

Sachin Kumar

List of Publications by Year in descending order

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45
papers

3,003
citations

279798

23
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docs citations

47
times ranked

3572
citing authors

#	ARTICLE	IF	CITATIONS
1	Importance of chemical pretreatment for bioconversion of lignocellulosic biomass. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 36, 91-106.	16.4	700
2	Recent Trends in the Pretreatment of Lignocellulosic Biomass for Value-Added Products. <i>Frontiers in Energy Research</i> , 2018, 6, .	2.3	622
3	Scope of Algae as Third Generation Biofuels. <i>Frontiers in Bioengineering and Biotechnology</i> , 2014, 2, 90.	4.1	227
4	Recent trends in biochar production methods and its application as a soil health conditioner: a review. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	112
5	Algal growth in photosynthetic algal microbial fuel cell and its subsequent utilization for biofuels. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 402-414.	16.4	107
6	Design, development and technological advancement in the biomass cookstoves: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 26, 265-285.	16.4	104
7	The role of renewable chemicals and biofuels in building a bioeconomy. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 830-844.	3.7	96
8	Bioprospecting thermophilic/thermotolerant microbes for production of lignocellulosic ethanol: A future perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 51, 699-717.	16.4	92
9	Biohythane production in two-stage anaerobic digestion system. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 17363-17380.	7.1	85
10	Ethanol and xylitol production from glucose and xylose at high temperature by <i>Kluyveromyces</i> sp. IPE453. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2009, 36, 1483-1489.	3.0	64
11	Characterization of hyperthermostable α -amylase from <i>Geobacillus</i> sp. IIPTN. <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 1857-1866.	3.6	62
12	Kinetic studies of two-stage sulphuric acid hydrolysis of sugarcane bagasse. <i>Renewable Energy</i> , 2015, 83, 850-858.	8.9	62
13	A novel thermostable xylanase of <i>Paenibacillus macerans</i> IIPSP3 isolated from the termite gut. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 851-860.	3.0	56
14	A review on bioprocessing of paddy straw to ethanol using simultaneous saccharification and fermentation. <i>Process Biochemistry</i> , 2019, 85, 125-134.	3.7	53
15	Recent advances in bioethanol production from lignocelluloses: a comprehensive review with a focus on enzyme engineering and designer biocatalysts. <i>Biofuel Research Journal</i> , 2020, 7, 1267-1295.	13.3	53
16	A new search for thermotolerant yeasts, its characterization and optimization using response surface methodology for ethanol production. <i>Frontiers in Microbiology</i> , 2015, 6, 889.	3.5	50
17	Effect of glycerol thermal and hydrothermal pretreatments on lignin degradation and enzymatic hydrolysis in paddy straw. <i>Renewable Energy</i> , 2020, 154, 1304-1313.	8.9	49
18	Enhancement in xylose utilization using <i>Kluyveromyces marxianus</i> NIRE-K1 through evolutionary adaptation approach. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 835-843.	3.4	35

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19	A review on biomethane potential of paddy straw and diverse prospects to enhance its biodigestibility. Journal of Cleaner Production, 2019, 217, 295-307.	9.3	34
20	Bioprocessing of bagasse hydrolysate for ethanol and xylitol production using thermotolerant yeast. Bioprocess and Biosystems Engineering, 2015, 38, 39-47.	3.4	32
21	Biological Pretreatment of Lignocellulosic Biomass for Enzymatic Saccharification. Green Energy and Technology, 2013, , 3-34.	0.6	29
22	Bioprospecting thermostable cellulosomes for efficient biofuel production from lignocellulosic biomass. Bioresources and Bioprocessing, 2015, 2, .	4.2	28
23	Xylose transport in yeast for lignocellulosic ethanol production: Current status. Journal of Bioscience and Bioengineering, 2018, 125, 259-267.	2.2	27
24	Continuous ethanol production from sugarcane bagasse hydrolysate at high temperature with cell recycle and in-situ recovery of ethanol. Chemical Engineering Science, 2015, 138, 524-530.	3.8	23
25	Augmentation of ethanol production through statistically designed growth and fermentation medium using novel thermotolerant yeast isolates. Renewable Energy, 2017, 109, 406-421.	8.9	22
26	Liquid ammonia pretreatment optimization for improved release of fermentable sugars from sugarcane bagasse. Journal of Cleaner Production, 2021, 281, 123922.	9.3	20
27	Evolutionary Adaptation of <i>Kluyveromyces marxianus</i> NIRE-K3 for Enhanced Xylose Utilization. Frontiers in Energy Research, 2017, 5, .	2.3	19
28	Feasibility of ethanol production with enhanced sugar concentration in bagasse hydrolysate at high temperature using <i>Kluyveromyces</i> sp. IIPE453. Biofuels, 2010, 1, 697-704.	2.4	18
29	Cooling System Economy in Ethanol Production Using Thermotolerant Yeast <i>Kluyveromyces</i> Sp. IIPE453. American Journal of Microbiological Research, 2013, 1, 39-44.	0.4	16
30	Production of first- and second-generation ethanol for use in alcohol-based hand sanitizers and disinfectants in India. Biomass Conversion and Biorefinery, 2023, 13, 7423-7440.	4.6	15
31	Kinetic studies of ethanol fermentation using <i>Kluyveromyces</i> sp. IIPE453. Journal of Chemical Technology and Biotechnology, 2013, 88, 1874-1884.	3.2	13
32	Effect of Evolutionary Adaption on Xylosidase Activity in Thermotolerant Yeast Isolates <i>Kluyveromyces marxianus</i> NIRE-K1 and NIRE-K3. Applied Biochemistry and Biotechnology, 2016, 179, 1143-1154.	2.9	13
33	Evaluating the Pathway for Co-fermentation of Glucose and Xylose for Enhanced Bioethanol Production Using Flux Balance Analysis. Biotechnology and Bioprocess Engineering, 2019, 24, 924-933.	2.6	10
34	Lignocellulosic Ethanol: Feedstocks and Bioprocessing. , 2019, , 165-185.		10
35	Valorization of By-Products Following the Biorefinery Concept. , 2018, , 163-178.		8
36	Prospects of Solvent Tolerance in Butanol Fermenting Bacteria. Biofuel and Biorefinery Technologies, 2018, , 249-264.	0.3	6

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37	Biochemical Strategies for Enhanced Biofuel Production. Biofuel and Biorefinery Technologies, 2019, , 51-87.	0.3	5
38	A Review on Opportunities and Limitations of Membrane Bioreactor Configuration in Biofuel Production. Applied Biochemistry and Biotechnology, 2023, 195, 5497-5540.	2.9	5
39	Biohydrogen Production from Lignocellulosic Feedstocks Using Extremophiles. , 2018, , 79-96.		4
40	Bioprospecting Saccharification of Alkali Pretreated Paddy Straw Through Statistically Designed Parameters for Biofuel Production. Industrial Biotechnology, 2020, 16, 375-385.	0.8	4
41	Optimization of Dilute Acid Pretreatment for Enhanced Release of Fermentable Sugars from Sugarcane Bagasse and Validation by Biophysical Characterization. Bioenergy Research, 2023, 16, 416-434.	3.9	3
42	Potential Role of Xylose Transporters in Industrial Yeast for Bioethanol Production: A Perspective Review. Springer Proceedings in Energy, 2016, , 81-93.	0.3	0
43	Potential Feedstock for Sustainable Biogas Production and its Supply Chain Management. , 2020, , 147-165.		0
44	Bioprospecting of Microorganisms for Biofuel Production. Biofuel and Biorefinery Technologies, 2020, , 19-33.	0.3	0
45	Augmentation of Bio-butanol Production Through Isolation, Screening and Optimization of Growth and Fermentation Parameters Using Response Surface Methodology. Sugar Tech, 0, , .	1.8	0