Kosuke Kuroda

List of Publications by Year
in descending order

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51 papers	888 citations	394421 19 h-index	501196 28 g-index
51 all docs	51 docs citations	51 times ranked	1206 citing authors

#	Article	IF	Citations
1	Design of Wall-Destructive but Membrane-Compatible Solvents. Journal of the American Chemical Society, 2017, 139, 16052-16055.	13.7	57
2	Maintenance-Free Cellulose Solvents Based on Onium Hydroxides. ACS Sustainable Chemistry and Engineering, 2015, 3, 1771-1776.	6.7	52
3	Effects of polarity, hydrophobicity, and density of ionic liquids on cellulose solubility. Physical Chemistry Chemical Physics, 2015, 17, 32276-32282.	2.8	49
4	Pretreatment of bagasse with a minimum amount of cholinium ionic liquid for subsequent saccharification at high loading and co-fermentation for ethanol production. Chemical Engineering Journal, 2018, 334, 657-663.	12.7	43
5	High performance â€œionic liquidâ€•chromatography. Chemical Communications, 2011, 47, 1994.	4.1	39
6	Saccharification and ethanol fermentation from cholinium ionic liquid-pretreated bagasse with a different number of post-pretreatment washings. Bioresource Technology, 2015, 189, 203-209.	9.6	37
7	1H NMR analysis of cellulose dissolved in non-deuterated ionic liquids. Cellulose, 2014, 21, 2199-2206.	4.9	35
8	Lignocellulose nanofibers prepared by ionic liquid pretreatment and subsequent mechanical nanofibrillation of bagasse powder: Application to esterified bagasse/polypropylene composites. Carbohydrate Polymers, 2018, 182, 8-14.	10.2	35
9	¹H NMR Evaluation of Polar and Nondeuterated Ionic Liquids for Selective Extraction of Cellulose and Xylan from Wheat Bran. ACS Sustainable Chemistry and Engineering, 2014, 2, 2204-2210.	6.7	33
10	Hydrolysis of Cellulose Using an Acidic and Hydrophobic Ionic Liquid and Subsequent Separation of Glucose Aqueous Solution from the Ionic Liquid and 5-(Hydroxymethyl)furfural. ACS Sustainable Chemistry and Engineering, 2016, 4, 3352-3356.	6.7	31
11	Dimethyl sulfoxide enhances both the cellulose dissolution ability and biocompatibility of a carboxylate-type liquid zwitterion. New Journal of Chemistry, 2018, 42, 13225-13228.	2.8	31
12	Non-aqueous, zwitterionic solvent as an alternative for dimethyl sulfoxide in the life sciences. Communications Chemistry, 2020, 3, .	4.5	31
13	Viscosity effect of ionic liquid-assisted controlled growth of CH3NH3PbI3 nanoparticle-based planar perovskite solar cells. Organic Electronics, 2017, 48, 147-153.	2.6	30
14	Zwitterionic polymeric ionic liquid-based sorbent coatings in solid phase microextraction for the determination of short chain free fatty acids. Talanta, 2019, 200, 415-423.	5.5	28
15	Structural analysis of zwitterionic liquids vs. homologous ionic liquids. Journal of Chemical Physics, 2018, 148, 193807.	3.0	24
16	Ionic liquid pretreatment of bagasse improves mechanical property of bagasse/polypropylene composites. Industrial Crops and Products, 2017, 109, 158-162.	5.2	23
17	Oxidative depolymerization potential of biorefinery lignin obtained by ionic liquid pretreatment and subsequent enzymatic saccharification of eucalyptus. Industrial Crops and Products, 2018, 111, 457-461.	5.2	23
18	Efficient pretreatment of bagasse at high loading in an ionic liquid. Industrial Crops and Products, 2018, 119, 243-248.	5.2	22

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19	Efficient Hydrolysis of Polysaccharides in Bagasse by in Situ Synthesis of an Acidic Ionic Liquid after Pretreatment. ACS Sustainable Chemistry and Engineering, 2017, 5, 708-713.	6.7	20
20	Molecular weight distributions of polysaccharides and lignin extracted from plant biomass with a polar ionic liquid analysed without a derivatisation process. Analytical Methods, 2015, 7, 1719-1726.	2.7	17
21	Alkylated alkali lignin for compatibilizing agents of carbon fiber-reinforced plastics with polypropylene. Polymer Journal, 2018, 50, 281-284.	2.7	17
22	Essential Requirements of Biocompatible Cellulose Solvents. ACS Sustainable Chemistry and Engineering, 2021, 9, 11825-11836.	6.7	17
23	Zwitterionic compounds are less ecotoxic than their analogous ionic liquids. Green Chemistry, 2021, 23, 3683-3692.	9.0	16
24	Direct HPILC analysis of cellulose depolymerisation in ionic liquids. Analytical Methods, 2013, 5, 3172.	2.7	15
25	Application of microalgae hydrolysate as a fermentation medium for microbial production of 2-pyrone 4,6-dicarboxylic acid. Journal of Bioscience and Bioengineering, 2018, 125, 717-722.	2.2	15
26	Enhanced Hydrolysis of Lignocellulosic Biomass Assisted by a Combination of Acidic Ionic Liquids and Microwave Heating. Journal of Chemical Engineering of Japan, 2016, 49, 809-813.	0.6	14
27	Renaturation of Cytochrome c Dissolved in Polar Phosphonate-type Ionic Liquids Using Highly Polar Zwitterions. Chemistry Letters, 2017, 46, 870-872.	1.3	14
28	Polar zwitterion/saccharide-based deep eutectic solvents for cellulose processing. Carbohydrate Polymers, 2021, 267, 118171.	10.2	13
29	Synthetic zwitterions as efficient non-permeable cryoprotectants. Communications Chemistry, 2021, 4, .	4.5	13
30	Flame-retardant thermoplastics derived from plant cell wall polymers by single ionic liquid substitution. New Journal of Chemistry, 2019, 43, 2057-2064.	2.8	11
31	Butylated lignin as a compatibilizing agent for polypropylene-based carbon fiber-reinforced plastics. Polymer Journal, 2018, 50, 997-1002.	2.7	9
32	Hand-holding and releasing between the anion and cation to change their macroscopic behavior in water. Green Energy and Environment, 2019, 4, 127-130.	8.7	9
33	Efficient recovery of ionic liquid by electrodialysis in the acid hydrolysis process. Separation Science and Technology, 2017, 52, 1240-1245.	2.5	7
34	Examining the unique retention behavior of volatile carboxylic acids in gas chromatography using zwitterionic liquid stationary phases. Journal of Chromatography A, 2019, 1603, 288-296.	3.7	7
35	A Polar Liquid Zwitterion Does Not Critically Destroy Cytochrome c at High Concentration: An Initial Comparative Study with a Polar Ionic Liquid. Australian Journal of Chemistry, 2019, 72, 139.	0.9	7
36	Cellulose Preferentially Dissolved over Xylan in Ionic Liquids through Precise Anion Interaction Regulated by Bulky Cations. ACS Sustainable Chemistry and Engineering, 2021, 9, 8686-8691.	6.7	6

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37	Synthesis of a cellulose dissolving liquid zwitterion from general and low-cost reagents. Cellulose, 2022, 29, 3017-3024.	4.9	6
38	Application of a Non-thermal Atmospheric Pressure Plasma Jet to the Decomposition of Salicylic Acid to Inorganic Carbon. Chemistry Letters, 2015, 44, 1473-1475.	1.3	4
39	Ionic liquids enable accurate chromatographic analysis of polyelectrolytes. Chemical Communications, 2015, 51, 10551-10553.	4.1	4
40	Efficient Hydrolysis of Lignocellulose by Acidic Ionic Liquids under Low-Toxic Condition to Microorganisms. Catalysts, 2017, 7, 108.	3.5	4
41	CO₂-triggered fine tuning of electrical conductivity via tug-of-war between ions. New Journal of Chemistry, 2018, 42, 15528-15532.	2.8	4
42	Flame-retardant plant thermoplastics directly prepared by single ionic liquid substitution. Polymer Journal, 2019, 51, 781-789.	2.7	4
43	High loading of trimethylglycine promotes aqueous solubility of poorly water-soluble cisplatin. Scientific Reports, 2021, 11, 9770.	3.3	4
44	Cryostorage of unstable N-acetylglucosaminyltransferase-V by synthetic zwitterions. RSC Advances, 2022, 12, 11628-11631.	3.6	3
45	Direct preparation of gels from herbal medicinal plants by using a low toxicity liquid zwitterion. Polymer Journal, 2020, 52, 467-472.	2.7	2
46	Reducing Cellulose Crystallinity with a Noncellulose-Dissolving Solid Zwitterion and Its Application for Biomass Pretreatment. ACS Sustainable Chemistry and Engineering, 2022, 10, 6919-6924.	6.7	2
47	Effective Dissolution of Biomass in Ionic Liquids by Irradiation of Non-Thermal Atmospheric Pressure Plasma. Australian Journal of Chemistry, 2017, 70, 731.	0.9	1
48	High performance ionic liquid chromatography. , 2016, , 83-103.		0
49	Design of Functional Imidazolium-Based Ionic Liquids for Biomass Processing. , 2019, , 1-7.		0
50	Biorefinery by using zwtitteionic type ionic liquids (zwitterionic liquids). Denki Kagaku, 2020, 88, 140-144.	0.0	0
51	Characterization and application of carboxylate-type zwitterions synthesized by one-step. Journal of Ionic Liquids, 2022, 2, 100027.	2.7	0