Sang-Hyun Pyo

List of Publications by Year
in descending order

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44 papers	1,198 citations	377584 21 h-index	445137 33 g-index
44 all docs	44 docs citations	44 times ranked	1637 citing authors

#	Article	IF	Citations
1	Fractionation of sugar beet pulp polysaccharides into component sugars and pre-feasibility analysis for further valorisation. Biomass Conversion and Biorefinery, 2024, 14, 3575-3588.	2.9	3
2	Incorporating sulfonated MIL-100(Fe) in sulfonated polysulfone for enhancing microbial fuel cell performance. Fuel, 2022, 312, 122962.	3.4	13
3	Oxidation of 5â€hydroxymethylfurfural with a novel aryl alcohol oxidase from Mycobacterium sp. MS1601. Microbial Biotechnology, 2022, 15, 2176-2190.	2.0	3
4	Acorus calamus L. constructed wetland-microbial fuel cell for Cr(VI)-containing wastewater treatment and bioelectricity production. Journal of Environmental Chemical Engineering, 2022, 10, 107801.	3.3	17
5	Application of proton-conducting sulfonated polysulfone incorporated MIL-100(Fe) composite materials for polymer-electrolyte membrane microbial fuel cells. Journal of Cleaner Production, 2021, 300, 126963.	4.6	33
6	5-Hydroxymethylfurfural from fructose: an efficient continuous process in a water-dimethyl carbonate biphasic system with high yield product recovery. Green Chemistry, 2020, 22, 5402-5413.	4.6	52
7	Clean Production of Levulinic Acid from Fructose and Glucose in Salt Water by Heterogeneous Catalytic Dehydration. ACS Omega, 2020, 5, 14275-14282.	1.6	51
8	A sustainable synthetic route for biobased 6-hydroxyhexanoic acid, adipic acid and Îµ-caprolactone by integrating bio- and chemical catalysis. Green Chemistry, 2020, 22, 4450-4455.	4.6	29
9	3D printable non-isocyanate polyurethanes with tunable material properties. Polymer Chemistry, 2019, 10, 4665-4674.	1.9	22
10	Multi-Step Enzymatic Synthesis of 1,9-Nonanedioic Acid from a Renewable Fatty Acid and Its Application for the Enzymatic Production of Biopolyesters. Polymers, 2019, 11, 1690.	2.0	5
11	Selective Oxidation of 5-Hydroxymethylfurfural to 5-Hydroxymethyl-2-furancarboxylic Acid Using Gluconobacter oxydans. ACS Sustainable Chemistry and Engineering, 2019, 7, 4406-4413.	3.2	54
12	Batch and Continuous Flow Production of 5-Hydroxymethylfurfural from a High Concentration of Fructose Using an Acidic Ion Exchange Catalyst. Organic Process Research and Development, 2019, 23, 952-960.	1.3	29
13	A rigid spirocyclic diol from fructose-based 5-hydroxymethylfurfural: synthesis, life-cycle assessment, and polymerization for renewable polyesters and poly(urethane-urea)s. Green Chemistry, 2019, 21, 6667-6684.	4.6	50
14	Lipase-immobilized chitosan-crosslinked magnetic nanoparticle as a biocatalyst for ring opening esterification of itaconic anhydride. Biochemical Engineering Journal, 2019, 143, 141-150.	1.8	46
15	Three-Dimensional Printing of Bisphenol A-Free Polycarbonates. ACS Applied Materials & Interfaces, 2018, 10, 5331-5339.	4.0	17
16	Sustainable synthesis and characterization of a bisphenol A-free polycarbonate from a six-membered dicyclic carbonate. Polymer Chemistry, 2018, 9, 3798-3807.	1.9	11
17	Complete Genome Sequence of Mycobacterium sp. MS1601, a Bacterium Performing Selective Oxidation of Polyols. Genome Announcements, 2017, 5, .	0.8	2
18	Dimethyl carbonate as a green chemical. Current Opinion in Green and Sustainable Chemistry, 2017, 5, 61-66.	3.2	129

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19	Continuous Optical 3D Printing of Green Aliphatic Polyurethanes. ACS Applied Materials & Interfaces, 2017, 9, 836-844.	4.0	56
20	Enhanced selective oxidation of trimethylolpropane to 2,2-bis(hydroxymethyl)butyric acid using Corynebacterium sp. ATCC 21245. Process Biochemistry, 2017, 63, 1-7.	1.8	8
21	Sixâ€membered cyclic carbonates from trimethylolpropane: Lipaseâ€mediated synthesis in a flow reactor and in silico evaluation of the reaction. Biotechnology Progress, 2017, 33, 375-382.	1.3	8
22	Multi-steps green process for synthesis of six-membered functional cyclic carbonate from trimethylolpropane by lipase catalyzed methacrylation and carbonation, and thermal cyclization. Biotechnology Progress, 2016, 32, 83-88.	1.3	9
23	Chlorineâ€Free Synthesis of Organic Alkyl Carbonates and Fiveâ€and Sixâ€Membered Cyclic Carbonates. Advanced Synthesis and Catalysis, 2016, 358, 834-839.	2.1	28
24	Selective oxidation of trimethylolpropane to 2,2-bis(hydroxymethyl)butyric acid using growing cells of Corynebacterium sp. ATCC 21245. Journal of Biotechnology, 2016, 221, 62-69.	1.9	11
25	Bio-based 3-hydroxypropionic- and acrylic acid production from biodiesel glycerol via integrated microbial and chemical catalysis. Microbial Cell Factories, 2015, 14, 200.	1.9	74
26	Laccase catalysed modification of lignin subunits and coupling to p-aminobenzoic acid. Journal of Molecular Catalysis B: Enzymatic, 2013, 97, 45-53.	1.8	15
27	Biotransformation of glycerol to 3-hydroxypropionaldehyde: Improved production by in situ complexation with bisulfite in a fed-batch mode and separation on anion exchanger. Journal of Biotechnology, 2013, 168, 534-542.	1.9	22
28	Improved production of 3â€hydroxypropionaldehyde by complex formation with bisulfite during biotransformation of glycerol. Biotechnology and Bioengineering, 2013, 110, 1243-1248.	1.7	20
29	Optimization of a twoâ€step process comprising lipase catalysis and thermal cyclization improves the efficiency of synthesis of sixâ€membered cyclic carbonate from trimethylolpropane and dimethylcarbonate. Biotechnology Progress, 2013, 29, 66-73.	1.3	9
30	A new route for the synthesis of methacrylic acid from 2-methyl-1,3-propanediol by integrating biotransformation and catalytic dehydration. Green Chemistry, 2012, 14, 1942.	4.6	35
31	Selective, Green Synthesis of Sixâ€Membered Cyclic Carbonates by Lipaseâ€Catalyzed Chemospecific Transesterification of Diols with Dimethyl Carbonate. Advanced Synthesis and Catalysis, 2012, 354, 797-802.	2.1	28
32	Solvent-free lipase-mediated synthesis of six-membered cyclic carbonates from trimethylolpropane and dialkyl carbonates. Green Chemistry, 2011, 13, 976.	4.6	49
33	Self- and Cross-Aldol Condensation of Propanal Catalyzed by Anion-Exchange Resins in Aqueous Media. Organic Process Research and Development, 2011, 15, 631-637.	1.3	19
34	Cyclic carbonates as monomers for phosgene- and isocyanate-free polyurethanes and polycarbonates. Pure and Applied Chemistry, 2011, 84, 637-661.	0.9	57
35	Lipase-mediated synthesis of six-membered cyclic carbonates from trimethylolpropane and dialkyl carbonates: Influence of medium engineering on reaction selectivity. Journal of Molecular Catalysis B: Enzymatic, 2011, 73, 67-73.	1.8	19
36	Lipaseâ€Catalyzed Synthesis of Saccharideâ€“Fatty Acid Esters Using Suspensions of Saccharide Crystals in Solventâ€Free Media. JAOCS, Journal of the American Oil Chemists' Society, 2010, 87, 281-293.	0.8	44

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37	Designs of Bioreactor Systems for Solventâ€Free Lipaseâ€Catalyzed Synthesis of Fructoseâ€“Oleic Acid Esters. JAOCS, Journal of the American Oil Chemists' Society, 2009, 86, 521-529.	0.8	25
38	Desorption of Fructose from a Packed Column to an Oleic Acid/Fructose Oleate Mixture for Employment in a Bioreactor System. JAOCS, Journal of the American Oil Chemists' Society, 2008, 85, 1033-1040.	0.8	10
39	Purification and characterization of histone H1 variants from human placenta. Biotechnology and Bioprocess Engineering, 2008, 13, 772-777.	1.4	1
40	Preparation and Dissolution Profiles of the Amorphous, Dihydrated Crystalline, and Anhydrous Crystalline Forms of Paclitaxel. Drying Technology, 2007, 25, 1759-1767.	1.7	11
41	Evaluation of paclitaxel rearrangement involving opening of the oxetane ring and migration of acetyl and benzoyl groups. Journal of Pharmaceutical and Biomedical Analysis, 2007, 43, 1141-1145.	1.4	10
42	Large-scale purification of 13-dehydroxybaccatin III and 10-deacetylpaclitaxel, semi-synthetic precursors of paclitaxel, from cell cultures of Taxus chinensis. Journal of Chromatography A, 2006, 1123, 15-21.	1.8	31
43	A Large-Scale Purification of Recombinant Histone H1.5 from Escherichia coli. Protein Expression and Purification, 2001, 23, 38-44.	0.6	10
44	A Simple Method for the Purification of an Antimicrobial Peptide in Recombinant Escherichia coli. Molecular Biotechnology, 2001, 18, 193-198.	1.3	23