Tirath Raj

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8593684/publications.pdf

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24	1,145	394421	610901
papers	citations	19 h-index	24 g-index

24	24	24	741
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent biotechnological trends in lactic acid bacterial fermentation for food processing industries. Systems Microbiology and Biomanufacturing, 2022, 2, 14-40.	2.9	24
2	Upgrading the value of anaerobic fermentation via renewable chemicals production: A sustainable integration for circular bioeconomy. Science of the Total Environment, 2022, 806, 150312.	8.0	39
3	Recent advances in commercial biorefineries for lignocellulosic ethanol production: Current status, challenges and future perspectives. Bioresource Technology, 2022, 344, 126292.	9.6	92
4	Lignin valorisation via enzymes: A sustainable approach. Fuel, 2022, 311, 122608.	6.4	64
5	Regulation and augmentation of anaerobic digestion processes via the use of bioelectrochemical systems. Bioresource Technology, 2022, 346, 126628.	9.6	20
6	Algae biorefinery: A promising approach to promote microalgae industry and waste utilization. Journal of Biotechnology, 2022, 345, 1-16.	3.8	34
7	Lignocellulosic biomass as renewable feedstock for biodegradable and recyclable plastics production: A sustainable approach. Renewable and Sustainable Energy Reviews, 2022, 158, 112130.	16.4	90
8	Recycling of cathode material from spent lithium-ion batteries: Challenges and future perspectives. Journal of Hazardous Materials, 2022, 429, 128312.	12.4	83
9	Recent advances in black liquor valorization. Bioresource Technology, 2022, 350, 126916.	9.6	26
10	An overview on microalgal-bacterial granular consortia for resource recovery and wastewater treatment. Bioresource Technology, 2022, 351, 127028.	9.6	18
11	Advances and Challenges in Biocatalysts Application for High Solid-Loading of Biomass for 2nd Generation Bio-Ethanol Production. Catalysts, 2022, 12, 615.	3.5	20
12	Critical challenges and technological breakthroughs in food waste hydrolysis and detoxification for fuels and chemicals production. Bioresource Technology, 2022, 360, 127512.	9.6	31
13	2G waste lignin to fuel and high value-added chemicals: Approaches, challenges and future outlook for sustainable development. Chemosphere, 2021, 268, 129326.	8.2	44
14	Pretreatment of second and third generation feedstock for enhanced biohythane production: Challenges, recent trends and perspectives. International Journal of Hydrogen Energy, 2021, 46, 11252-11268.	7.1	37
15	Bioelectrochemical system-mediated waste valorization. Systems Microbiology and Biomanufacturing, 2021, 1, 432-443.	2.9	16
16	Synthesis of Î³-valerolactone (GVL) and their applications for lignocellulosic deconstruction for sustainable green biorefineries. Fuel, 2021, 303, 121333.	6.4	52
17	Process optimization and mass balance studies of pilot scale steam explosion pretreatment of rice straw for higher sugar release. Biomass and Bioenergy, 2019, 130, 105390.	5.7	28
18	Characterization of ionic liquid pretreated plant cell wall for improved enzymatic digestibility. Bioresource Technology, 2018, 249, 139-145.	9.6	37

#	Article	IF	Citations
19	KINETIC AND ENZYME RECYCLING STUDIES OF IMMOBILIZED b-GLUCOSIDASE FOR LIGNOCELLULOSIC BIOMASS HYDROLYSIS. Environmental Engineering and Management Journal, 2018, 17, 1385-1398.	0.6	11
20	Intensification of steam explosion and structural intricacies impacting sugar recovery. Bioresource Technology, 2017, 241, 692-700.	9.6	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.	10.2	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.	9.3	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.	10.2	100
24	Physical and Chemical Characterization of Various Indian Agriculture Residues for Biofuels Production. Energy & Fuels, 2015, 29, 3111-3118.	5.1	164