Tirath Raj

List of Publications by Year
in descending order

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

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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	Physical and Chemical Characterization of Various Indian Agriculture Residues for Biofuels Production. Energy & Fuels, 2015, 29, 3111-3118.	2.5	164
2	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
3	Recent advances in commercial biorefineries for lignocellulosic ethanol production: Current status, challenges and future perspectives. Bioresource Technology, 2022, 344, 126292.	4.8	92
4	Lignocellulosic biomass as renewable feedstock for biodegradable and recyclable plastics production: A sustainable approach. Renewable and Sustainable Energy Reviews, 2022, 158, 112130.	8.2	90
5	Recycling of cathode material from spent lithium-ion batteries: Challenges and future perspectives. Journal of Hazardous Materials, 2022, 429, 128312.	6.5	83
6	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
7	Lignin valorisation via enzymes: A sustainable approach. Fuel, 2022, 311, 122608.	3.4	64
8	Synthesis of Î³-valerolactone (GVL) and their applications for lignocellulosic deconstruction for sustainable green biorefineries. Fuel, 2021, 303, 121333.	3.4	52
9	2G waste lignin to fuel and high value-added chemicals: Approaches, challenges and future outlook for sustainable development. Chemosphere, 2021, 268, 129326.	4.2	44
10	Upgrading the value of anaerobic fermentation via renewable chemicals production: A sustainable integration for circular bioeconomy. Science of the Total Environment, 2022, 806, 150312.	3.9	39
11	Characterization of ionic liquid pretreated plant cell wall for improved enzymatic digestibility. Bioresource Technology, 2018, 249, 139-145.	4.8	37
12	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.	3.8	37
13	Algae biorefinery: A promising approach to promote microalgae industry and waste utilization. Journal of Biotechnology, 2022, 345, 1-16.	1.9	34
14	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
15	Critical challenges and technological breakthroughs in food waste hydrolysis and detoxification for fuels and chemicals production. Bioresource Technology, 2022, 360, 127512.	4.8	31
16	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.	2.9	28
17	Recent advances in black liquor valorization. Bioresource Technology, 2022, 350, 126916.	4.8	26
18	Recent biotechnological trends in lactic acid bacterial fermentation for food processing industries. Systems Microbiology and Biomanufacturing, 2022, 2, 14-40.	1.5	24

#	Article	IF	Citations
19	Regulation and augmentation of anaerobic digestion processes via the use of bioelectrochemical systems. Bioresource Technology, 2022, 346, 126628.	4.8	20
20	Advances and Challenges in Biocatalysts Application for High Solid-Loading of Biomass for 2nd Generation Bio-Ethanol Production. Catalysts, 2022, 12, 615.	1.6	20
21	An overview on microalgal-bacterial granular consortia for resource recovery and wastewater treatment. Bioresource Technology, 2022, 351, 127028.	4.8	18
22	Bioelectrochemical system-mediated waste valorization. Systems Microbiology and Biomanufacturing, 2021, 1, 432-443.	1.5	16
23	Intensification of steam explosion and structural intricacies impacting sugar recovery. Bioresource Technology, 2017, 241, 692-700.	4.8	16
24	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