Alankar A Vaidya

List of Publications by Year
in descending order

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35
papers

949
citations

430874
18
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454955
30
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36
all docs

36
docs citations

36
times ranked

1267
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on organosolv pretreatment of softwood with a focus on enzymatic hydrolysis of cellulose. Biomass Conversion and Biorefinery, 2022, 12, 5427-5442.	4.6	42
2	Assessing the potential of purple phototrophic microbial community for nitrogen recycling from ammonia-rich medium and anaerobic digestate. Bioresource Technology, 2021, 320, 124436.	9.6	3
3	3D-Printed Enzyme-Embedded Plastics. Biomacromolecules, 2021, 22, 1999-2009.	5.4	21
4	Woody biomass as a potential feedstock for fermentative gaseous biofuel production. World Journal of Microbiology and Biotechnology, 2021, 37, 134.	3.6	12
5	Penicillium rotoruae, a new Species from an In-Ground Timber Durability Test Site in New Zealand. Current Microbiology, 2020, 77, 4129-4139.	2.2	5
6	Synthesis of graft copolymers of chitosan-poly(caprolactone) by lipase catalysed reactive extrusion. Carbohydrate Polymers, 2019, 217, 98-109.	10.2	19
7	Does sugar yield drive lignocellulosic sugar cost? Case study for enzymatic hydrolysis of softwood with added polyethylene glycol. Process Biochemistry, 2019, 80, 103-111.	3.7	11
8	Integrating softwood biorefinery lignin into polyhydroxybutyrate composites and application in 3D printing. Materials Today Communications, 2019, 19, 286-296.	1.9	106
9	Versatile catechol dioxygenases in Sphingobium scionense WP01T. Antonie Van Leeuwenhoek, 2018, 111, 2293-2301.	1.7	2
10	Fluorescence techniques can reveal cell wall organization and predict saccharification in pretreated wood biomass. Industrial Crops and Products, 2018, 123, 84-92.	5.2	38
11	Careful selection of steaming and attrition conditions during thermoâ€mechanical pretreatment can increase enzymatic conversion of softwood. Journal of Chemical Technology and Biotechnology, 2017, 92, 238-244.	3.2	10
12	Visualising recalcitrance by colocalisation of cellulase, lignin and cellulose in pretreated pine biomass using fluorescence microscopy. Scientific Reports, 2017, 7, 44386.	3.3	56
13	A mild thermomechanical process for the enzymatic conversion of radiata pine into fermentable sugars and lignin. Biotechnology for Biofuels, 2017, 10, 61.	6.2	19
14	Improvement in the enzymatic hydrolysis of biofuel substrate by a combined thermochemical and fungal pretreatment. Wood Science and Technology, 2016, 50, 1003-1014.	3.2	18
15	Micromorphological changes and mechanism associated with wet ball milling of Pinus radiata substrate and consequences for saccharification at low enzyme loading. Bioresource Technology, 2016, 214, 132-137.	9.6	39
16	Green route to modification of wood waste, cellulose and hemicellulose using reactive extrusion. Carbohydrate Polymers, 2016, 136, 1238-1250.	10.2	66
17	Improved saccharification of steam-exploded Pinus radiata on supplementing crude extract of Penicillium sp.. 3 Biotech, 2015, 5, 221-225.	2.2	10
18	Softwood hydrolysate as a carbon source forÂpolyhydroxyalkanoate production. Journal of Chemical Technology and Biotechnology, 2014, 89, 1030-1037.	3.2	38

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19	Nanoscale interactions of polyethylene glycol with thermoâ€mechanically preâ€treated <i>Pinus radiata</i> biofuel substrate. Biotechnology and Bioengineering, 2014, 111, 719-725.	3.3	21
20	Strength of adsorption of polyethylene glycol on pretreated Pinus radiata wood and consequences for enzymatic saccharification. Biomass and Bioenergy, 2014, 70, 339-346.	5.7	27
21	A mathematical model for the inhibitory effects of lignin in enzymatic hydrolysis of lignocellulosics. Bioresource Technology, 2013, 130, 757-762.	9.6	17
22	Optimizing the enzyme loading and incubation time in enzymatic hydrolysis of lignocellulosic substrates. Bioresource Technology, 2013, 129, 33-38.	9.6	23
23	Immobilization of inulinase from Aspergillus niger NCIM 945 on chitosan and its application in continuous inulin hydrolysis. Biocatalysis and Agricultural Biotechnology, 2013, 2, 96-101.	3.1	59
24	Pre-treatment of Pinus radiata substrates by basidiomycetes fungi to enhance enzymatic hydrolysis. Biotechnology Letters, 2012, 34, 1263-1267.	2.2	26
25	Correlative light and scanning electron microscopy of the same sections gives new insights into the effects of pectin lyase on bordered pit membranes in Pinus radiata wood. Micron, 2012, 43, 916-919.	2.2	6
26	Evaluation and optimization of immobilized lipase for esterification of fatty acid and monohydric alcohol. World Journal of Microbiology and Biotechnology, 2008, 24, 2987-2995.	3.6	12
27	Enzyme-Catalyzed Oligopeptide Synthesis: Rapid Regioselective Oligomerization of L-Glutamic Acid Diethyl Ester Catalyzed by Papain. ACS Symposium Series, 2008, , 294-308.	0.5	5
28	Rapid Regioselective Oligomerization of l-Glutamic Acid Diethyl Ester Catalyzed by Papain. Macromolecules, 2006, 39, 7915-7921.	4.8	41
29	Altering Glucose Oxidase to Oxidize D-Galactose through Crosslinking of Imprinted Protein. ChemBioChem, 2004, 5, 132-135.	2.6	10
30	Thermoprecipitation of lysozyme from egg white using copolymers of N-isopropylacrylamide and acidic monomers. Journal of Biotechnology, 2001, 87, 95-107.	3.8	19
31	Creating a macromolecular receptor by affinity imprinting. Journal of Applied Polymer Science, 2001, 81, 1075-1083.	2.6	43
32	Design and evaluation of new ligands for lysozyme recovery by affinity thermoprecipitation. Chemical Engineering Science, 2001, 56, 5681-5692.	3.8	17
33	Synthesis, characterization and evaluation of new polymers for thermo- precipitation of adenosine. Biotechnology Letters, 2001, 23, 805-809.	2.2	5
34	LCST in poly(N-isopropylacrylamide) copolymers: high resolution proton NMR investigations. Polymer, 2000, 41, 7951-7960.	3.8	79
35	Extractive Cultivation of RecombinantEscherichia coliUsing Aqueous Two Phase Systems for Production and Separation of Extracellular Xylanase. Biochemical and Biophysical Research Communications, 1999, 255, 274-278.	2.1	24