

Catalytic insights into the production of biomass-derived furfural and humins

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Towards the photophysical studies of humin by-products. <i>Chemical Communications</i> , 2017, 53, 7015-7017.	2.2	14
2	Visible-Light-Driven Valorization of Biomass Intermediates Integrated with H ₂ Production Catalyzed by Ultrathin Ni/CdS Nanosheets. <i>Journal of the American Chemical Society</i> , 2017, 139, 15584-15587.	6.6	390
3	MOFs vs. zeolites: carbonyl activation with M(IV) catalytic sites. <i>Catalysis Science and Technology</i> , 2017, 7, 5482-5494.	2.1	29
4	Influence of ligand substitution on molybdenum catalysts with tridentate Schiff base ligands for the organic solvent-free oxidation of limonene using aqueous TBHP as oxidant. <i>Molecular Catalysis</i> , 2017, 443, 52-59.	1.0	27
5	Benign-by-design preparation of humin-based iron oxide catalytic nanocomposites. <i>Green Chemistry</i> , 2017, 19, 4423-4434.	4.6	57
6	Production of Furanic Biofuels with Zeolite and Metal Oxide Bifunctional Catalysts for Energy and Product-Driven Biorefineries. <i>Biofuels and Biorefineries</i> , 2017, , 239-271.	0.5	1
7	Copper(I)-Catalyzed Four-Component Coupling Using Renewable Building Blocks of CO ₂ and Biomass-Based Aldehydes. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 3105-3113.	1.2	14
8	Conversion of Biomass and Its Derivatives to Levulinic Acid and Levulinate Esters via Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 4749-4766.	1.8	69
9	Multiple cluster CH activations and transformations of furan by triosmium carbonyl complexes. <i>Chemical Communications</i> , 2018, 54, 3464-3467.	2.2	8
10	Catalytic Pyrolysis of Biomass and Polymer Wastes. <i>Catalysts</i> , 2018, 8, 659.	1.6	113
11	Assessment on the double role of the transition metal salts on the acetalization of furfural: Lewis and Brønsted acid catalysts. <i>Molecular Catalysis</i> , 2018, 461, 40-47.	1.0	21
12	Fast furfural formation from xylose using solid acid catalysts assisted by a microwave reactor. <i>Fuel Processing Technology</i> , 2018, 182, 56-67.	3.7	21
13	Humins from Biorefineries as Thermoreactive Macromolecular Systems. <i>ChemSusChem</i> , 2018, 11, 4246-4255.	3.6	27
14	Insights on Thermal and Fire Hazards of Humins in Support of Their Sustainable Use in Advanced Biorefineries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16692-16701.	3.2	20
15	A novel approach to biphasic strategy for intensification of the hydrothermal process to give levulinic acid: Use of an organic non-solvent. <i>Bioresource Technology</i> , 2018, 264, 180-189.	4.8	19
16	Auto-Crosslinked Rigid Foams Derived from Biorefinery Byproducts. <i>ChemSusChem</i> , 2018, 11, 2797-2809.	3.6	39
17	Humins valorization: From well-defined properties to potential applications. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	2
18	Synergistic Production of Methyl Lactate from Carbohydrates Using an Ionic Liquid Functionalized Sn-Containing Catalyst. <i>ChemCatChem</i> , 2018, 10, 4154-4161.	1.8	9

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19	CH activations in aldehydes in reactions with Ru ₅ (μ_4 -C)(CO) ₁₅ . <i>Journal of Organometallic Chemistry</i> , 2018, 871, 159-166.	0.8	5
20	Biomass Promises: A Bumpy Road to a Renewable Economy. <i>Current Green Chemistry</i> , 2018, 5, 47-59.	0.7	15
21	Fructose dehydration promoted by acidic catalysts obtained from biodiesel waste. <i>Chemical Engineering Journal</i> , 2018, 348, 860-869.	6.6	27
22	Low-temperature Continuous-flow Dehydration of Xylose Over Water-tolerant Niobia-Titania Heterogeneous Catalysts. <i>ChemSusChem</i> , 2018, 11, 3649-3660.	3.6	20
23	Terephthalic acid from waste PET: An efficient and reusable catalyst for xylose conversion into furfural. <i>Catalysis Today</i> , 2019, 324, 27-32.	2.2	21
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25	Reconstruction of humins formation mechanism from decomposition products: A GC-MS study based on catalytic continuous flow depolymerizations. <i>Molecular Catalysis</i> , 2019, 479, 110564.	1.0	16
26	Kinetics and Chemorheological Analysis of Cross-Linking Reactions in Humins. <i>Polymers</i> , 2019, 11, 1804.	2.0	24
27	The Dark Side of Biomass Valorization: A Laboratory Experiment To Understand Humin Formation, Catalysis, and Green Chemistry. <i>Journal of Chemical Education</i> , 2019, 96, 3030-3037.	1.1	22
28	Esterification and ketalization of levulinic acid with desilicated zeolite β and pseudo-homogeneous model for reaction kinetics. <i>International Journal of Chemical Kinetics</i> , 2019, 51, 299-308.	1.0	10
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33	Reductive Amination/Cyclization of Methyl Levulinate with Aspartic Acid: Towards Renewable Polyesters with a Pendant Lactam Unit. <i>ChemSusChem</i> , 2019, 12, 3370-3376.	3.6	12
34	Condensation of α -Carbonyl Aldehydes Leads to the Formation of Solid Humins during the Hydrothermal Degradation of Carbohydrates. <i>ACS Omega</i> , 2019, 4, 7330-7343.	1.6	61
35	Continuous-flow Oxidation of HMF to FDCA by Resin-supported Platinum Catalysts in Neat Water. <i>ChemSusChem</i> , 2019, 12, 2558-2563.	3.6	56
36	Dehydration of fructose, sucrose and inulin to 5-hydroxymethylfurfural over yeast-derived carbonaceous microspheres at low temperatures. <i>RSC Advances</i> , 2019, 9, 9041-9048.	1.7	29

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38	Activation of Heteroaromatic C-H Bonds in Furan and 2,5-Dimethylfuran. <i>Inorganic Chemistry</i> , 2019, 58, 6008-6015.	1.9	7
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46	Environmental Catalysis: Present and Future. <i>ChemCatChem</i> , 2019, 11, 18-38.	1.8	87
47	Highly productive xylose dehydration using a sulfonic acid functionalized KIT-6 catalyst. <i>Fuel</i> , 2019, 236, 1156-1163.	3.4	27
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49	Solvent Effects on Degradative Condensation Side Reactions of Fructose in Its Initial Conversion to 5-Hydroxymethylfurfural. <i>ChemSusChem</i> , 2020, 13, 501-512.	3.6	46
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56	Integrated Multiproduct Biorefinery for Furfural Production with Acetic Acid and Lignin Recovery: Design, Scale-Up Evaluation, and Technoeconomic Analysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17345-17358.	3.2	28
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