Jianjian Wang

List of Publications by Year
in descending order

37 papers	3,545 citations	201674 27 h-index	315739 38 g-index
39 all docs	39 docs citations	39 times ranked	5164 citing authors

#	Article	IF	Citations
1	Imaging defects and their evolution in a metalâ€“organic framework at sub-unit-cell resolution. Nature Chemistry, 2019, 11, 622-628.	13.6	371
2	Volumetric solar heating of nanofluids for direct vapor generation. Nano Energy, 2015, 17, 290-301.	16.0	350
3	Efficient catalytic conversion of fructose into hydroxymethylfurfural by a novel carbon-based solid acid. Green Chemistry, 2011, 13, 2678.	9.0	287
4	Investigating the Origin of Enhanced C₂₊ Selectivity in Oxide-/Hydroxide-Derived Copper Electrodes during CO₂ Electroreduction. Journal of the American Chemical Society, 2020, 142, 4213-4222.	13.7	236
5	Efficient production of the liquid fuel 2,5-dimethylfuran from 5-hydroxymethylfurfural over Ru/Co3O4 catalyst. Applied Catalysis B: Environmental, 2014, 146, 244-248.	20.2	229
6	An Olefinâ€Linked Covalent Organic Framework as a Flexible Thinâ€Film Electrode for a Highâ€Performance Microâ€Supercapacitor. Angewandte Chemie - International Edition, 2019, 58, 12065-12069.	13.8	226
7	Mesoporous niobium phosphate: an excellent solid acid for the dehydration of fructose to 5-hydroxymethylfurfural in water. Catalysis Science and Technology, 2012, 2, 2485.	4.1	177
8	Direct conversion of carbohydrates to 5-hydroxymethylfurfural using Sn-Mont catalyst. Green Chemistry, 2012, 14, 2506.	9.0	163
9	High-yield production of levulinic acid from cellulose and its upgrading to Î³-valerolactone. Green Chemistry, 2014, 16, 3846.	9.0	149
10	Highâ€Performance Largeâ€Scale Solar Steam Generation with Nanolayers of Reusable Biomimetic Nanoparticles. Advanced Sustainable Systems, 2017, 1, 1600013.	5.3	145
11	Recent advances in the catalytic production of glucose from lignocellulosic biomass. Green Chemistry, 2015, 17, 737-751.	9.0	128
12	Production of methyl levulinate from cellulose: selectivity and mechanism study. Green Chemistry, 2015, 17, 4037-4044.	9.0	99
13	Direct conversion of biomass-derived carbohydrates to 5-hydroxymethylfurural over water-tolerant niobium-based catalysts. Fuel, 2015, 139, 301-307.	6.4	97
14	Direct Imaging of Tunable Crystal Surface Structures of MOF MIL-101 Using High-Resolution Electron Microscopy. Journal of the American Chemical Society, 2019, 141, 12021-12028.	13.7	93
15	High yield production and purification of 5â€hydroxymethylfurfural. AICHE Journal, 2013, 59, 2558-2566.	3.6	84
16	Gate tunable giant anisotropic resistance in ultra-thin GaTe. Nature Communications, 2019, 10, 2302.	12.8	72
17	Engineering effective structural defects of metalâ€“organic frameworks to enhance their catalytic performances. Journal of Materials Chemistry A, 2020, 8, 4464-4472.	10.3	66
18	Efficient catalytic conversion of lignocellulosic biomass into renewable liquid biofuels via furan derivatives. RSC Advances, 2014, 4, 31101-31107.	3.6	63

#	Article	IF	Citations
19	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
20	Microporous cokes formed in zeolite catalysts enable efficient solar evaporation. Journal of Materials Chemistry A, 2017, 5, 6860-6865.	10.3	55
21	One-pot catalytic conversion of microalgae (Chlorococcum sp.) into 5-hydroxymethylfurfural over the commercial H-ZSM-5 zeolite. Green Chemistry, 2016, 18, 452-460.	9.0	54
22	Recent progress in the direct synthesis of hierarchical zeolites: synthetic strategies and characterization methods. Materials Chemistry Frontiers, 2017, 1, 2195-2212.	5.9	45
23	Highly Active Heterogeneous Catalyst for Ethylene Dimerization Prepared by Selectively Doping Ni on the Surface of a Zeolitic Imidazolate Framework. Journal of the American Chemical Society, 2021, 143, 7144-7153.	13.7	42
24	Fine Tuning the Diffusion Length in Hierarchical ZSM-5 To Maximize the Yield of Propylene in Catalytic Cracking of Hydrocarbons. ACS Sustainable Chemistry and Engineering, 2018, 6, 15832-15840.	6.7	39
25	Converting Hierarchical to Bulk Structure: A Strategy for Encapsulating Metal Oxides and Noble Metals in Zeolites. Chemistry of Materials, 2018, 30, 6361-6369.	6.7	38
26	Recent advances in heterogeneous catalytic conversion of glucose to 5-hydroxymethylfurfural via green routes. Science China Chemistry, 2017, 60, 870-886.	8.2	33
27	Efficient one-pot production of 1,2-propanediol and ethylene glycol from microalgae (Chlorococcum) Tj ETQq1 1 0.784314 rgBT /Ove	9.0	31
28	Cryogenic Focused Ion Beam Enables Atomic-Resolution Imaging of Local Structures in Highly Sensitive Bulk Crystals and Devices. Journal of the American Chemical Society, 2022, 144, 3182-3191.	13.7	28
29	Preparation of N-doped activated carbons with high CO₂ capture performance from microalgae (Chlorococcum sp.). RSC Advances, 2016, 6, 38724-38730.	3.6	21
30	Probing the Catalytic Active Sites of Mo/HZSM-5 and Their Deactivation during Methane Dehydroaromatization. Cell Reports Physical Science, 2021, 2, 100309.	5.6	17
31	Methanol-to-Olefin Conversion over Small-Pore DDR Zeolites: Tuning the Propylene Selectivity via the Olefin-Based Catalytic Cycle. ACS Catalysis, 2020, 10, 3009-3017.	11.2	12
32	Phosphoric acid-modified commercial kieselguhr supported palladium nanoparticles as efficient catalysts for low-temperature hydrodeoxygenation of lignin derivatives in water. Green Chemistry, 2022, 24, 1570-1577.	9.0	11
33	Highly dispersed Pd nanoparticles confined in ZSM-5 zeolite crystals for selective hydrogenation of cinnamaldehyde. Microporous and Mesoporous Materials, 2022, 330, 111566.	4.4	9
34	Significant Promotion of Carboxyl Groups in Palladium Nanoparticles-Supported Biomass Carbon Catalysts for Efficient Low-Temperature Hydrodeoxygenation of Lignin Derivatives in Water. ACS Sustainable Chemistry and Engineering, 2022, 10, 7277-7287.	6.7	8
35	Promotion of sulfonic acid groups on biomass carbons loading ultrafine palladium nanoparticles for the efficient hydrodeoxygenation of vanillin in water. Current Research in Green and Sustainable Chemistry, 2022, 5, 100230.	5.6	5
36	Tailoring interfacial microenvironment of palladiumâ€zeolite catalysts for the efficient lowâ€temperature hydrodeoxygenation of vanillin in water. ChemCatChem, 2022, 14, .	3.7	3

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37	In situ Generation of Molybdenum Carbide in Zeolite for Methane Dehydroaromatization. Kinetics and Catalysis, 2021, 62, S48-S59.	1.0	1