Sasikumar Elumalai

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2531245/publications.pdf

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23	732	687363 13	677142 22
papers	citations	h-index	g-index

24	24	24	1188
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Traversing the history of solid catalysts for heterogeneous synthesis of 5-hydroxymethylfurfural from carbohydrate sugars: A review. Renewable and Sustainable Energy Reviews, 2018, 82, 2408-2425.	16.4	127
2	Nano silver particle synthesis using Swertia paniculata herbal extract and its antimicrobial activity. Microbial Pathogenesis, 2018, 114, 402-408.	2.9	100
3	Bi2WO6/C-Dots/TiO2: A Novel Z-Scheme Photocatalyst for the Degradation of Fluoroquinolone Levofloxacin from Aqueous Medium. Nanomaterials, 2020, 10, 910.	4.1	75
4	Hydroxycinnamate Conjugates as Potential Monolignol Replacements: Inâ€...vitro Lignification and Cell Wall Studies with Rosmarinic Acid. ChemSusChem, 2012, 5, 676-686.	6.8	54
5	Torrefaction: a sustainable method for transforming of agri-wastes to high energy density solids (biocoal). Reviews in Environmental Science and Biotechnology, 2020, 19, 463-488.	8.1	49
6	Promising photocatalytic degradation of lignin over carbon quantum dots decorated TiO2 nanocomposite in aqueous condition. Applied Catalysis A: General, 2020, 602, 117730.	4.3	49
7	Improved levulinic acid production from agri-residue biomass in biphasic solvent system through synergistic catalytic effect of acid and products. Bioresource Technology, 2018, 251, 143-150.	9.6	41
8	Epigallocatechin gallate incorporation into lignin enhances the alkaline delignification and enzymatic saccharification of cell walls. Biotechnology for Biofuels, 2012, 5, 59.	6.2	35
9	Thermo-chemical pretreatment of rice straw for further processing for levulinic acid production. Bioresource Technology, 2016, 218, 232-246.	9.6	35
10	Integrated two-stage chemically processing of rice straw cellulose to butyl levulinate. Carbohydrate Polymers, 2016, 150, 286-298.	10.2	23
11	Efficient Conversion of Glucose into Fructose via Extraction-Assisted Isomerization Catalyzed by Endogenous Polyamine Spermine in the Aqueous Phase. ACS Omega, 2020, 5, 2406-2418.	3.5	21
12	Combined sodium hydroxide and ammonium hydroxide pretreatment of post-biogas digestion dairy manure fiber for cost effective cellulosic bioethanol production. Sustainable Chemical Processes, 2014, 2, .	2.3	19
13	Expeditious isomerization of glucose to fructose in aqueous media over sodium titanate nanotubes. RSC Advances, 2018, 8, 30106-30114.	3.6	15
14	Extraction of arabinoxylan from corncob through modified alkaline method to improve xylooligosaccharides synthesis. Bioresource Technology Reports, 2018, 3, 51-58.	2.7	14
15	Biphasic Separation Approach in the DES Biomass Fractionation Facilitates Lignin Recovery for Subsequent Valorization to Phenolics. ACS Sustainable Chemistry and Engineering, 2020, 8, 19140-19154.	6.7	14
16	Sustainable Production of Chemicals and Energy Fuel Precursors from Lignocellulosic Fractions. Green Energy and Technology, 2017, , 7-33.	0.6	13
17	Synergistic Action of Alkalis Improve the Quality Hemicellulose Extraction from Sugarcane Bagasse for the Production of Xylooligosaccharides. Waste and Biomass Valorization, 2021, 12, 3147-3159.	3.4	13
18	Nb₂O₅/gâ€C₃N₄ Heterojunction Facilitates 2,5â€Diformylfuran Production via Photocatalytic Oxidation of 5â€Hydroxymethylfurfural under Direct Sunlight Irradiation. ChemPhotoChem, 2022, 6, .	3.0	10

#	Article	IF	Citations
19	MgO/CaO Nanocomposite Facilitates Economical Production of <scp>d</scp>-Fructose and <scp>d</scp>-Allulose Using Glucose and Its Response Prediction Using a DNN Model. Industrial & Engineering Chemistry Research, 2022, 61, 2524-2537.	3.7	9
20	Incorporation of Flavonoid Derivatives or Pentagalloyl Glucose into Lignin Enhances Cell Wall Saccharification Following Mild Alkaline or Acidic Pretreatments. Bioenergy Research, 2015, 8, 1391-1400.	3.9	8
21	Sn Doping on Ta₂O₅ Facilitates Glucose Isomerization for Enriched 5â€Hydroxymethylfurfural Production and its True Response Prediction using a Neural Network Model. ChemCatChem, 2021, 13, 4787-4798.	3.7	4
22	Sulphonated Carbon Dots Synthesized Through a Oneâ€Pot, Facile and Scalable Protocol Facilitates the Preparation of Renewable Precursors Using Glucose/Levulinic Acid. ChemistrySelect, 2022, 7, .	1.5	3
23	Photocatalysis of biomass lignin to simple aromatic molecules. , 2022, , 535-561.		1