Alankar A Vaidya

List of Publications by Year
in descending order

35 papers	949 citations	430874 18 h-index	454955 30 g-index
36 all docs	36 docs citations	36 times ranked	1267 citing authors

#	Article	IF	Citations
1	Integrating softwood biorefinery lignin into polyhydroxybutyrate composites and application in 3D printing. Materials Today Communications, 2019, 19, 286-296.	1.9	106
2	LCST in poly(N-isopropylacrylamide) copolymers: high resolution proton NMR investigations. Polymer, 2000, 41, 7951-7960.	3.8	79
3	Green route to modification of wood waste, cellulose and hemicellulose using reactive extrusion. Carbohydrate Polymers, 2016, 136, 1238-1250.	10.2	66
4	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
5	Visualising recalcitrance by colocalisation of cellulase, lignin and cellulose in pretreated pine biomass using fluorescence microscopy. Scientific Reports, 2017, 7, 44386.	3.3	56
6	Creating a macromolecular receptor by affinity imprinting. Journal of Applied Polymer Science, 2001, 81, 1075-1083.	2.6	43
7	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
8	Rapid Regioselective Oligomerization of l-Glutamic Acid Diethyl Ester Catalyzed by Papain. Macromolecules, 2006, 39, 7915-7921.	4.8	41
9	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
10	Softwood hydrolysate as a carbon source forÂpolyhydroxyalkanoate production. Journal of Chemical Technology and Biotechnology, 2014, 89, 1030-1037.	3.2	38
11	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
12	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
13	Pre-treatment of Pinus radiata substrates by basidiomycetes fungi to enhance enzymatic hydrolysis. Biotechnology Letters, 2012, 34, 1263-1267.	2.2	26
14	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
15	Optimizing the enzyme loading and incubation time in enzymatic hydrolysis of lignocellulosic substrates. Bioresource Technology, 2013, 129, 33-38.	9.6	23
16	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
17	3D-Printed Enzyme-Embedded Plastics. Biomacromolecules, 2021, 22, 1999-2009.	5.4	21
18	Thermoprecipitation of lysozyme from egg white using copolymers of N-isopropylacrylamide and acidic monomers. Journal of Biotechnology, 2001, 87, 95-107.	3.8	19

#	Article	IF	Citations
19	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
20	Synthesis of graft copolymers of chitosan-poly(caprolactone) by lipase catalysed reactive extrusion. Carbohydrate Polymers, 2019, 217, 98-109.	10.2	19
21	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
22	Design and evaluation of new ligands for lysozyme recovery by affinity thermoprecipitation. Chemical Engineering Science, 2001, 56, 5681-5692.	3.8	17
23	A mathematical model for the inhibitory effects of lignin in enzymatic hydrolysis of lignocellulosics. Bioresource Technology, 2013, 130, 757-762.	9.6	17
24	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
25	Woody biomass as a potential feedstock for fermentative gaseous biofuel production. World Journal of Microbiology and Biotechnology, 2021, 37, 134.	3.6	12
26	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
27	Altering Glucose Oxidase to Oxidize D-Galactose through Crosslinking of Imprinted Protein. ChemBioChem, 2004, 5, 132-135.	2.6	10
28	Improved saccharification of steam-exploded Pinus radiata on supplementing crude extract of Penicillium sp.. 3 Biotech, 2015, 5, 221-225.	2.2	10
29	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
30	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
31	Synthesis, characterization and evaluation of new polymers for thermo- precipitation of adenosine. Biotechnology Letters, 2001, 23, 805-809.	2.2	5
32	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
33	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
34	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
35	Versatile catechol dioxygenases in Sphingobium scionense WP01T. Antonie Van Leeuwenhoek, 2018, 111, 2293-2301.	1.7	2