

Vitaliy L Budarin

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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.

151 papers	8,228 citations	44 h-index	88 g-index
159 ext. papers	9,126 ext. citations	8.9 avg, IF	6.08 L-index

#	Paper	IF	Citations
151	Supported metal nanoparticles on porous materials. Methods and applications. <i>Chemical Society Reviews</i> , 2009 , 38, 481-94	58.5	981
150	Sustainable carbon materials. <i>Chemical Society Reviews</i> , 2015 , 44, 250-90	58.5	826
149	Tuneable porous carbonaceous materials from renewable resources. <i>Chemical Society Reviews</i> , 2009 , 38, 3401-18	58.5	337
148	Food waste biomass: a resource for high-value chemicals. <i>Green Chemistry</i> , 2013 , 15, 307	10	324
147	Highly efficient aerobic oxidation of alcohols using a recoverable catalyst: the role of mesoporous channels of SBA-15 in stabilizing palladium nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 4776-9	16.4	272
146	Green chemistry and the biorefinery: a partnership for a sustainable future. <i>Green Chemistry</i> , 2006 , 8, 853	10	261
145	Starbons: new starch-derived mesoporous carbonaceous materials with tunable properties. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 3782-6	16.4	211
144	Palladium nanoparticles on polysaccharide-derived mesoporous materials and their catalytic performance in C-C coupling reactions. <i>Green Chemistry</i> , 2008 , 10, 382-387	10	186
143	Green, transition-metal-free aerobic oxidation of alcohols using a highly durable supported organocatalyst. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 7210-3	16.4	180
142	Direct microwave-assisted hydrothermal depolymerization of cellulose. <i>Journal of the American Chemical Society</i> , 2013 , 135, 11728-31	16.4	165
141	Microwave and slow pyrolysis biochar—comparison of physical and functional properties. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 100, 41-48	6	151
140	Versatile mesoporous carbonaceous materials for acid catalysis. <i>Chemical Communications</i> , 2007 , 634-6	5.8	145
139	Microwave assisted decomposition of cellulose: A new thermochemical route for biomass exploitation. <i>Bioresource Technology</i> , 2010 , 101, 3776-9	11	138
138	The preparation of high-grade bio-oils through the controlled, low temperature microwave activation of wheat straw. <i>Bioresource Technology</i> , 2009 , 100, 6064-8	11	133
137	Always look on the "light" side of life: sustainable carbon aerogels. <i>ChemSusChem</i> , 2014 , 7, 670-89	8.3	128
136	Use of green chemical technologies in an integrated biorefinery. <i>Energy and Environmental Science</i> , 2011 , 4, 471-479	35.4	124
135	The importance of being porous: polysaccharide-derived mesoporous materials for use in dye adsorption. <i>RSC Advances</i> , 2012 , 2, 8992	3.7	120

134	Towards a bio-based industry: benign catalytic esterifications of succinic acid in the presence of water. <i>Chemistry - A European Journal</i> , 2007 , 13, 6914-9	4.8	105
133	Valorisation of orange peel residues: waste to biochemicals and nanoporous materials. <i>ChemSusChem</i> , 2012 , 5, 1694-7	8.3	98
132	Glycerol transformations on polysaccharide derived mesoporous materials. <i>Applied Catalysis B: Environmental</i> , 2008 , 82, 157-162	21.8	95
131	Identification of high performance solvents for the sustainable processing of graphene. <i>Green Chemistry</i> , 2017 , 19, 2550-2560	10	94
130	Applications of nanoparticles in biomass conversion to chemicals and fuels. <i>Green Chemistry</i> , 2014 , 16, 573-584	10	87
129	Conventional and microwave-assisted pyrolysis of biomass under different heating rates. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014 , 107, 276-283	6	87
128	Aryl alkynylation versus alkyne homocoupling: unprecedented selectivity switch in Cu, phosphine and solvent-free heterogeneous Pd-catalysed couplings. <i>Tetrahedron</i> , 2005 , 61, 9860-9868	2.4	85
127	Pectin-derived porous materials. <i>Chemistry - A European Journal</i> , 2010 , 16, 1326-35	4.8	78
126	Microwave-mediated pyrolysis of macro-algae. <i>Green Chemistry</i> , 2011 , 13, 2330	10	75
125	Polysaccharide-Derived Carbons for Polar Analyte Separations. <i>Advanced Functional Materials</i> , 2010 , 20, 1834-1841	15.6	75
124	Microwave assisted hydro-distillation of essential oils from wet citrus peel waste. <i>Journal of Cleaner Production</i> , 2016 , 137, 598-605	10.3	75
123	Recent Advances in the Catalytic Depolymerization of Lignin towards Phenolic Chemicals: A Review. <i>ChemSusChem</i> , 2020 , 13, 4296-4317	8.3	73
122	A Simple and Efficient Route to Active and Dispersed Silica Supported Palladium Nanoparticles. <i>Catalysis Letters</i> , 2008 , 124, 204-214	2.8	70
121	Tunable mesoporous materials from alpha-D-polysaccharides. <i>ChemSusChem</i> , 2008 , 1, 408-11	8.3	70
120	Catalytic performance of carbonaceous materials in the esterification of succinic acid. <i>Catalysis Communications</i> , 2008 , 9, 1709-1714	3.2	67
119	A new perspective in bio-refining: levoglucosenone and cleaner lignin from waste biorefinery hydrolysis lignin by selective conversion of residual saccharides. <i>Energy and Environmental Science</i> , 2016 , 9, 2571-2574	35.4	65
118	Tunable mesoporous materials optimised for aqueous phase esterifications. <i>Green Chemistry</i> , 2007 , 9, 992	10	64
117	Starbons: New Starch-Derived Mesoporous Carbonaceous Materials with Tunable Properties. <i>Angewandte Chemie</i> , 2006 , 118, 3866-3870	3.6	62

116	Chiral manganese(III) Schiff base complexes anchored onto activated carbon as enantioselective heterogeneous catalysts for alkene epoxidation. <i>Carbon</i> , 2005 , 43, 2096-2105	10.4	61
115	Highly Efficient Aerobic Oxidation of Alcohols Using a Recoverable Catalyst: The Role of Mesoporous Channels of SBA-15 in Stabilizing Palladium Nanoparticles. <i>Angewandte Chemie</i> , 2006 , 118, 4894-4897	3.6	58
114	Industrial Applications of C-C Coupling Reactions. <i>Current Organic Synthesis</i> , 2010 , 7, 614-627	1.9	57
113	Green, Transition-Metal-Free Aerobic Oxidation of Alcohols Using a Highly Durable Supported Organocatalyst. <i>Angewandte Chemie</i> , 2007 , 119, 7348-7351	3.6	57
112	The potential of microwave technology for the recovery, synthesis and manufacturing of chemicals from bio-wastes. <i>Catalysis Today</i> , 2015 , 239, 80-89	5.3	53
111	Organo-functionalized activated carbons as supports for the covalent attachment of a chiral manganese(III) salen complex. <i>Carbon</i> , 2007 , 45, 1951-1964	10.4	53
110	Production of bio-fuels and chemicals by microwave-assisted, catalytic, hydrothermal liquefaction (MAC-HTL) of a mixture of pine and spruce biomass. <i>Green Chemistry</i> , 2019 , 21, 284-299	10	51
109	A sustainable freeze-drying route to porous polysaccharides with tailored hierarchical meso- and macroporosity. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 774-9	4.8	50
108	Importance of Micropore-Mesopore Interfaces in Carbon Dioxide Capture by Carbon-Based Materials. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9173-7	16.4	48
107	Efficient Method of Lignin Isolation Using Microwave-Assisted Acidolysis and Characterization of the Residual Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 3768-3774	8.3	44
106	Supercritical extraction of waxes and lipids from biomass: A valuable first step towards an integrated biorefinery. <i>Journal of Cleaner Production</i> , 2018 , 177, 684-698	10.3	44
105	Low-temperature microwave-assisted pyrolysis of waste office paper and the application of bio-oil as an AI adhesive. <i>Green Chemistry</i> , 2015 , 17, 260-270	10	43
104	Microwave-assisted hydrothermal selective dissolution and utilisation of hemicellulose in <i>Phyllostachys heterocycla</i> cv. <i>pubescens</i> . <i>Green Chemistry</i> , 2017 , 19, 4889-4899	10	43
103	Torrefaction/biochar production by microwave and conventional slow pyrolysis [Comparison of energy properties. <i>GCB Bioenergy</i> , 2013 , 5, 144-152	5.6	43
102	Delicious not siliceous: expanded carbohydrates as renewable separation media for column chromatography. <i>Chemical Communications</i> , 2005 , 2903-5	5.8	42
101	Starch-derived carbonaceous mesoporous materials (Starbon®) for the selective adsorption and recovery of critical metals. <i>Green Chemistry</i> , 2015 , 17, 2146-2149	10	40
100	Low temperature microwave-assisted vs conventional pyrolysis of various biomass feedstocks. <i>Journal of Natural Gas Chemistry</i> , 2012 , 21, 270-274		40
99	Use of Starbon for the Adsorption and Desorption of Phenols. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 1311-1318	8.3	40

98	Microwave-assisted preparation of amides using a stable and reusable mesoporous carbonaceous solid acid. <i>Green Chemistry</i> , 2009 , 11, 459	10	40
97	CO ₂ gasification of bio-char derived from conventional and microwave pyrolysis. <i>Applied Energy</i> , 2015 , 157, 533-539	10.7	36
96	From waste to wealth using green chemistry. <i>Pure and Applied Chemistry</i> , 2013 , 85, 1625-1631	2.1	35
95	Mechanistic understanding of salt-assisted autocatalytic hydrolysis of cellulose. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 936-940	5.8	34
94	Controllable production of liquid and solid biofuels by doping-free, microwave-assisted, pressurised pyrolysis of hemicellulose. <i>Energy Conversion and Management</i> , 2017 , 144, 104-113	10.6	33
93	Microwave-enhanced formation of glucose from cellulosic waste. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013 , 71, 37-42	3.7	33
92	Microwave assisted extraction as an important technology for valorising orange waste. <i>New Journal of Chemistry</i> , 2014 , 38, 2278-2283	3.6	32
91	Microwave-assisted depolymerization of various types of waste lignins over two-dimensional CuO/BCN catalysts. <i>Green Chemistry</i> , 2020 , 22, 725-736	10	32
90	Molecular-level understanding of the carbonisation of polysaccharides. <i>Chemistry - A European Journal</i> , 2013 , 19, 9351-7	4.8	30
89	Production and characterization of lignin and cellulose fractions obtained from pretreated vine shoots by microwave assisted alkali treatment. <i>Bioresource Technology</i> , 2019 , 289, 121726	11	29
88	Impact of supercritical extraction on solid fuel wood pellet properties and off-gassing during storage. <i>Green Chemistry</i> , 2016 , 18, 2682-2690	10	28
87	Towards the development of a novel Bamboo-refinery concept: Selective bamboo fractionation by means of a microwave-assisted, acid-catalysed, organosolv process. <i>Energy Conversion and Management</i> , 2018 , 155, 147-160	10.6	28
86	Fast microwave-assisted acidolysis: a new biorefinery approach for the zero-waste utilisation of lignocellulosic biomass to produce high quality lignin and fermentable saccharides. <i>Faraday Discussions</i> , 2017 , 202, 351-370	3.6	27
85	Investigating the structure of biomass-derived non-graphitizing mesoporous carbons by electron energy loss spectroscopy in the transmission electron microscope and X-ray photoelectron spectroscopy. <i>Carbon</i> , 2014 , 67, 514-524	10.4	27
84	Sodium Chloride-Assisted Depolymerization of Xylo-oligomers to Xylose. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 4098-4104	8.3	26
83	Microalgae biorefinery concept based on hydrothermal microwave pyrolysis. <i>Green Chemistry</i> , 2012 , 14, 3251	10	26
82	Geminal Diol of Dihydrolevoglucosenone as a Switchable Hydrotrope: A Continuum of Green Nanostructured Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7878-7883	8.3	25
81	Starbon® acids in alkylation and acetylation reactions: Effect of the Brønsted-Lewis acidity. <i>Catalysis Communications</i> , 2011 , 12, 1471-1476	3.2	25

80	The chemical value of wheat straw combustion residues. <i>RSC Advances</i> , 2011 , 1, 523	3.7	25
79	The combined effect of plastics and food waste accelerates the thermal decomposition of refuse-derived fuels and fuel blends. <i>Fuel</i> , 2016 , 180, 424-432	7.1	25
78	Lipid production through the single-step microwave hydrolysis of macroalgae using the oleaginous yeast <i>Metschnikowia pulcherrima</i> . <i>Algal Research</i> , 2019 , 38, 101411	5	24
77	The additive free microwave hydrolysis of lignocellulosic biomass for fermentation to high value products. <i>Journal of Cleaner Production</i> , 2018 , 198, 776-784	10.3	24
76	Chemical reactions of double bonds in activated carbon: microwave and bromination methods. <i>Chemical Communications</i> , 2004 , 2736-7	5.8	24
75	Subtle Microwave-Induced Overheating Effects in an Industrial Demethylation Reaction and Their Direct Use in the Development of an Innovative Microwave Reactor. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5431-5436	16.4	23
74	Direct synthesis of Pd nanoparticles on alginic acid and seaweed supports. <i>Green Chemistry</i> , 2015 , 17, 2200-2207	10	23
73	Analysis and optimisation of a novel Bio-brewery approach: Production of bio-fuels and bio-chemicals by microwave-assisted, hydrothermal liquefaction of brewers spent grains. <i>Energy Conversion and Management</i> , 2019 , 185, 410-430	10.6	22
72	Chemicals from lignocellulosic biomass: A critical comparison between biochemical, microwave and thermochemical conversion methods. <i>Critical Reviews in Environmental Science and Technology</i> , 2021 , 51, 1479-1532	11.1	22
71	A sweet killer: mesoporous polysaccharide confined silver nanoparticles for antibacterial applications. <i>International Journal of Molecular Sciences</i> , 2011 , 12, 5782-96	6.3	19
70	Combining steam distillation with microwave-assisted pyrolysis to maximise direct production of levoglucosenone from agricultural wastes. <i>Green Chemistry</i> , 2019 , 21, 1282-1291	10	17
69	Using in vivo nickel to direct the pyrolysis of hyperaccumulator plant biomass. <i>Green Chemistry</i> , 2019 , 21, 1236-1240	10	17
68	Extraction of cones, branches, needles and bark from Norway spruce (<i>Picea abies</i>) by supercritical carbon dioxide and soxhlet extractions techniques. <i>Industrial Crops and Products</i> , 2020 , 145, 112096	5.9	16
67	Shaped mesoporous materials from fresh macroalgae. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5203	13	16
66	Polysaccharide-derived mesoporous materials (Starbon [®]) for sustainable separation of complex mixtures. <i>Faraday Discussions</i> , 2017 , 202, 451-464	3.6	14
65	A one-pot microwave-assisted NaCl/H ₂ O/GVL solvent system for cellulose conversion to 5-hydroxymethylfurfural and saccharides with in situ separation of the products. <i>Cellulose</i> , 2019 , 26, 8383-8400	5.5	14
64	Deposition of palladium nanoparticles in SBA-15 templated silica using supercritical carbon dioxide. <i>Materials Letters</i> , 2014 , 116, 408-411	3.3	14
63	Microwave-assisted catalytic depolymerization of lignin from birch sawdust to produce phenolic monomers utilizing a hydrogen-free strategy. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123490	12.8	14

62	Expanding the potential for waste polyvinyl-alcohol. <i>Green Chemistry</i> , 2009 , 11, 1332	10	13
61	The effect of wood composition and supercritical CO ₂ extraction on charcoal production in ferroalloy industries. <i>Energy</i> , 2020 , 193, 116696	7.9	13
60	Influence of Density on Microwave Pyrolysis of Cellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2916-2920	8.3	11
59	PCDDs, PCDFs and PCNs in products of microwave-assisted pyrolysis of woody biomass--Distribution among solid, liquid and gaseous phases and effects of material composition. <i>Chemosphere</i> , 2016 , 145, 193-9	8.4	11
58	Green preparation of tuneable carbon-silica composite materials from wastes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14148-14156	13	11
57	Surface energy and surface area measurements by ¹⁹ F MAS NMR of adsorbed trifluoroacetic acid. <i>Chemical Communications</i> , 2004 , 524-5	5.8	11
56	Importance of Micropore-Mesopore Interfaces in Carbon Dioxide Capture by Carbon-Based Materials. <i>Angewandte Chemie</i> , 2016 , 128, 9319-9323	3.6	11
55	Monolithic mesoporous graphitic composites as super capacitors: from Starbons to Starenes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1119-1127	13	11
54	Selective Microwave-Assisted Pyrolysis of Cellulose towards Levoglucosenone with Clay Catalysts. <i>ChemSusChem</i> , 2019 , 12, 5224	8.3	10
53	Environmental impact assessment of wheat straw based alkyl polyglucosides produced using novel chemical approaches. <i>Green Chemistry</i> , 2017 , 19, 4380-4395	10	10
52	Processed Lignin as a Byproduct of the Generation of 5-(Chloromethyl)furfural from Biomass: A Promising New Mesoporous Material. <i>ChemSusChem</i> , 2015 , 8, 4172-9	8.3	10
51	NMR and IR study of fluorobenzene and hexafluorobenzene adsorbed on alumina. <i>Langmuir</i> , 2007 , 23, 5412-8	4	10
50	New Prospective Ni-catalytic Materials. <i>Magyar Árvíz Közlemények</i> , 2000 , 62, 345-348	0	10
49	NaCl-promoted phase transition and glycosidic bond cleavage under microwave heating for energy-efficient biorefinery of rice starch. <i>Green Chemistry</i> , 2020 , 22, 7355-7365	10	10
48	Analysis and optimisation of a microwave-assisted hydrothermal process for the production of value-added chemicals from glycerol. <i>Green Chemistry</i> , 2018 , 20, 2624-2636	10	10
47	Natural Product Recovery from Bilberry (<i>Vaccinium myrtillus</i> L.) Presscake via Microwave Hydrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 3676-3685	8.3	9
46	Microwave-Assisted Immobilization of Manganese Salen Complexes: Increased Activity and Chemoselectivity in Catalytic Epoxidation. <i>ChemCatChem</i> , 2013 , 5, 895-898	5.2	9
45	Green power from starch adhesives. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8589		9

44	The Hydrophobisation of Activated Carbon Surfaces by Organic Functional Groups. <i>Adsorption Science and Technology</i> , 2000 , 18, 55-64	3.6	9
43	Evidences of starch-microwave interactions under hydrolytic and pyrolytic conditions. <i>Green Chemistry</i> , 2020 , 22, 7109-7118	10	9
42	An Interesting Class of Porous Polymer--Revisiting the Structure of Mesoporous D-Polysaccharide Gels. <i>ChemSusChem</i> , 2016 , 9, 280-8	8.3	8
41	Nanocatalysts for Biofuels 2013 , 595-614		8
40	Simple Preparation of Novel Metal-Containing Mesoporous Starches. <i>Materials</i> , 2013 , 6, 1891-1902	3.5	8
39	Microbial oil produced from the fermentation of microwave-depolymerised rapeseed meal. <i>Bioresource Technology Reports</i> , 2018 , 4, 159-165	4.1	8
38	Starbon-400-HSO ₃ : A green mesoporous carbonaceous solid acid catalyst for the Ritter reaction. <i>Catalysis Communications</i> , 2015 , 69, 170-173	3.2	7
37	Thermal investigation of molten starch <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 105, 577-581	4.1	7
36	Supercritical extraction of biomass as an effective pretreatment step for the char yield control in pyrolysis. <i>Renewable Energy</i> , 2021 , 170, 107-117	8.1	7
35	Economic and agronomic impact assessment of wheat straw based alkyl polyglucoside produced using green chemical approaches. <i>Journal of Cleaner Production</i> , 2019 , 209, 283-296	10.3	7
34	Rapid and Efficient Adsorption of Methylene Blue Dye From Aqueous Solution by Hierarchically Porous, Activated Starbons: Mechanism and Porosity Dependence. <i>Journal of Hazardous Materials</i> , 2022 , 129174	12.8	7
33	The Influence of Carrier on the Critical Phenomena in CO Oxidation over NiO. <i>Adsorption Science and Technology</i> , 2000 , 18, 609-619	3.6	6
32	Combined analytical strategies for chemical and physical characterization of tar from torrefaction of olive stone. <i>Fuel</i> , 2021 , 291, 120086	7.1	6
31	The role of surface functionality of sustainable mesoporous materials Starbon on the adsorption of toxic ammonia and sulphur gasses. <i>Sustainable Chemistry and Pharmacy</i> , 2020 , 15, 100230	3.9	5
30	19F Magic angle spinning NMR reporter molecules: empirical measures of surface shielding, polarisability and H-bonding. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 2274-83	3.6	5
29	Chemical Modification of Activated Carbons. <i>Magyar Ártudományok</i> , 2000 , 62, 349-352	0	5
28	Unravelling the mechanisms of microwave pyrolysis of biomass. <i>Chemical Engineering Journal</i> , 2022 , 430, 132975	14.7	5
27	Synthesis and application of tuneable carbon-silica composites from the microwave pyrolysis of waste paper for selective recovery of gold from acidic solutions.. <i>RSC Advances</i> , 2020 , 10, 25228-25238	3.7	4

26	Toward a Zero-Waste Biorefinery: Confocal Microscopy as a Tool for the Analysis of Lignocellulosic Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13185-13191	8.3	4
25	Synthesis, immobilization and catalytic activity of a copper(II) complex with a chiral bis(oxazoline). <i>Molecules</i> , 2014 , 19, 11988-98	4.8	4
24	Unexpected nitrile formation in bio-based mesoporous materials (Starbonds®). <i>Chemical Communications</i> , 2018 , 54, 686-688	5.8	3
23	Mechanistic evaluation of polychlorinated dibenzo-p-dioxin, dibenzofuran and naphthalene isomer fingerprints in microwave pyrolysis of biomass. <i>Chemosphere</i> , 2016 , 150, 168-175	8.4	3
22	Bio-based materials: general discussion. <i>Faraday Discussions</i> , 2017 , 202, 121-139	3.6	3
21	Pretreatment and Thermochemical and Biological Processing of Biomass 2015 , 53-88		3
20	Chemically modified mesoporous solids and their use in the polymerisation of hydrocarbon monomers. <i>Dalton Transactions RSC</i> , 2002 , 423-427		3
19	Supercritical Extraction of Biomass: A Green and Sustainable Method to Control the Pyrolysis Product Distribution. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 5278-5287	8.3	3
18	Colloidal construction of porous polysaccharide-supported cadmium sulphide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 444, 69-75	5.1	2
17	Feedstocks and analysis: general discussion. <i>Faraday Discussions</i> , 2017 , 202, 497-519	3.6	2
16	CHAPTER 10: Bulk and Surface Analysis of Carbonaceous Materials. <i>RSC Green Chemistry</i> , 2015 , 311-354	0.9	2
15	Supercritical extraction and microwave activation of wood wastes for enhanced syngas production and generation of fullerene-like soot particles. <i>Fuel Processing Technology</i> , 2021 , 212, 106633	7.2	2
14	Effect of metal triflates on the microwave-assisted catalytic hydrogenolysis of birch wood lignin to monophenolic compounds. <i>Industrial Crops and Products</i> , 2021 , 167, 113515	5.9	2
13	Green Chemistry Principles 2013 , 33-58		1
12	Barothermal modification of activated carbon with maleic anhydride. <i>Theoretical and Experimental Chemistry</i> , 2011 , 47, 199-204	1.3	1
11	Evaluation of bonded layer disorder from thermodynamic behavior of methylaminopropyl groups immobilized on sio2. <i>Macromolecular Symposia</i> , 1998 , 136, 99-102	0.8	1
10	Influence of the Donor Properties of Silica-immobilized Amines on the Thermodynamic Characteristics of Interfacial Protolytic Reactions. <i>Adsorption Science and Technology</i> , 1999 , 17, 835-843	3.6	1
9	Synthesis, characterisation and carbon dioxide capture capacities of hierarchically porous Starbonds®. <i>Green Chemistry</i> ,	10	1

8	CHAPTER 12: Other Approaches and the Commercialisation of Sustainable Carbonaceous Material Technology. <i>RSC Green Chemistry</i> , 2015 , 377-406	0.9	1
7	Electrical conductivity of beech sawdust using graphite catalytic coating: unlocking the microwave-assisted thermolysis efficiency of lignocellulosic biomass. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 3895-3905	5.8	1
6	CHAPTER 3. Low-Temperature Microwave Pyrolysis and Large Scale Microwave Applications. <i>RSC Green Chemistry</i> , 64-92	0.9	1
5	Scaled-Up Microwave-Assisted Pretreatment and Continuous Fermentation to Produce Yeast Lipids from Brewery Wastes. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 19803-19816	3.9	0
4	Bio-based carbonaceous composite materials from epoxidised linseed oil, bio-derived curing agent and starch with controllable functionality. <i>RSC Advances</i> , 2017 , 7, 24282-24290	3.7	
3	Effect of Exchangeable Cation in Clays on the Yield and Quality of the Bio-Oil during Microwave Pyrolysis of Cellulose. <i>Sustainable Chemistry</i> , 2020 , 1, 315-324	3.6	
2	Microwave-assisted pyrolysis biorefineries 2013 , 98-114		
1	Characterization of nanodispersed graphite in mesoporous carbon for supercapacitor applications 2016 , 496-497		