

# Shailesh Pathak

## List of Publications by Year in descending order

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Version: 2024-02-01

13  
papers

170  
citations

1162367

8  
h-index

1125271

13  
g-index

13  
all docs

13  
docs citations

13  
times ranked

204  
citing authors

#	ARTICLE	IF	CITATIONS
1	2nd generation biomass derived glucose conversion to 5-hydroxymethylfurfural and levulinic acid catalyzed by ionic liquid and transition metal sulfate: Elucidation of kinetics and mechanism. <i>Journal of Cleaner Production</i> , 2020, 256, 120292.	4.6	38
2	A machine learning approach to improve ignition properties of high-ash Indian coals by solvent extraction and coal blending. <i>Chemical Engineering Journal</i> , 2021, 413, 127385.	6.6	23
3	Kinetic modeling and simulation of catalyst pellet in the high temperature sulfuric acid decomposition section of Iodine-Sulfur process. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 30850-30864.	3.8	20
4	Acetalization of 5-hydroxymethyl furfural into biofuel additive cyclic acetal using protic ionic liquid catalyst- A thermodynamic and kinetic analysis. <i>Renewable Energy</i> , 2021, 167, 282-293.	4.3	18
5	Irradiation based clean and energy efficient thermochemical conversion of biowaste into paper. <i>Journal of Cleaner Production</i> , 2019, 233, 893-902.	4.6	13
6	Insights into enhanced stability and activity of silica modified SiC supported iron oxide catalyst in sulfuric acid decomposition. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119613.	10.8	12
7	A review on the development of supported non-noble metal catalysts for the endothermic high temperature sulfuric acid decomposition step in the Iodine-Sulfur cycle for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 14186-14210.	3.8	10
8	Gas phase alkylation of biomass-derived m-cresol with iso-propanol over zinc modified HY zeolite: Elucidating reaction mechanism and kinetics including deactivation. <i>Chemical Engineering Journal</i> , 2020, 400, 125824.	6.6	8
9	High temperature sulfuric acid decomposition in iodine-sulfur process –thermodynamics, concentrator and reactor, product separation, materials, and energy analysis. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 34148-34174.	3.8	8
10	Thermodynamic Analysis, Kinetics Modeling, and Reactor Model Development for Acetic Acid Hydrogenation Reaction over Bimetallic Pt-Sn Catalyst. <i>Energy &amp; Fuels</i> , 2020, 34, 3640-3648.	2.5	7
11	High-energy electron irradiation of annual plants (bagasse) for an efficient production of chemi-mechanical pulp fibers. <i>Radiation Physics and Chemistry</i> , 2015, 117, 59-63.	1.4	6
12	Framework development and modeling of the thermodynamics for aqueous sulfuric acid decomposition. <i>Journal of Molecular Liquids</i> , 2019, 291, 111215.	2.3	5
13	Meta-analysis approach for understanding the characteristics of CO <sub>2</sub> reduction catalysts for renewable fuel production. <i>Journal of Cleaner Production</i> , 2022, 339, 130653.	4.6	2