Roger Ibbett

List of Publications by Year
in descending order

18 papers	310 citations	1040056 9 h-index	839539 18 g-index
19 all docs	19 docs citations	19 times ranked	547 citing authors

#	Article	IF	Citations
1	The mechanisms of hydrothermal deconstruction of lignocellulose: New insights from thermalâ€“analytical and complementary studies. Bioresource Technology, 2011, 102, 9272-9278.	9.6	102
2	Structural reorganisation of cellulose fibrils in hydrothermally deconstructed lignocellulosic biomass and relationships with enzyme digestibility. Biotechnology for Biofuels, 2013, 6, 33.	6.2	44
3	Process simulation and life cycle assessment of converting autoclaved municipal solid waste into butanol and ethanol as transport fuels. Waste Management, 2019, 89, 177-189.	7.4	28
4	Understanding the influence of processing conditions on the extraction of rhamnogalacturonan-I â€œhairyâ€•pectin from sugar beet pulp. Food Chemistry: X, 2019, 2, 100026.	4.3	23
5	Expression of Aspergillus niger CAZymes is determined by compositional changes in wheat straw generated by hydrothermal or ionic liquid pretreatments. Biotechnology for Biofuels, 2017, 10, 35.	6.2	18
6	The kinetics of inhibitor production resulting from hydrothermal deconstruction of wheat straw studied using a pressurised microwave reactor. Biotechnology for Biofuels, 2014, 7, 45.	6.2	17
7	Interpretation of relaxation and swelling phenomena in lyocell regenerated cellulosic fibres and textiles associated with the uptake of solutions of sodium hydroxide. Cellulose, 2008, 15, 393-406.	4.9	14
8	A morphological interpretation of water chemical exchange and mobility in cellulose materials derived from proton NMR T2 relaxation. Cellulose, 2014, 21, 139-152.	4.9	13
9	Carbon-13 solid state NMR investigation and modeling of the morphological reorganization in regenerated cellulose fibres induced by controlled acid hydrolysis. Cellulose, 2010, 17, 231-243.	4.9	9
10	Controlled thermo-catalytic modification of regenerated cellulosic fibres using magnesium chloride Lewis acid. Cellulose, 2009, 16, 1075-1087.	4.9	8
11	Chloroplast-rich material from the physical fractionation of pea vine (Pisum sativum) postharvest field residue (Haulm). Food Chemistry, 2019, 272, 18-25.	8.2	8
12	Controlled accessibility Lewis acid catalysed thermal reactions of regenerated cellulosic fibres. Cellulose, 2010, 17, 757-770.	4.9	7
13	In-situ studies of hydrothermal reactions of lignocellulosic biomass using high-pressure differential scanning calorimetry. Biomass and Bioenergy, 2019, 121, 48-55.	5.7	6
14	Succession of physiological stages hallmarks the transcriptomic response of theÂfungus Aspergillus niger to lignocellulose. Biotechnology for Biofuels, 2020, 13, 69.	6.2	4
15	Evaluation of the mechanical properties of lyocell textile materials crosslinked with 2,4â€diacrylamidobenzenesulfonic acid under swollen and nonswollen conditions. Journal of Applied Polymer Science, 2009, 114, 2116-2127.	2.6	3
16	Enzyme digestion of biofiber from mechanical heat treated municipal solid waste: Accessing kinetic and rheological design data using a pilot-scale high-solids mixer. Biomass and Bioenergy, 2020, 143, 105817.	5.7	3
17	Understanding the mechanisms of cooperative physico-chemical treatment and mechanical disintegration of biomass as a route for enhancing enzyme saccharification. Biomass Conversion and Biorefinery, 2018, 8, 293-304.	4.6	2
18	Impact of Altered Cell Wall Composition on Saccharification Efficiency in Stem Tissue of Arabidopsis RABA GTPase-Deficient Knockout Mutants. Bioenergy Research, 2015, 8, 1362-1370.	3.9	1