

Tirath Raj

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,145
citations

394286

19
h-index

610775

24
g-index

24
all docs

24
docs citations

24
times ranked

741
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent biotechnological trends in lactic acid bacterial fermentation for food processing industries. <i>Systems Microbiology and Biomanufacturing</i> , 2022, 2, 14-40.	1.5	24
2	Upgrading the value of anaerobic fermentation via renewable chemicals production: A sustainable integration for circular bioeconomy. <i>Science of the Total Environment</i> , 2022, 806, 150312.	3.9	39
3	Recent advances in commercial biorefineries for lignocellulosic ethanol production: Current status, challenges and future perspectives. <i>Bioresource Technology</i> , 2022, 344, 126292.	4.8	92
4	Lignin valorisation via enzymes: A sustainable approach. <i>Fuel</i> , 2022, 311, 122608.	3.4	64
5	Regulation and augmentation of anaerobic digestion processes via the use of bioelectrochemical systems. <i>Bioresource Technology</i> , 2022, 346, 126628.	4.8	20
6	Algae biorefinery: A promising approach to promote microalgae industry and waste utilization. <i>Journal of Biotechnology</i> , 2022, 345, 1-16.	1.9	34
7	Lignocellulosic biomass as renewable feedstock for biodegradable and recyclable plastics production: A sustainable approach. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112130.	8.2	90
8	Recycling of cathode material from spent lithium-ion batteries: Challenges and future perspectives. <i>Journal of Hazardous Materials</i> , 2022, 429, 128312.	6.5	83
9	Recent advances in black liquor valorization. <i>Bioresource Technology</i> , 2022, 350, 126916.	4.8	26
10	An overview on microalgal-bacterial granular consortia for resource recovery and wastewater treatment. <i>Bioresource Technology</i> , 2022, 351, 127028.	4.8	18
11	Advances and Challenges in Biocatalysts Application for High Solid-Loading of Biomass for 2nd Generation Bio-Ethanol Production. <i>Catalysts</i> , 2022, 12, 615.	1.6	20
12	Critical challenges and technological breakthroughs in food waste hydrolysis and detoxification for fuels and chemicals production. <i>Bioresource Technology</i> , 2022, 360, 127512.	4.8	31
13	2G waste lignin to fuel and high value-added chemicals: Approaches, challenges and future outlook for sustainable development. <i>Chemosphere</i> , 2021, 268, 129326.	4.2	44
14	Pretreatment of second and third generation feedstock for enhanced biohythane production: Challenges, recent trends and perspectives. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 11252-11268.	3.8	37
15	Bioelectrochemical system-mediated waste valorization. <i>Systems Microbiology and Biomanufacturing</i> , 2021, 1, 432-443.	1.5	16
16	Synthesis of Î³-valerolactone (GVL) and their applications for lignocellulosic deconstruction for sustainable green biorefineries. <i>Fuel</i> , 2021, 303, 121333.	3.4	52
17	Process optimization and mass balance studies of pilot scale steam explosion pretreatment of rice straw for higher sugar release. <i>Biomass and Bioenergy</i> , 2019, 130, 105390.	2.9	28
18	Characterization of ionic liquid pretreated plant cell wall for improved enzymatic digestibility. <i>Bioresource Technology</i> , 2018, 249, 139-145.	4.8	37

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19	KINETIC AND ENZYME RECYCLING STUDIES OF IMMOBILIZED b-GLUCOSIDASE FOR LIGNOCELLULOSIC BIOMASS HYDROLYSIS. Environmental Engineering and Management Journal, 2018, 17, 1385-1398.	0.2	11
20	Intensification of steam explosion and structural intricacies impacting sugar recovery. Bioresource Technology, 2017, 241, 692-700.	4.8	16
21	Ionic liquid pretreatment of biomass for sugars production: Driving factors with a plausible mechanism for higher enzymatic digestibility. Carbohydrate Polymers, 2016, 149, 369-381.	5.1	66
22	The cellulose structural transformation for higher enzymatic hydrolysis by ionic liquids and predicting their solvating capabilities. Journal of Cleaner Production, 2016, 113, 1005-1014.	4.6	33
23	Structural features of dilute acid, steam exploded, and alkali pretreated mustard stalk and their impact on enzymatic hydrolysis. Carbohydrate Polymers, 2015, 124, 265-273.	5.1	100
24	Physical and Chemical Characterization of Various Indian Agriculture Residues for Biofuels Production. Energy & Fuels, 2015, 29, 3111-3118.	2.5	164