Agnieszka Brandt

List of Publications by Year
in descending order

37 papers	4,611 citations	257450 24 h-index	345221 36 g-index
38 all docs	38 docs citations	38 times ranked	4806 citing authors

#	Article	IF	Citations
1	Deconstruction of lignocellulosic biomass with ionic liquids. Green Chemistry, 2013, 15, 550.	9.0	1,243
2	Understanding the polarity of ionic liquids. Physical Chemistry Chemical Physics, 2011, 13, 16831.	2.8	454
3	Ionic liquid pretreatment of lignocellulosic biomass with ionic liquidâ€"water mixtures. Green Chemistry, 2011, 13, 2489.	9.0	422
4	Design of low-cost ionic liquids for lignocellulosic biomass pretreatment. Green Chemistry, 2015, 17, 1728-1734.	9.0	384
5	An economically viable ionic liquid for the fractionation of lignocellulosic biomass. Green Chemistry, 2017, 19, 3078-3102.	9.0	296
6	The effect of the ionic liquid anion in the pretreatment of pine wood chips. Green Chemistry, 2010, 12, 672.	9.0	294
7	Structural changes in lignins isolated using an acidic ionic liquid water mixture. Green Chemistry, 2015, 17, 5019-5034.	9.0	159
8	Reconstructing the clostridial n-butanol metabolic pathway in Lactobacillus brevis. Applied Microbiology and Biotechnology, 2010, 87, 635-646.	3.6	156
9	Fractionation of lignocellulosic biomass with the ionic liquid 1-butylimidazolium hydrogen sulfate. Green Chemistry, 2014, 16, 1617.	9.0	148
10	Lignin oxidation and depolymerisation in ionic liquids. Green Chemistry, 2016, 18, 834-841.	9.0	111
11	Quantitative glucose release from softwood after pretreatment with low-cost ionic liquids. Green Chemistry, 2019, 21, 692-703.	9.0	111
12	Rapid pretreatment of <i>Miscanthus</i> using the low-cost ionic liquid triethylammonium hydrogen sulfate at elevated temperatures. Green Chemistry, 2018, 20, 3486-3498.	9.0	100
13	Mechanistic insights into lignin depolymerisation in acidic ionic liquids. Green Chemistry, 2016, 18, 5456-5465.	9.0	93
14	Effect of pretreatment severity on the cellulose and lignin isolated from Salix using ionoSolv pretreatment. Faraday Discussions, 2017, 202, 331-349.	3.2	67
15	Pretreatment of South African sugarcane bagasse using a low-cost protic ionic liquid: a comparison of whole, depithed, fibrous and pith bagasse fractions. Biotechnology for Biofuels, 2018, 11, 247.	6.2	64
16	A step towards the a priori design of ionic liquids. Physical Chemistry Chemical Physics, 2013, 15, 11566.	2.8	62
17	Pretreatment of Lignocellulosic Biomass with Low-cost Ionic Liquids. Journal of Visualized Experiments, 2016, , .	0.3	45
18	Isolation of a new butanol-producing Clostridium strain: High level of hemicellulosic activity and structure of solventogenesis genes of a new Clostridium saccharobutylicum isolate. Systematic and Applied Microbiology, 2009, 32, 449-459.	2.8	43

#	Article	IF	Citations
19	Characterisation of cellulose pulps isolated from Miscanthus using a low-cost acidic ionic liquid. Cellulose, 2020, 27, 4745-4761.	4.9	39
20	Interplay of Acidâ€"Base Ratio and Recycling on the Pretreatment Performance of the Protic Ionic Liquid Monoethanolammonium Acetate. ACS Sustainable Chemistry and Engineering, 2020, 8, 7952-7961.	6.7	36
21	Soaking of pine wood chips with ionic liquids for reduced energy input during grinding. Green Chemistry, 2012, 14, 1079.	9.0	35
22	Fractionation by Sequential Antisolvent Precipitation of Grass, Softwood, and Hardwood Lignins Isolated Using Low-Cost Ionic Liquids and Water. ACS Sustainable Chemistry and Engineering, 2020, 8, 3751-3761.	6.7	34
23	The Highly Selective and Near-Quantitative Conversion of Glucose to 5-Hydroxymethylfurfural Using Ionic Liquids. PLoS ONE, 2016, 11, e0163835.	2.5	34
24	Direct Catalytic Conversion of Cellulose to 5-Hydroxymethylfurfural Using Ionic Liquids. Inorganics, 2016, 4, 32.	2.7	26
25	Experimental validation of calculated atomic charges in ionic liquids. Journal of Chemical Physics, 2018, 148, 193817.	3.0	24
26	Towards an environmentally and economically sustainable biorefinery: heavy metal contaminated waste wood as a low-cost feedstock in a low-cost ionic liquid process. Green Chemistry, 2020, 22, 5032-5041.	9.0	24
27	Ionic liquids as media for biomass processing: opportunities and restrictions. Holzforschung, 2011, 65, .	1.9	23
28	Atomic charges of sulfur in ionic liquids: experiments and calculations. Faraday Discussions, 2017, 206, 183-201.	3.2	20
29	NEXAFS spectroscopy of ionic liquids: experiments <i>versus</i> calculations. Physical Chemistry Chemical Physics, 2017, 19, 31156-31167.	2.8	16
30	Ultra-Low Cost Ionic Liquids for the Delignification of Biomass. ACS Symposium Series, 2017, , 209-223.	0.5	15
31	Exploring the Effect of Water Content and Anion on the Pretreatment of Poplar with Three 1-Ethyl-3-methylimidazolium Ionic Liquids. Molecules, 2020, 25, 2318.	3.8	10
32	Synthesis of substituted tetrahydrofurans via intermolecular reactions of Î³-chlorocarbanions of 3-substituted 3-chloro-propylphenyl sulfones with aldehydes. Tetrahedron, 2010, 66, 3378-3385.	1.9	9
33	Combining Costâ€Efficient Cellulose and Shortâ€Chain Carboxylic Acid Production: The Polyoxometalate (POM)â€Ionosolv Concept. ChemPlusChem, 2020, 85, 373-386.	2.8	9
34	Sensitivity Analysis and Parameter Optimization for the Fractionative Catalytic Conversion of Lignocellulosic Biomass in the Polyoxometalateâ€"Ionosolv Concept. ACS Sustainable Chemistry and Engineering, 2022, 10, 8474-8483.	6.7	3
35	Highlights from the Faraday Discussion: Bio-resources: Feeding a Sustainable Chemical Industry, 19â€"21 June 2017, London, UK. Chemical Communications, 2017, 53, 12848-12856.	4.1	1
36	Solvation Behavior of Ionic Liquids and Their Role in the Production of Lignocellulosic Biofuels and Sustainable Chemical Feedstocks. Series on Chemistry, Energy and the Environment, 2018, , 77-134.	0.3	1

#	Article	IF	Citations
37	Conversion technologies: general discussion. Faraday Discussions, 2017, 202, 371-389.	3.2	0