

# Sasikumar Elumalai

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

732  
citations

687363

13  
h-index

677142

22  
g-index

24  
all docs

24  
docs citations

24  
times ranked

1188  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nb <sub>2</sub> O <sub>5</sub> /gâ€C <sub>3</sub> N <sub>4</sub> Heterojunction Facilitates 2,5â€Diformylfuran Production via Photocatalytic Oxidation of 5â€Hydroxymethylfurfural under Direct Sunlight Irradiation. ChemPhotoChem, 2022, 6, .	3.0	10
2	MgO/CaO Nanocomposite Facilitates Economical Production of <sc>d</sc>-Fructose and <sc>d</sc>-Allulose Using Glucose and Its Response Prediction Using a DNN Model. Industrial & Engineering Chemistry Research, 2022, 61, 2524-2537.	3.7	9
3	Photocatalysis of biomass lignin to simple aromatic molecules. , 2022, , 535-561.		1
4	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
5	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
6	Sn Doping on Ta <sub>2</sub> O <sub>5</sub> 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
7	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
8	Bi <sub>2</sub> WO <sub>6</sub> /C-Dots/TiO <sub>2</sub> : A Novel Z-Scheme Photocatalyst for the Degradation of Fluoroquinolone Levofloxacin from Aqueous Medium. Nanomaterials, 2020, 10, 910.	4.1	75
9	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
10	Promising photocatalytic degradation of lignin over carbon quantum dots decorated TiO <sub>2</sub> nanocomposite in aqueous condition. Applied Catalysis A: General, 2020, 602, 117730.	4.3	49
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	Extraction of arabinoxylan from corncob through modified alkaline method to improve xylooligosaccharides synthesis. Bioresource Technology Reports, 2018, 3, 51-58.	2.7	14
13	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
14	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
15	Nano silver particle synthesis using Swertia paniculata herbal extract and its antimicrobial activity. Microbial Pathogenesis, 2018, 114, 402-408.	2.9	100
16	Expeditious isomerization of glucose to fructose in aqueous media over sodium titanate nanotubes. RSC Advances, 2018, 8, 30106-30114.	3.6	15
17	Sustainable Production of Chemicals and Energy Fuel Precursors from Lignocellulosic Fractions. Green Energy and Technology, 2017, , 7-33.	0.6	13
18	Integrated two-stage chemically processing of rice straw cellulose to butyl levulinate. Carbohydrate Polymers, 2016, 150, 286-298.	10.2	23

#	ARTICLE	IF	CITATIONS
19	Thermo-chemical pretreatment of rice straw for further processing for levulinic acid production. <i>Bioresource Technology</i> , 2016, 218, 232-246.	9.6	35
20	Incorporation of Flavonoid Derivatives or Pentagalloyl Glucose into Lignin Enhances Cell Wall Saccharification Following Mild Alkaline or Acidic Pretreatments. <i>Bioenergy Research</i> , 2015, 8, 1391-1400.	3.9	8
21	Combined sodium hydroxide and ammonium hydroxide pretreatment of post-biogas digestion dairy manure fiber for cost effective cellulosic bioethanol production. <i>Sustainable Chemical Processes</i> , 2014, 2, .	2.3	19
22	Epigallocatechin gallate incorporation into lignin enhances the alkaline delignification and enzymatic saccharification of cell walls. <i>Biotechnology for Biofuels</i> , 2012, 5, 59.	6.2	35
23	Hydroxycinnamate Conjugates as Potential Monolignol Replacements: In vitro Lignification and Cell Wall Studies with Rosmarinic Acid. <i>ChemSusChem</i> , 2012, 5, 676-686.	6.8	54