

Qineng Xia

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

3,824
citations

117625

34
h-index

189892

50
g-index

52
all docs

52
docs citations

52
times ranked

3894
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct hydrodeoxygenation of raw woody biomass into liquid alkanes. <i>Nature Communications</i> , 2016, 7, 11162.	12.8	359
2	Selective production of arenes via direct lignin upgrading over a niobium-based catalyst. <i>Nature Communications</i> , 2017, 8, 16104.	12.8	346
3	Catalytic Production of Value-Added Chemicals and Liquid Fuels from Lignocellulosic Biomass. <i>Chem</i> , 2019, 5, 2520-2546.	11.7	337
4	Pd/NbOPO ₄ Multifunctional Catalyst for the Direct Production of Liquid Alkanes from Aldol Adducts of Furans. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9755-9760.	13.8	241
5	Direct conversion of carbohydrates to 5-hydroxymethylfurfural using Sn-Mont catalyst. <i>Green Chemistry</i> , 2012, 14, 2506.	9.0	163
6	Selective oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid over MnO _x /CeO ₂ composite catalysts. <i>Green Chemistry</i> , 2017, 19, 996-1004.	9.0	154
7	Catalytic conversion of lignocellulosic biomass into hydrocarbons: A mini review. <i>Catalysis Today</i> , 2019, 319, 2-13.	4.4	142
8	Carbothermal activation synthesis of 3D porous g-C ₃ N ₄ /carbon nanosheets composite with superior performance for CO ₂ photoreduction. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 196-203.	20.2	125
9	Catalytic transfer hydrogenation/hydrogenolysis of 5-hydroxymethylfurfural to 2,5-dimethylfuran over Ni-Co/C catalyst. <i>Fuel</i> , 2017, 187, 159-166.	6.4	119
10	Pd/Nb ₂ O ₅ /SiO ₂ Catalyst for the Direct Hydrodeoxygenation of Biomass-Related Compounds to Liquid Alkanes under Mild Conditions. <i>ChemSusChem</i> , 2015, 8, 1761-1767.	6.8	103
11	Efficient conversion of cellulose into 5-hydroxymethylfurfural over niobia/carbon composites. <i>Chemical Engineering Journal</i> , 2018, 332, 528-536.	12.7	93
12	Comprehensive Understanding of the Role of Brønsted and Lewis Acid Sites in Glucose Conversion into 5-Hydroxymethylfurfural. <i>ChemCatChem</i> , 2017, 9, 2739-2746.	3.7	86
13	The Critical Role of Water in the Ring Opening of Furfural Alcohol to 1,2-Pentanediol. <i>ACS Catalysis</i> , 2017, 7, 333-337.	11.2	81
14	Direct conversion of cellulose into sorbitol with high yield by a novel mesoporous niobium phosphate supported Ruthenium bifunctional catalyst. <i>Applied Catalysis A: General</i> , 2013, 459, 52-58.	4.3	78
15	Effective Production of Octane from Biomass Derivatives under Mild Conditions. <i>ChemSusChem</i> , 2011, 4, 1758-1761.	6.8	72
16	Direct deoxygenation of lignin model compounds into aromatic hydrocarbons through hydrogen transfer reaction. <i>Applied Catalysis A: General</i> , 2017, 547, 30-36.	4.3	67
17	Size-dependent catalytic performance of ruthenium nanoparticles in the hydrogenolysis of a 1 ² -O-4 lignin model compound. <i>Catalysis Science and Technology</i> , 2018, 8, 735-745.	4.1	65
18	One-Pot Catalytic Transformation of Lignocellulosic Biomass into Alkylcyclohexanes and Polyols. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4390-4399.	6.7	62

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19	Production of hexane from sorbitol in aqueous medium over Pt/NbOPO ₄ catalyst. Applied Catalysis B: Environmental, 2016, 181, 699-706.	20.2	61
20	Acid-Free Conversion of Cellulose to 5-(Hydroxymethyl)furfural Catalyzed by Hot Seawater. Industrial & Engineering Chemistry Research, 2018, 57, 3545-3553.	3.7	61
21	Robinson Annulation-Directed Synthesis of Jet-Fuel-Ranged Alkylcyclohexanes from Biomass-Derived Chemicals. ACS Catalysis, 2018, 8, 3280-3285.	11.2	58
22	Catalytic production of isosorbide from cellulose over mesoporous niobium phosphate-based heterogeneous catalysts via a sequential process. Applied Catalysis A: General, 2014, 469, 108-115.	4.3	57
23	High-yield production of 2,5-dimethylfuran from 5-hydroxymethylfurfural over carbon supported Ni-Co bimetallic catalyst. Journal of Energy Chemistry, 2016, 25, 1015-1020.	12.9	57
24	High yield production of HMF from carbohydrates over silica-alumina composite catalysts. Catalysis Science and Technology, 2016, 6, 7586-7596.	4.1	56
25	Selective One-Pot Production of High-Grade Diesel-Range Alkanes from Furfural and 2-Methylfuran over Pd/NbOPO ₄ . ChemSusChem, 2017, 10, 747-753.	6.8	56
26	Facile large-scale synthesis of macroscopic 3D porous graphene-like carbon nanosheets architecture for efficient CO ₂ adsorption. Carbon, 2019, 145, 751-756.	10.3	55
27	Hydrazine-Assisted Liquid Exfoliation of MoS ₂ for Catalytic Hydrodeoxygenation of 4-Methylphenol. Chemistry - A European Journal, 2016, 22, 2910-2914.	3.3	52
28	Adsorption-enhanced nitrogen-doped mesoporous CeO ₂ as an efficient visible-light-driven catalyst for CO ₂ photoreduction. Journal of CO ₂ Utilization, 2020, 39, 101176.	6.8	47
29	Facile synthesis of silica nanosheets with hierarchical pore structure and their amine-functionalized composite for enhanced CO ₂ capture. Chemical Engineering Science, 2020, 217, 115528.	3.8	47
30	Oxygen vacancy-rich nitrogen-doped Co ₃ O ₄ nanosheets as an efficient water-resistant catalyst for low temperature CO oxidation. Journal of Colloid and Interface Science, 2019, 553, 427-435.	9.4	46
31	Conversion of raw lignocellulosic biomass into branched long-chain alkanes through three tandem steps. ChemSusChem, 2016, 9, 1712-1718.	6.8	43
32	Cooperative catalysis for the direct hydrodeoxygenation of vegetable oils into diesel-range alkanes over Pd/NbOPO ₄ . Chemical Communications, 2016, 52, 5160-5163.	4.1	43
33	An efficient NiZrO catalyst for hydrogenation of bio-derived methyl levulinate to γ -valerolactone in water under low hydrogen pressure. Applied Catalysis B: Environmental, 2018, 227, 488-498.	20.2	40
34	Synthesis of Renewable Lubricant Alkanes from Biomass-Derived Platform Chemicals. ChemSusChem, 2017, 10, 4102-4108.	6.8	36
35	Production of Low-Freezing-Point Highly Branched Alkanes through Michael Addition. ChemSusChem, 2017, 10, 4817-4823.	6.8	34
36	Energy-efficient production of 1-octanol from biomass-derived furfural-acetone in water. Green Chemistry, 2015, 17, 4411-4417.	9.0	33

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37	Recent advances in heterogeneous catalytic conversion of glucose to 5-hydroxymethylfurfural via green routes. <i>Science China Chemistry</i> , 2017, 60, 870-886.	8.2	33
38	Direct hydrogenolysis of biomass-derived furans over Pt/CeO ₂ catalyst with high activity and stability. <i>Catalysis Communications</i> , 2017, 101, 129-133.	3.3	33
39	NbO _x -Based Catalysts for the Activation of C=O and C=C Bonds in the Valorization of Waste Carbon Resources. <i>Accounts of Chemical Research</i> , 2022, 55, 1301-1312.	15.6	30
40	Comparison of two multifunctional catalysts [M/Nb ₂ O ₅ (M = Pd, Pt)] for one-pot hydrodeoxygenation of lignin. <i>Catalysis Science and Technology</i> , 2018, 8, 6129-6136.	4.1	26
41	Synergetic combination of a mesoporous polymeric acid and a base enables highly efficient heterogeneous catalytic one-pot conversion of crude <i>Jatropha</i> oil into biodiesel. <i>Green Chemistry</i> , 2020, 22, 1698-1709.	9.0	25
42	Honeycomb-like g-C ₃ N ₄ /CeO _{2-x} nanosheets obtained via one step hydrothermal-roasting for efficient and stable Cr(VI) photo-reduction. <i>Chinese Chemical Letters</i> , 2020, 31, 2747-2751.	9.0	19
43	Hydrodeoxygenation of butyric acid at multi-functional Nb ₂ O ₅ catalyst: A density functional theory study. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 18502-18508.	7.1	15
44	Tailoring of Surface Acidic Sites in CoMoS Catalysts for Hydrodeoxygenation Reaction. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5668-5674.	4.6	14
45	The Promotional Effect of Sulfates on TiO ₂ Supported Pt/WO _x Catalyst for Hydrogenolysis of Glycerol. <i>ChemCatChem</i> , 2021, 13, 3953-3959.	3.7	13
46	Fischer-Tropsch Synthesis Steps into the Solar Era: Lower Olefins from Syngas. <i>CheM</i> , 2018, 4, 2741-2743.	11.7	10
47	Catalytic hydrotreatment of humins into cyclic hydrocarbons over solid acid supported metal catalysts in cyclohexane. <i>Journal of Energy Chemistry</i> , 2021, 53, 329-339.	12.9	10
48	A facile strategy to synthesize Pd/TiO ₂ nanotube arrays with high visible light photocatalytic performance. <i>Research on Chemical Intermediates</i> , 2019, 45, 2167-2177.	2.7	7
49	Brønsted acid-enhanced CoMoS catalysts for hydrodeoxygenation reactions. <i>Catalysis Science and Technology</i> , 2022, 12, 3426-3430.	4.1	5
50	Facile Synthesis of Ag/ZnO Hollow Microspheres with Enhanced Photocatalytic Performance under Simulated Sunlight Irradiation. <i>Nano</i> , 2019, 14, 1950036.	1.0	4