

# Robert Mokaya

## List of Publications by Citations

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11,733  
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L-index

#	Paper	IF	Citations
160	Energy storage applications of activated carbons: supercapacitors and hydrogen storage. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1250-1280	35.4	987
159	Enhanced hydrogen storage capacity of high surface area zeolite-like carbon materials. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 1673-9	16.4	509
158	Hydrothermal Carbonization of Abundant Renewable Natural Organic Chemicals for High-Performance Supercapacitor Electrodes. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 356-361	21.8	470
157	Polypyrrole-Derived Activated Carbons for High-Performance Electrical Double-Layer Capacitors with Ionic Liquid Electrolyte. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 827-834	15.6	359
156	Synthesis of Ordered Mesoporous Carbon and Nitrogen-Doped Carbon Materials with Graphitic Pore Walls via a Simple Chemical Vapor Deposition Method. <i>Advanced Materials</i> , <b>2004</b> , 16, 1553-1558	24	331
155	Superior CO <sub>2</sub> Adsorption Capacity on N-doped, High-Surface-Area, Microporous Carbons Templated from Zeolite. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 678-683	21.8	297
154	A porous framework polymer based on a zinc(II) 4,4'-bipyridine-2,6,2',6'-tetracarboxylate: synthesis, structure, and "zeolite-like" behaviors. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 10745-53	16.4	281
153	Templated nanoscale porous carbons. <i>Nanoscale</i> , <b>2010</b> , 2, 639-59	7.7	277
152	Zeolite ZSM-5 with Unique Supermicropores Synthesized Using Mesoporous Carbon as a Template. <i>Advanced Materials</i> , <b>2004</b> , 16, 727-732	24	259
151	Preparation and hydrogen storage properties of zeolite-templated carbon materials nanocast via chemical vapor deposition: effect of the zeolite template and nitrogen doping. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 18424-31	3.4	217
150	Ordered Mesoporous Carbon Hollow Spheres Nanocast Using Mesoporous Silica via Chemical Vapor Deposition. <i>Advanced Materials</i> , <b>2004</b> , 16, 886-891	24	189
149	Biomass-derived activated carbon with simultaneously enhanced CO <sub>2</sub> uptake for both pre and post combustion capture applications. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 280-289	13	178
148	Generalized and Facile Synthesis Approach to N-Doped Highly Graphitic Mesoporous Carbon Materials. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 1553-1560	9.6	174
147	Carbon nanotube/titanium dioxide (CNT/TiO <sub>2</sub> ) core-shell nanocomposites with tailored shell thickness, CNT content and photocatalytic/photoelectrocatalytic properties. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 110, 50-57	21.8	160
146	Improving the Stability of Mesoporous MCM-41 Silica via Thicker More Highly Condensed Pore Walls. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 10204-10208	3.4	157
145	Hydrogen storage in high surface area carbons: experimental demonstration of the effects of nitrogen doping. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 16493-9	16.4	153
144	Acidity and catalytic activity of the mesoporous aluminosilicate molecular sieve MCM-41. <i>Catalysis Letters</i> , <b>1996</b> , 37, 113-120	2.8	143

143	Ultrastable Mesoporous Aluminosilicates by Grafting Routes. <i>Angewandte Chemie - International Edition</i> , <b>1999</b> , 38, 2930-2934	16.4	140
142	Post-synthesis grafting of Al onto MCM-41. <i>Chemical Communications</i> , <b>1997</b> , 2185-2186	5.8	135
141	Ultrahigh surface area polypyrrole-based carbons with superior performance for hydrogen storage. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 2930	35.4	132
140	Mesostructured Hollow Spheres of Graphitic N-Doped Carbon Nanocast from Spherical Mesoporous Silica. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 19293-19298	3.4	125
139	Highly ordered mesoporous silicon oxynitride materials as base catalysts. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 2639-44	16.4	124
138	Hollow spheres of crystalline porous metal oxides: A generalized synthesis route via nanocasting with mesoporous carbon hollow shells. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 3126		121
137	Oxygen-rich microporous carbons with exceptional hydrogen storage capacity. <i>Nature Communications</i> , <b>2017</b> , 8, 1545	17.4	117
136	Cigarette butt-derived carbons have ultra-high surface area and unprecedented hydrogen storage capacity. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 2552-2562	35.4	115
135	Valorization of Lignin Waste: Carbons from Hydrothermal Carbonization of Renewable Lignin as Superior Sorbents for CO <sub>2</sub> and Hydrogen Storage. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 1658-1667	8.3	112
134	Physicochemical Characterisation and Catalytic Activity of Primary Amine Templated Aluminosilicate Mesoporous Catalysts. <i>Journal of Catalysis</i> , <b>1997</b> , 172, 211-221	7.3	106
133	Bifunctional hybrid mesoporous organoaluminosilicates with molecularly ordered ethylene groups. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 790-8	16.4	106
132	Al Content Dependent Hydrothermal Stability of Directly Synthesized Aluminosilicate MCM-41. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 8279-8286	3.4	103
131	On the synthesis and characterization of ZSM-5/MCM-48 aluminosilicate composite materials. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 863		101
130	Generalized Mechanochemical Synthesis of Biomass-Derived Sustainable Carbons for High Performance CO <sub>2</sub> Storage. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500867	21.8	96
129	High Surface Area Silicon Carbide Whiskers and Nanotubes Nanocast Using Mesoporous Silica. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 3877-3884	9.6	94
128	Optimization of the Pore Structure of Biomass-Based Carbons in Relation to Their Use for CO <sub>2</sub> Capture under Low- and High-Pressure Regimes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 1623-1633	9.5	93
127	Superactivated carbide-derived carbons with high hydrogen storage capacity. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 223-227	35.4	93
126	Biomass to porous carbon in one step: directly activated biomass for high performance CO <sub>2</sub> storage. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 12330-12339	13	89

125	Is N-Doping in Porous Carbons Beneficial for CO <sub>2</sub> Storage? Experimental Demonstration of the Relative Effects of Pore Size and N-Doping. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 994-1001	9.6	87
124	Microporous activated carbon aerogels via a simple subcritical drying route for CO <sub>2</sub> capture and hydrogen storage. <i>Microporous and Mesoporous Materials</i> , <b>2013</b> , 179, 151-156	5.3	85
123	A simplified synthesis of N-doped zeolite-templated carbons, the control of the level of zeolite-like ordering and its effect on hydrogen storage properties. <i>Carbon</i> , <b>2011</b> , 49, 844-853	10.4	84
122	Ordered Mesoporous Carbon Monoliths: CVD Nanocasting and Hydrogen Storage Properties. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 10035-10039	3.8	84
121	Aluminosilicate mesoporous molecular sieves with enhanced stability obtained by reacting MCM-41 with aluminium chlorohydrate. <i>Chemical Communications</i> , <b>1998</b> , 1839-1840	5.8	82
120	Simultaneous Control of Morphology and Porosity in Nanoporous Carbon: Graphitic Mesoporous Carbon Nanorods and Nanotubes with Tunable Pore Size. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 140-148	9.6	81
119	Compaction: A mechanochemical approach to carbons with superior porosity and exceptional performance for hydrogen and CO <sub>2</sub> storage. <i>Nano Energy</i> , <b>2015</b> , 16, 173-185	17.1	76
118	Supercritical fluid-mediated alumination of mesoporous silica and its beneficial effect on hydrothermal stability. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 10636-7	16.4	76
117	Are mesoporous silicas and aluminosilicas assembled from zeolite seeds inherently hydrothermally stable? Comparative evaluation of MCM-48 materials assembled from zeolite seeds. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 3427		75
116	Efficient post-synthesis alumination of MCM-41 using aluminium chlorohydrate containing Al polycations. <i>Journal of Materials Chemistry</i> , <b>1999</b> , 9, 555-561		72
115	Low temperature synthesized carbon nanotube superstructures with superior CO <sub>2</sub> and hydrogen storage capacity. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 5148-5161	13	67
114	On the Hydrothermal Stability of Mesoporous Aluminosilicate MCM-48 Materials. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 6954-6960	3.4	67
113	A family of microporous carbons prepared via a simple metal salt carbonization route with high selectivity for exceptional gravimetric and volumetric post-combustion CO <sub>2</sub> capture. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 14696	13	63
112	Synthesis of mesoporous silica hollow spheres in supercritical CO <sub>2</sub> /water systems. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 1751		63
111	Hydrogen Storage in High Surface Area Carbons with Identical Surface Areas but Different Pore Sizes: Direct Demonstration of the Effects of Pore Size. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 25734-25740	3.8	61
110	Enhancement of Hydrogen Storage Capacity of Zeolite-Templated Carbons by Chemical Activation. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 11314-11319	3.8	61
109	Synthesis of acidic aluminosilicate mesoporous molecular sieves using primary amines. <i>Chemical Communications</i> , <b>1996</b> , 981	5.8	61
108	Supercritical fluids: A route to palladium-aerogel nanocomposites. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 1212		60

107	Evolution of optimal porosity for improved hydrogen storage in templated zeolite-like carbons. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 1773	35.4	59
106	Porous clay heterostructures with enhanced acidity obtained from acid-activated clays. <i>Chemical Communications</i> , <b>2001</b> , 2100-1	5.8	57
105	A simple flash carbonization route for conversion of biomass to porous carbons with high CO <sub>2</sub> storage capacity. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 12393-12403	13	54
104	Exceptional gravimetric and volumetric hydrogen storage for densified zeolite templated carbons with high mechanical stability. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 427-434	35.4	54
103	Ordered mesoporous MCM-41 silicon oxynitride solid base materials with high nitrogen content: synthesis, characterisation and catalytic evaluation. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 2507		52
102	Mesoporous boron nitride and boron-nitride-carbon materials from mesoporous silica templates. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 235-241		50
101	Aligned N-Doped Carbon Nanotube Bundles Prepared via CVD Using Zeolite Substrates. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 4502-4508	9.6	50
100	Molecularly Ordered Ethylene-Bridged Periodic Mesoporous Organosilica Spheres with Tunable Micrometer Sizes. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 1141-1148	9.6	49
99	Hollow shells of high surface area graphitic N-doped carbon composites nanocast using zeolite templates. <i>Microporous and Mesoporous Materials</i> , <b>2005</b> , 86, 69-80	5.3	49
98	Hydrothermally stable restructured mesoporous silica. <i>Chemical Communications</i> , <b>2001</b> , 933-934	5.8	49
97	Grafting of Al onto purely siliceous mesoporous molecular sieves. <i>Physical Chemistry Chemical Physics</i> , <b>1999</b> , 1, 207-213	3.6	48
96	Synthesis of Mesoporous Aluminosilicates with Enhanced Stability and Ion-Exchange Capacity via a Secondary Crystallization Route. <i>Advanced Materials</i> , <b>2000</b> , 12, 1681-1685	24	45
95	High surface area metal salt templated carbon aerogels via a simple subcritical drying route: preparation and CO <sub>2</sub> uptake properties. <i>RSC Advances</i> , <b>2013</b> , 3, 17677	3.7	44
94	Acidity and catalytic activity of aluminosilicate mesoporous molecular sieves prepared using primary amines. <i>Chemical Communications</i> , <b>1996</b> , 983	5.8	44
93	Preparation of ultrahigh surface area porous carbons templated using zeolite 13X for enhanced hydrogen storage. <i>Progress in Natural Science: Materials International</i> , <b>2013</b> , 23, 308-316	3.6	42
92	Influence of pore wall thickness on the steam stability of Al-grafted MCM-41. <i>Chemical Communications</i> , <b>2001</b> , 633-634	5.8	42
91	Compaction of a zirconium metal-organic framework (UiO-66) for high density hydrogen storage applications. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 23569-23577	13	42
90	Aluminosilicate MCM-48 materials with enhanced stability via simple post-synthesis treatment in water. <i>Microporous and Mesoporous Materials</i> , <b>2004</b> , 68, 1-10	5.3	40

89	A method for the synthesis of high quality large crystal MCM-41. <i>Chemical Communications</i> , <b>1999</b> , 51-52	5.8	39
88	Preparation of alumina-pillared acid-activated clays and their use as chlorophyll adsorbents. <i>Journal of Materials Chemistry</i> , <b>1993</b> , 3, 381		38
87	Facile and high yield synthesis of mesostructured MCM-48 silica crystals. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 657-659		35
86	The influence of template extraction on the properties of primary amine templated aluminosilicate mesoporous molecular sieves. <i>Journal of Materials Chemistry</i> , <b>1998</b> , 8, 2819-2826		33
85	Enhanced hydrothermal stability of Al-grafted MCM-48 prepared via various alumination routes. <i>Microporous and Mesoporous Materials</i> , <b>2004</b> , 74, 179-188	5.3	33
84	Alumination pathways to mesoporous aluminosilicates with high-temperature hydrothermal stability. <i>ChemPhysChem</i> , <b>2002</b> , 3, 360-3	3.2	33
83	High surface area ethylene-bridged mesoporous and supermicroporous organosilica spheres. <i>Microporous and Mesoporous Materials</i> , <b>2005</b> , 86, 231-242	5.3	33
82	The silica garden as a Brønsted acid catalyst. <i>Physical Chemistry Chemical Physics</i> , <b>1999</b> , 1, 4669-4672	3.6	33
81	Bridging the performance gap between electric double-layer capacitors and batteries with high-energy/high-power carbon nanotube-based electrodes. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 14586-14594	13	33
80	Surfactant mediated control of pore size and morphology for molecularly ordered ethylene-bridged periodic mesoporous organosilica. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 3889-94	3.4	32
79	Nanocasting of High Surface Area Mesoporous Ga <sub>2</sub> O <sub>3</sub> and GaN Semiconductor Materials. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 4080-4086	9.6	31
78	CVD Nanocasting Routes to Zeolite-Templated Carbons for Hydrogen Storage. <i>Chemical Vapor Deposition</i> , <b>2010</b> , 16, 322-328		30
77	Restructuring of mesoporous silica: high quality large crystal MCM-41 via a seeded recrystallisation route. <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 1139-1145		30
76	Tuning the acidic and textural properties of ordered mesoporous silicas for their application as catalysts in the etherification of glycerol with isobutene. <i>Catalysis Today</i> , <b>2014</b> , 227, 171-178	5.3	28
75	Characterisation and hydrogen storage of Pt-doped carbons templated by Pt-exchanged zeolite Y. <i>Microporous and Mesoporous Materials</i> , <b>2011</b> , 142, 716-724	5.3	28
74	Periodic mesoporous organosilica mesophases are versatile precursors for the direct preparation of mesoporous silica/carbon composites, carbon and silicon carbide materials. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 3417		28
73	Hydrothermally-induced morphological transformation of mesoporous MCM-41 silica. <i>Microporous and Mesoporous Materials</i> , <b>2001</b> , 44-45, 119-127	5.3	28
72	Insertion of extra-framework Al into the framework of mesoporous MCM-41 aluminosilicates. <i>Chemical Communications</i> , <b>2000</b> , 1891-1892	5.8	28

71	The Mechanism of Chlorophyll Adsorption on Acid-Activated Clays. <i>Journal of Solid State Chemistry</i> , <b>1994</b> , 111, 157-163	3.3	28
70	Templating of carbon in zeolites under pressure: synthesis of pelletized zeolite templated carbons with improved porosity and packing density for superior gas (CO <sub>2</sub> and H <sub>2</sub> ) uptake properties. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 14254-14266	13	28
69	Crystalline-like molecularly ordered mesoporous aluminosilicates derived from aluminosilica-surfactant mesophases via benign template removal. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 9122-31	3.4	27
68	High yield and high packing density porous carbon for unprecedented CO <sub>2</sub> capture from the first attempt at activation of air-carbonized biomass. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 13324-13335	13	27
67	Steam stable mesoporous silica MCM-41 stabilized by trace amounts of Al. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 1902-8	9.5	26
66	Ultra-high surface area mesoporous carbons for colossal pre combustion CO <sub>2</sub> capture and storage as materials for hydrogen purification. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 1414-1424	5.8	26
65	A CVD route for the preparation of templated and activated carbons for gas storage applications using zeolitic imidazolate frameworks (ZIFs) as template. <i>Microporous and Mesoporous Materials</i> , <b>2014</b> , 195, 258-265	5.3	25
64	Mesoporous Aluminosilicates from a Zeolite BEA Recipe. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 2491-2498	9.6	25
63	The effect of Al content of zeolite template on the properties and hydrogen storage capacity of zeolite templated carbons. <i>Microporous and Mesoporous Materials</i> , <b>2011</b> , 144, 140-147	5.3	25
62	Supercritical CO <sub>2</sub> mediated incorporation of Pd onto templated carbons: a route to optimizing the Pd particle size and hydrogen uptake density. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 5639-47	9.5	24
61	The Effect of Particle Size on Aluminosilicate MCM-41 Catalysts Prepared via Grafting Routes. <i>Journal of Catalysis</i> , <b>1999</b> , 186, 470-477	7.3	24
60	Mesoporous MCM-48 Aluminosilica Oxynitrides: Synthesis and Characterization of Bifunctional Solid Acid/Base Materials. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 1455-1462	3.8	22
59	Crystalline mesoporous silicates from layered precursors. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 1383		22
58	Layered double hydroxides as templates for nanocasting porous N-doped graphitic carbons via chemical vapour deposition. <i>Microporous and Mesoporous Materials</i> , <b>2007</b> , 106, 147-154	5.3	22
57	Formation of Molecularly Ordered Layered Mesoporous Silica via Phase Transformation of Silicate-Surfactant Composites. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 11361-11367	3.4	22
56	Ultrastabile mesopore Aluminosilicate durch Pfropfsynthesen. <i>Angewandte Chemie</i> , <b>1999</b> , 111, 3079-3083	3.6	21
55	Chlorophyll adsorption by alumina-pillared acid-activated clays. <i>JAOCs, Journal of the American Oil Chemists Society</i> , <b>1993</b> , 70, 241-244	1.8	21
54	New perspectives on supercritical methane adsorption in shales and associated thermodynamics. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 78, 186-197	6.3	20

53	High temperature synthesis of exceptionally stable pure silica MCM-41 and stabilisation of calcined mesoporous silicas via refluxing in water. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 18872		20
52	Photophysical properties of [60]fullerenes and phthalocyanines embedded in ordered mesoporous silica films annealed at various temperatures. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 5079-84	3.4	20
51	To stir or not to stir: formation of hierarchical superstructures of molecularly ordered ethylene-bridged periodic mesoporous organosilicas. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 395-400		19
50	Predictable and targeted activation of biomass to carbons with high surface area density and enhanced methane storage capacity. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 2967-2978	35.4	19
49	Valorization of lignin waste: high electrochemical capacitance of lignin-derived carbons in aqueous and ionic liquid electrolytes. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 18701-18711	13	19
48	New insights into the spatial distribution of aluminium in various mesoporous aluminosilicates. <i>ChemPhysChem</i> , <b>2002</b> , 3, 892-6	3.2	18
47	On the extended recrystallisation of mesoporous silica: characterisation of restructured pure silica MCM-41. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 3027-3033		18
46	Pre-mixed precursors for modulating the porosity of carbons for enhanced hydrogen storage: towards predicting the activation behaviour of carbonaceous matter. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 17466-17479	13	17
45	One step room temperature synthesis of ordered mesoporous silica SBA-15 mediated by cellulose nanoparticles. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 320-325		17
44	Experimental Demonstration of Dynamic Temperature-Dependent Behavior of UiO-66 Metal-Organic Framework: Compaction of Hydroxylated and Dehydroxylated Forms of UiO-66 for High-Pressure Hydrogen Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 24883-24894	9.5	16
43	A study of the behaviour of mesoporous silicas in OH/CTABr/H <sub>2</sub> O systems: phase dependent stabilisation, dissolution or semi-pseudomorphic transformation. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 3112		16
42	Super-microporous aluminosilicate catalysts via primary amine templating. <i>Chemical Communications</i> , <b>2001</b> , 1016-1017	5.8	16
41	Super-micropore/small mesopore composite pillared silicate and aluminosilicate materials from crystalline layered silicate Na-RUB-18. <i>Microporous and Mesoporous Materials</i> , <b>2011</b> , 143, 104-114	5.3	15
40	Al <sub>x</sub> N <sub>y</sub> -grafted MCM-41 Catalysts: Probing the Influence of Temperature on the Alumination Process. <i>Journal of Catalysis</i> , <b>2000</b> , 193, 103-107	7.3	15
39	Observation of some pore wall ordering in mesoporous silica. <i>Chemical Communications</i> , <b>2001</b> , 1092-1093	3.8	15
38	Synthesis of hollow spherical mesoporous N-doped carbon materials with graphitic framework. <i>Studies in Surface Science and Catalysis</i> , <b>2005</b> , 565-572	1.8	13
37	Integrated biomass thermochemical conversion for clean energy production: Process design and economic analysis. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 103093	6.8	12
36	Molecularly ordered layered aluminosilicate-surfactant mesophases and their conversion to hydrothermally stable mesoporous aluminosilicates. <i>Microporous and Mesoporous Materials</i> , <b>2006</b> , 94, 295-303	5.3	12



35	Template-directed stepwise post-synthesis alumination of MCM-41 mesoporous silica. <i>Chemical Communications</i> , <b>2000</b> , 1541-1542	5.8	12
34	The effects of metakaolinization and fused-metakaolinization on zeolites synthesized from quartz rich natural clays. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 290, 109668	5.3	11
33	Pore Characteristics for Efficient CO Storage in Hydrated Carbons. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> ,	9.5	11
32	Stability of Pillared Clays: Effect of Compaction on the Physicochemical Properties of Al-Pillared Clays. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 263-269	9.6	11
31	Aligned Bundles of Carbon Nanotubes Are Easily Grown on As-Synthesized Mesoporous Silicate Substrates. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 15157-15162	3.8	10
30	Highly Ordered Mesoporous Silicon Oxynitride Materials as Base Catalysts. <i>Angewandte Chemie</i> , <b>2003</b> , 115, 2743-2748	3.6	10
29	Probing the effect of the carbonisation process on the textural properties and morphology of mesoporous carbons. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 113, 378-384	5.3	9
28	On the Shelf Life and Aging Stability of Mesoporous Silica: Insights on Thermodynamically Stable MCM-41 Structure from Assessment of 12-Year-Old Samples. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 4450-4458	8.6	7
27	Influence of alumination pathway on the steam stability of Al-grafted MCM-41. <i>Studies in Surface Science and Catalysis</i> , <b>2003</b> , 146, 435-438	1.8	7
26	Porous N-doped carbon with various hollow-cored morphologies nanocast using zeolite templates via chemical vapour deposition. <i>Studies in Surface Science and Catalysis</i> , <b>2005</b> , 156, 573-580	1.8	7
25	Strongly acidic mesoporous aluminosilicates prepared via hydrothermal restructuring of a crystalline layered silicate. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 7799-7809	13	6
24	Biofuel and valuable products recovery from Napier grass pre-processing: Process design and economic analysis. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 102962	6.8	6
23	Potential of Bioenergy in Rural Ghana. <i>Sustainability</i> , <b>2021</b> , 13, 381	3.6	6
22	A hydrothermal modelling approach to water vapour sorption isotherm design for mesoporous humidity buffers. <i>Microporous and Mesoporous Materials</i> , <b>2015</b> , 211, 113-123	5.3	5
21	Self-Assembled Ultralarge Millimeter-Sized Graphitic Carbon Rods Grown on Mesoporous Silica Substrate. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 6317-6322	9.6	5
20	Synthesis And Characterization Of Pillared Acid-Activated Montmorillonites. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 233, 81		5
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13	Co-pelletization of a zirconium-based metal-organic framework (UiO-66) with polymer nanofibers for improved useable capacity in hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 8607-8620	6.7	4
12	Hygrothermal simulation-informed design of mesoporous desiccants for optimised energy efficiency of mixed mode air conditioning systems. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 17290-17303 <sup>13</sup>		3
11	Templated Porous Carbon Materials: Recent Developments <b>2010</b> , 217-264		3
10	Synthesis and characterisation of super-microporous aluminosilicates prepared via primary amine templating. <i>Studies in Surface Science and Catalysis</i> , <b>2002</b> , 141, 141-150	1.8	3
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