

Hsi-Wu Wong

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

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759233

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23
times ranked

607
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanistic Modeling of Polymer Pyrolysis: Polypropylene. <i>Macromolecules</i> , 2003, 36, 9594-9607.	4.8	131
2	Mechanistic Modeling of Polymer Degradation: A Comprehensive Study of Polystyrene. <i>Macromolecules</i> , 2002, 35, 7830-7844.	4.8	117
3	Tertiary Resource Recovery from Waste Polymers via Pyrolysis: Neat and Binary Mixture Reactions of Polypropylene and Polystyrene. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 4716-4723.	3.7	67
4	Quantitative determination of species production from phenol-formaldehyde resin pyrolysis. <i>Polymer Degradation and Stability</i> , 2015, 112, 122-131.	5.8	59
5	Detailed analysis of species production from the pyrolysis of the Phenolic Impregnated Carbon Ablator. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 122, 258-267.	5.5	48
6	Binary mixture pyrolysis of polypropylene and polystyrene: A modeling and experimental study. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005, 73, 342-354.	5.5	41
7	Modeling the Evolution of the Full Polystyrene Molecular Weight Distribution during Polystyrene Pyrolysis. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 2722-2735.	3.7	31
8	Microbial synthesis of wax esters. <i>Metabolic Engineering</i> , 2021, 67, 428-442.	7.0	22
9	Enhanced Levoglucosan Yields from the Copyrolysis of Cellulose and High-Density Polyethylene. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9480-9488.	6.7	19
10	Effect of Metal Substrate on Electrocatalytic Property of Palladium Nanowire Array for High Performance Ethanol Electro-Oxidation. <i>Langmuir</i> , 2019, 35, 13821-13832.	3.5	16
11	Vertically Aligned and Surface Roughed Pt Nanostructured Wire Array as High Performance Electrocatalysts for Methanol Oxidation. <i>ACS Applied Energy Materials</i> , 2018, 1, 3973-3983.	5.1	15
12	Green synthesis of linear alkylbenzenes via Diels-Alder cycloaddition between furan and linear alkenes over niobic acid catalyst. <i>Green Chemistry Letters and Reviews</i> , 2017, 10, 393-403.	4.7	13
13	Understanding Consequences and Tradeoffs of Melt Processing as a Pretreatment for Enzymatic Depolymerization of Poly(ethylene terephthalate). <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100929.	3.9	9
14	Encoding of Polycyclic Si-Containing Molecules for Determining Species Uniqueness in Automated Mechanism Generation. <i>Journal of Chemical Information and Computer Sciences</i> , 2003, 43, 735-742.	2.8	7
15	Measurement of pyrolysis products from phenolic polymer thermal decomposition. , 2014, , .		7
16	Quantitative determination of species production from the pyrolysis of the Phenolic Impregnated Carbon Ablator (PICA). , 2015, , .		6
17	Safer Solvent Blends for Food, Dye, and Environmental Analyses Using Reversed-Phase High Performance Liquid Chromatography. <i>Chromatographia</i> , 2021, 84, 769.	1.3	6
18	Elucidation of the reaction mechanism of catalytic reaction coupling of ethylbenzene dehydrogenation with nitrobenzene hydrogenation over MoO ₃ /TiO ₂ catalysts. <i>Applied Catalysis A: General</i> , 2020, 602, 117562.	4.3	5

#	ARTICLE	IF	CITATIONS
19	Biomufacturing of value-added products from oils or fats: A case study on cellular and fermentation engineering of <i>Yarrowia lipolytica</i> . <i>Biotechnology and Bioengineering</i> , 2021, 118, 1658-1673.	3.3	5
20	Detailed Kinetic Modeling of NO _x -Mediated Oxidative Dehydrogenation of Propane. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 13553-13561.	3.7	5
21	Propane pyrolysis facilitated by phenyl radicals: A combined experimental and kinetic modeling study. <i>Chemical Engineering Science</i> , 2019, 210, 115243.	3.8	4
22	Hydroxyl Group Stabilization for Increased Yields of Low-Molecular-Weight Products in the Copolyrolysis of Cellulose and Thermoplastics. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 10776-10784.	3.7	3
23	Catalytic reaction coupling of propane dehydrogenation with nitrobenzene hydrogenation over Pt/Al ₂ O ₃ . <i>Catalysis Communications</i> , 2022, 166, 106449.	3.3	3