbohydrate-Derived Nanoarchitectures: On a Synergistic Effect Toward an Improved Performance in Lithium Sulfur Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 126-129	8.3	27
122	Freestanding Non-Precious Metal Electrocatalysts for Oxygen Evolution and Reduction Reactions. <i>ChemElectroChem</i> , 2018 , 5, 1786-1804	4.3	26
121	Mesoporous graphite nanoflakes via ionothermal carbonization of fructose and their use in dye removal. <i>RSC Advances</i> , 2014 , 4, 37423-37430	3.7	26
120	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
119	Porous carbon nanosheets from biological nucleobase precursor as efficient pH-independent oxygen reduction electrocatalyst. <i>Carbon</i> , 2020 , 156, 179-186	10.4	26
118	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
117	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
116	Carbon Dots in Solar-to-Hydrogen Conversion. <i>Trends in Chemistry</i> , 2020 , 2, 623-637	14.8	24
115	2021 roadmap for sodium-ion batteries. <i>JPhys Energy</i> , 2021 , 3, 031503	4.9	24
114	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

113	Methane conversion on PtRu nanoparticles alloy supported on hydrothermal carbon. <i>Applied Catalysis A: General</i> , 2010 , 386, 140-146	5.1	23
112	High density graphene-carbon nanosphere films for capacitive energy storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6126-6133	13	22
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