

James H Clark

List of Publications by Year in descending order

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Version: 2024-02-01

541
papers

34,389
citations

3668

92
h-index

7043

159
g-index

572
all docs

572
docs citations

572
times ranked

34108
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical factors for levulinic acid production from starch-rich food waste: solvent effects, reaction pressure, and phase separation. <i>Green Chemistry</i> , 2022, 24, 163-175.	4.6	29
2	Speciation evolution and transformation mechanism of P during microwave hydrothermal process of sewage sludge. <i>Science of the Total Environment</i> , 2022, 815, 152801.	3.9	9
3	Highly selective conversion of phenol to cyclohexanol over Ru/Nb ₂ O ₅ -C18PA catalysts with increased acidity in a biphasic system under mild conditions. <i>Green Chemistry</i> , 2022, 24, 1152-1164.	4.6	26
4	An integrated process for the valorization of corn stover promoted by NaCl in a GVL/H ₂ O system. <i>Green Chemistry</i> , 2022, 24, 1515-1526.	4.6	14
5	Synthesis, characterisation and carbon dioxide capture capacities of hierarchically porous Starbons [®] . <i>Green Chemistry</i> , 2022, 24, 1545-1560.	4.6	7
6	Biologically bound nickel as a sustainable catalyst for the selective hydrogenation of cinnamaldehyde. <i>Applied Catalysis B: Environmental</i> , 2022, 306, 121105.	10.8	17
7	Simple, quick and green isolation of cannabinoids from complex natural product extracts using sustainable mesoporous materials (Starbon [®]). <i>Materials Chemistry Frontiers</i> , 2022, 6, 1324-1330.	3.2	3
8	Unveiling the reinforcement effects in cottonseed protein/polycaprolactone blend biocomposites. <i>Composites Science and Technology</i> , 2022, 225, 109480.	3.8	5
9	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, 436, 129174.	6.5	65
10	An experimental investigation into the kinetics and mechanism of the aza-Michael additions of dimethyl itaconate. <i>Tetrahedron</i> , 2022, , 132921.	1.0	3
11	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.	6.6	50
12	Urgently reveal longly hidden toxicant in a familiar fabrication process of biomass-derived environment carbon material. <i>Journal of Environmental Sciences</i> , 2021, 100, 250-256.	3.2	6
13	Migration and transformation mechanism of phosphorus in waste activated sludge during anaerobic fermentation and hydrothermal conversion. <i>Journal of Hazardous Materials</i> , 2021, 403, 123649.	6.5	28
14	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.	6.5	27
15	Highly Efficient and Selective N-Formylation of Amines with CO ₂ and H ₂ Catalyzed by Porous Organometallic Polymers. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4125-4132.	7.2	47
16	Ecofriendly conversion of algal waste into valuable plant growth-promoting rhizobacteria (PGPR) biomass. <i>Waste Management</i> , 2021, 120, 576-584.	3.7	8
17	A Carbon Catalyst Co-doped with P and N for Efficient and Selective Oxidation of 5-Hydroxymethylfurfural into 2,5-Diformylfuran. <i>ChemSusChem</i> , 2021, 14, 456-466.	3.6	26
18	A multi-task deep learning neural network for predicting flammability-related properties from molecular structures. <i>Green Chemistry</i> , 2021, 23, 4451-4465.	4.6	9

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19	A class of surfactants <i>via</i> PEG modification of the oleate moiety of lactonic sophorolipids: synthesis, characterisation and application. <i>Green Chemistry</i> , 2021, 23, 9906-9915.	4.6	12
20	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.	2.5	2
21	A biomass-derived metal-free catalyst doped with phosphorus for highly efficient and selective oxidation of furfural into maleic acid. <i>Green Chemistry</i> , 2021, 23, 1370-1381.	4.6	21
22	Advanced masking agent for leather tanning from stepwise degradation and oxidation of cellulose. <i>Green Chemistry</i> , 2021, 23, 4044-4050.	4.6	32
23	Spatially explicit analysis identifies significant potential for bioenergy with carbon capture and storage in China. <i>Nature Communications</i> , 2021, 12, 3159.	5.8	58
24	Unexpected Formation of Organic Siloxanes alongside Ethylphenols in the Catalytic Hydrogenation of Waste Enzymatic Lignin. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100059.	2.8	2
25	Highly efficient NHC-iridium-catalyzed \hat{I}^2 -methylation of alcohols with methanol at low catalyst loadings. <i>Science China Chemistry</i> , 2021, 64, 1361-1366.	4.2	23
26	Greenness Assessment and Synthesis for the Bio-Based Production of the Solvent 2,2,5,5-Tetramethyloxolane (TMO). <i>Sustainable Chemistry</i> , 2021, 2, 392-406.	2.2	5
27	Polymer Chemistry Applications of Cyrene and its Derivative Cygnet 0.0 as Safer Replacements for Polar Aprotic Solvents. <i>ChemSusChem</i> , 2021, 14, 3367-3381.	3.6	28
28	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.	2.5	7
29	PhytoCat – a bio-derived Ni catalyst for rapid de-polymerization of polystyrene using a synergistic approach. <i>Green Chemistry</i> , 2021, 23, 808-814.	4.6	11
30	3-Methoxybutan-2-one as a sustainable bio-based alternative to chlorinated solvents. <i>RSC Advances</i> , 2021, 11, 39412-39419.	1.7	2
31	Mesophilic and thermophilic anaerobic digestion of aqueous phase generated from hydrothermal liquefaction of cornstalk: Molecular and metabolic insights. <i>Water Research</i> , 2020, 168, 115199.	5.3	58
32	Thiosulfonates as Emerging Reactants: Synthesis and Applications. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 3-64.	2.1	122
33	Microwave-Assisted Hydrothermal Valorisation of Rapeseed Meal for the Co-Production of High Purity Lignin and Saccharide-Rich Aqueous Solutions. <i>Innovative Renewable Energy</i> , 2020, , 747-759.	0.2	0
34	Front Cover Picture: Thiosulfonates as Emerging Reactants: Synthesis and Applications (Adv. Synth.)	2.1	15
35	Why we might be misusing process mass intensity (PMI) and a methodology to apply it effectively as a discovery level metric. <i>Green Chemistry</i> , 2020, 22, 123-135.	4.6	69
36	Hybridised sustainability metrics for use in life cycle assessment of bio-based products: resource efficiency and circularity. <i>Green Chemistry</i> , 2020, 22, 803-813.	4.6	45

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37	A "Trojan horse strategy"™ for the development of a renewable leather tanning agent produced via an AlCl ₃ -catalyzed cellulose depolymerization. <i>Green Chemistry</i> , 2020, 22, 316-321.	4.6	31
38	Microwave-assisted depolymerization of various types of waste lignins over two-dimensional CuO/BCN catalysts. <i>Green Chemistry</i> , 2020, 22, 725-736.	4.6	52
39	Application of bio-based solvents for biocatalysed synthesis of amides with <i>Pseudomonas stutzeri</i> lipase (PSL). <i>Pure and Applied Chemistry</i> , 2020, 92, 579-586.	0.9	3
40	Recent developments in key biorefinery areas. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 21, 64-74.	3.2	31
41	Evidences of starch "microwave interactions under hydrolytic and pyrolytic conditions. <i>Green Chemistry</i> , 2020, 22, 7109-7118.	4.6	14
42	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.	4.6	18
43	Recent Advances in the Catalytic Depolymerization of Lignin towards Phenolic Chemicals: A Review. <i>ChemSusChem</i> , 2020, 13, 4296-4317.	3.6	207
44	Sustainable Single-Stage Solid-Liquid Extraction of Hesperidin and Rutin from Agro-Products Using Cyrene. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18245-18257.	3.2	37
45	A New Step Forward Nonseasonal 5G Biorefineries: Microwave-Assisted, Synergistic, Co-Depolymerization of Wheat Straw (2G Biomass) and <i>Laminaria saccharina</i> (3G Biomass). <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12493-12510.	3.2	12
46	Efficient Depolymerization of Cellulosic Paper Towel Waste Using Organic Carbonate Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13100-13110.	3.2	18
47	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.	1.8	2
48	Unforeseen crystal forms of the natural osmolyte floridoside. <i>Communications Chemistry</i> , 2020, 3, .	2.0	0
49	A methanol-choline chloride based deep eutectic solvent enhances the catalytic oxidation of lignin into acetovanillone and acetic acid. <i>Green Chemistry</i> , 2020, 22, 6415-6423.	4.6	30
50	Sustainable Production of Solid Biofuels and Biomaterials by Microwave-Assisted, Hydrothermal Carbonization (MA-HTC) of Brewers' Spent Grain (BSG). <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18982-18991.	3.2	19
51	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.	2.2	0
52	On the improvement of properties of bioplastic composites derived from wasted cottonseed protein by rational cross-linking and natural fiber reinforcement. <i>Green Chemistry</i> , 2020, 22, 8642-8655.	4.6	29
53	A Family of Water-Immiscible, Dipolar Aprotic, Diamide Solvents from Succinic Acid. <i>ChemSusChem</i> , 2020, 13, 3212-3221.	3.6	6
54	Valorisation of sawdust through the combined microwave-assisted hydrothermal pre-treatment and fermentation using an oleaginous yeast. <i>Biomass Conversion and Biorefinery</i> , 2020, , 1.	2.9	3

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55	Selective Catalytic Dehydrogenative Oxidation of Bio-Polyols to Lactic Acid. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13871-13878.	7.2	39
56	Hydrothermal Liquefaction of Lignin to Aromatic Chemicals: Impact of Lignin Structure. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 16957-16969.	1.8	76
57	Reveal a hidden highly toxic substance in biochar to support its effective elimination strategy. <i>Journal of Hazardous Materials</i> , 2020, 399, 123055.	6.5	24
58	Tailored design of graphitic biochar for high-efficiency and chemical-free microwave-assisted removal of refractory organic contaminants. <i>Chemical Engineering Journal</i> , 2020, 398, 125505.	6.6	96
59	Study of glucose isomerisation to fructose over three heterogeneous carbon-based aluminium-impregnated catalysts. <i>Journal of Cleaner Production</i> , 2020, 268, 122378.	4.6	14
60	A novel unambiguous strategy of molecular feature extraction in machine learning assisted predictive models for environmental properties. <i>Green Chemistry</i> , 2020, 22, 3867-3876.	4.6	29
61	Green Tycoon: A Mobile Application Game to Introduce Biorefining Principles in Green Chemistry. <i>Journal of Chemical Education</i> , 2020, 97, 2014-2019.	1.1	13
62	Green chemicals from used cooking oils: Trends, challenges, and opportunities. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 26, 100369.	3.2	46
63	Deep Eutectic Solvents Based on Natural Ascorbic Acid Analogues and Choline Chloride. <i>ChemistryOpen</i> , 2020, 9, 559-567.	0.9	13
64	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.	2.5	31
65	Phosphorus and nitrogen transformation in antibiotic mycelial residue derived hydrochar and activated pyrolyzed samples: Effect on Pb (II) immobilization. <i>Journal of Hazardous Materials</i> , 2020, 393, 122446.	6.5	27
66	Mechanisms and modelling of phosphorus solid-liquid transformation during the hydrothermal processing of swine manure. <i>Green Chemistry</i> , 2020, 22, 5628-5638.	4.6	68
67	Optimized synthesis of granular fuel and granular activated carbon from sawdust hydrochar without binder. <i>Journal of Cleaner Production</i> , 2020, 276, 122711.	4.6	19
68	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.	1.6	11
69	Rethinking chemistry for a circular economy. <i>Science</i> , 2020, 367, 369-370.	6.0	150
70	Biorenewable hydrogen production through biomass gasification: A review and future prospects. <i>Environmental Research</i> , 2020, 186, 109547.	3.7	280
71	Ball-milled, solvent-free Sn-functionalisation of wood waste biochar for sugar conversion in food waste valorisation. <i>Journal of Cleaner Production</i> , 2020, 268, 122300.	4.6	20
72	Fermentable Liquid Energy Carriers by Microwave-Assisted Hydrothermal Depolymerisation of Several Biomass Carbohydrates. <i>Innovative Renewable Energy</i> , 2020, , 909-920.	0.2	1

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73	The mechanism of salt effects on starch gelatinization from a statistical thermodynamic perspective. <i>Food Hydrocolloids</i> , 2019, 87, 593-601.	5.6	30
74	The production of furfural directly from hemicellulose in lignocellulosic biomass: A review. <i>Catalysis Today</i> , 2019, 319, 14-24.	2.2	281
75	Solvent Applications of Short-Chain Oxymethylene Dimethyl Ether Oligomers. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14834-14840.	3.2	15
76	A Method of Calculating the Kamlet-Abboud-Taft Solvatochromic Parameters Using COSMO-RS. <i>Molecules</i> , 2019, 24, 2209.	1.7	23
77	Fabrication of PES/PVP Water Filtration Membranes Using Cyrene [®] , a Safer Bio-Based Polar Aprotic Solvent. <i>Advances in Polymer Technology</i> , 2019, 2019, 1-15.	0.8	52
78	Predictive deep learning models for environmental properties: the direct calculation of octanol-water partition coefficients from molecular graphs. <i>Green Chemistry</i> , 2019, 21, 4555-4565.	4.6	69
79	A sustainable biochar catalyst synergized with copper heteroatoms and CO ₂ for singlet oxygenation and electron transfer routes. <i>Green Chemistry</i> , 2019, 21, 4800-4814.	4.6	188
80	Microwave-assisted hydrothermal extraction of non-structural carbohydrates and hemicelluloses from tobacco biomass. <i>Carbohydrate Polymers</i> , 2019, 223, 115043.	5.1	35
81	Industry-Informed Workshops to Develop Graduate Skill Sets in the Circular Economy Using Systems Thinking. <i>Journal of Chemical Education</i> , 2019, 96, 2959-2967.	1.1	18
82	Selective Microwave-Assisted Pyrolysis of Cellulose towards Levoglucosenone with Clay Catalysts. <i>ChemSusChem</i> , 2019, 12, 5224-5227.	3.6	13
83	Green Machine: A Card Game Introducing Students to Systems Thinking in Green Chemistry by Strategizing the Creation of a Recycling Plant. <i>Journal of Chemical Education</i> , 2019, 96, 3006-3013.	1.1	28
84	Toward Renewable-Based, Food-Applicable Prebiotics from Biomass: A One-Step, Additive-Free, Microwave-Assisted Hydrothermal Process for the Production of High Purity Xylo-oligosaccharides from Beech Wood Hemicellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16160-16172.	3.2	25
85	Combining steam distillation with microwave-assisted pyrolysis to maximise direct production of levoglucosenone from agricultural wastes. <i>Green Chemistry</i> , 2019, 21, 1282-1291.	4.6	26
86	Using <i>in vivo</i> nickel to direct the pyrolysis of hyperaccumulator plant biomass. <i>Green Chemistry</i> , 2019, 21, 1236-1240.	4.6	22
87	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.	2.4	31
88	Modification of bio-based 1,2-diketone from wheat straw wax: synthesis of polydentate lipophilic super-chelators for enhanced metal recovery. <i>RSC Advances</i> , 2019, 9, 3542-3549.	1.7	2
89	Enzymatic synthesis of unsaturated polyesters: functionalization and reversibility of the aza-Michael addition of pendants. <i>Polymer Chemistry</i> , 2019, 10, 843-851.	1.9	46
90	Graphite oxide- and graphene oxide-supported catalysts for microwave-assisted glucose isomerisation in water. <i>Green Chemistry</i> , 2019, 21, 4341-4353.	4.6	80

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91	Synthesis of Biobased Diethyl Terephthalate via Diels-Alder Addition of Ethylene to 2,5-Furandicarboxylic Acid Diethyl Ester: An Alternative Route to 100% Biobased Poly(ethylene Terephthalate). <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7843-7852.	10.7843	149
92	Green synthesis of gamma-valerolactone (GVL) through hydrogenation of biomass-derived levulinic acid using non-noble metal catalysts: A critical review. <i>Chemical Engineering Journal</i> , 2019, 372, 992-1006.	6.6	259
93	Enzymatic synthesis of lignin derivable pyridine based polyesters for the substitution of petroleum derived plastics. <i>Nature Communications</i> , 2019, 10, 1762.	5.8	58
94	Advances in plant materials, food by-products, and algae conversion into biofuels: use of environmentally friendly technologies. <i>Green Chemistry</i> , 2019, 21, 3213-3231.	4.6	65
95	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.	3.2	43
96	Green biorefinery technologies based on waste biomass. <i>Green Chemistry</i> , 2019, 21, 1168-1170.	4.6	55
97	Valorization of Waste Orange Peel to Produce Shear-Thinning Gels. <i>Journal of Chemical Education</i> , 2019, 96, 3025-3029.	1.1	27
98	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.	2.4	25
99	Magnetically recoverable graphene oxide supported Co@Fe ₃ O ₄ /L-dopa for C-C cross-coupling and oxidation reactions in aqueous medium. <i>Molecular Catalysis</i> , 2019, 469, 27-39.	1.0	41
100	Solvent effects in palladium catalysed cross-coupling reactions. <i>Green Chemistry</i> , 2019, 21, 2164-2213.	4.6	203
101	Rapid Ring-Opening Metathesis Polymerization of Monomers Obtained from Biomass-Derived Furfuryl Amines and Maleic Anhydride. <i>ChemSusChem</i> , 2019, 12, 2393-2401.	3.6	8
102	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.	4.4	29
103	Diamines as interparticle linkers for silica/titania supported PdCu bimetallic nanoparticles in Chan-Lam and Suzuki cross-coupling reactions. <i>New Journal of Chemistry</i> , 2019, 43, 4919-4928.	1.4	23
104	Characterization and utilization of aqueous products from hydrothermal conversion of biomass for bio-oil and hydro-char production: a review. <i>Green Chemistry</i> , 2019, 21, 1553-1572.	4.6	159
105	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.	4.6	13
106	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.	4.6	67
107	Evaluating Algibon adsorbent and adsorption kinetics for launderette water treatment: towards sustainable water management. <i>Water and Environment Journal</i> , 2019, 33, 401-408.	1.0	42
108	Influence of Density on Microwave Pyrolysis of Cellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2916-2920.	3.2	16

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109	Simultaneous production of lignin and polysaccharide rich aqueous solutions by microwave-assisted hydrothermal treatment of rapeseed meal. <i>Energy Conversion and Management</i> , 2018, 165, 634-648.	4.4	24
110	Facilitating active learning within green chemistry. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2018, 13, 56-60.	3.2	20
111	Synthesis, chemistry, physicochemical properties and industrial applications of amino acid surfactants: A review. <i>Comptes Rendus Chimie</i> , 2018, 21, 112-130.	0.2	126
112	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.	4.6	57
113	Unexpected nitrile formation in bio-based mesoporous materials (Starbons®). <i>Chemical Communications</i> , 2018, 54, 686-688.	2.2	5
114	Optimization of Amidation Reactions Using Predictive Tools for the Replacement of Regulated Solvents with Safer Biobased Alternatives. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1550-1554.	3.2	14
115	Sodium Chloride-Assisted Depolymerization of Xylo-oligomers to Xylose. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4098-4104.	3.2	43
116	Mechanistic understanding of salt-assisted autocatalytic hydrolysis of cellulose. <i>Sustainable Energy and Fuels</i> , 2018, 2, 936-940.	2.5	57
117	Valorization of spruce needle waste via supercritical extraction of waxes and facile isolation of nonacosan-10-ol. <i>Journal of Cleaner Production</i> , 2018, 171, 557-566.	4.6	19
118	Monolithic mesoporous graphitic composites as super capacitors: from Starbons to Starenes®. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1119-1127.	5.2	13
119	Greening the esterification between isosorbide and acetic acid. <i>Sustainable Chemistry and Pharmacy</i> , 2018, 7, 41-49.	1.6	8
120	Kinetic and Desorption Study of Selected Bioactive Compounds on Mesoporous Starbons: A Comparison with Microporous-Activated Carbon. <i>ACS Omega</i> , 2018, 3, 18361-18369.	1.6	10
121	Microbial oil produced from the fermentation of microwave-depolymerised rapeseed meal. <i>Bioresource Technology Reports</i> , 2018, 4, 159-165.	1.5	9
122	Catalyst: Possible Consequences of the N-Methyl Pyrrolidone REACH Restriction. <i>CheM</i> , 2018, 4, 2010-2012.	5.8	37
123	Production of fermentable species by microwave-assisted hydrothermal treatment of biomass carbohydrates: reactivity and fermentability assessments. <i>Green Chemistry</i> , 2018, 20, 4507-4520.	4.6	29
124	Renewable Self-Blowing Non-Cyanate Polyurethane Foams from Lysine and Sorbitol. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 4265-4271.	1.2	53
125	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.	4.6	13
126	The additive free microwave hydrolysis of lignocellulosic biomass for fermentation to high value products. <i>Journal of Cleaner Production</i> , 2018, 198, 776-784.	4.6	34

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127	Microwave assisted extraction of phenolic compounds from four economic brown macroalgae species and evaluation of their antioxidant activities and inhibitory effects on α -amylase, α -glucosidase, pancreatic lipase and tyrosinase. <i>Food Research International</i> , 2018, 113, 288-297.	2.9	144
128	Elucidating enzymatic polymerisations: Chain-length selectivity of <i>Candida antarctica</i> lipase B towards various aliphatic diols and dicarboxylic acid diesters. <i>European Polymer Journal</i> , 2018, 106, 79-84.	2.6	55
129	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.	3.2	5
130	Insights into post-polymerisation modification of bio-based unsaturated itaconate and fumarate polyesters via azide-michael addition: Understanding the effects of C=C isomerisation. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1935-1945.	2.5	32
131	Toward Financially Viable Phytoextraction and Production of Plant-Based Palladium Catalysts. <i>Environmental Science & Technology</i> , 2017, 51, 2992-3000.	4.6	38
132	Identification of high performance solvents for the sustainable processing of graphene. <i>Green Chemistry</i> , 2017, 19, 2550-2560.	4.6	133
133	Wholly biomass derivable sustainable polymers by ring-opening metathesis polymerisation of monomers obtained from furfuryl alcohol and itaconic anhydride. <i>Polymer Chemistry</i> , 2017, 8, 3074-3081.	1.9	14
134	Valorisation of Biowastes for the Production of Green Materials Using Chemical Methods. <i>Topics in Current Chemistry</i> , 2017, 375, 46.	3.0	44
135	Rehabilitation and Psychosocial Determinants of Cochlear Implant Outcomes in Older Adults. <i>Ear and Hearing</i> , 2017, 38, 663-671.	1.0	29
136	Ionic liquid coated sulfonated carbon@titania composites for the one-pot synthesis of indeno[1,2-b]indole-9,10-diones and 1H-pyrazolo[1,2-b]phthalazine-5,10-diones in aqueous media. <i>New Journal of Chemistry</i> , 2017, 41, 5521-5532.	1.4	22
137	Water activity in liquid food systems: A molecular scale interpretation. <i>Food Chemistry</i> , 2017, 237, 1133-1138.	4.2	21
138	Polysaccharide-derived mesoporous materials (Starbon®) for sustainable separation of complex mixtures. <i>Faraday Discussions</i> , 2017, 202, 451-464.	1.6	21
139	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.	1.6	35
140	Challenges in the development of bio-based solvents: a case study on methyl(2,2-dimethyl-1,3-dioxolan-4-yl)methyl carbonate as an alternative aprotic solvent. <i>Faraday Discussions</i> , 2017, 202, 157-173.	1.6	39
141	DFT and experimental analysis of aluminium chloride as a Lewis acid proton carrier catalyst for dimethyl carbonate carboxymethylation of alcohols. <i>Catalysis Science and Technology</i> , 2017, 7, 4859-4865.	2.1	13
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