Zhong Sun

List of Publications by Year
in descending order

17 papers	652 citations	759233 12 h-index	888059 17 g-index
17 all docs	17 docs citations	17 times ranked	995 citing authors

#	Article	IF	Citations
1	Highly efficient preparation of HMF from cellulose using temperature-responsive heteropolyacid catalysts in cascade reaction. Applied Catalysis B: Environmental, 2016, 196, 50-56.	20.2	125
2	One-pot depolymerization of cellulose into glucose and levulinic acid by heteropolyacid ionic liquid catalysis. RSC Advances, 2012, 2, 9058.	3.6	108
3	Single step conversion of cellulose to levulinic acid using temperature-responsive dodeca-aluminotungstic acid catalysts. Green Chemistry, 2016, 18, 742-752.	9.0	84
4	Acidâ€“base bifunctional HPA nanocatalysts promoting heterogeneous transesterification and esterification reactions. Catalysis Science and Technology, 2013, 3, 2204.	4.1	50
5	Conversion of highly concentrated fructose into 5-hydroxymethylfurfural by acidâ€“base bifunctional HPA nanocatalysts induced by choline chloride. RSC Advances, 2014, 4, 63055-63061.	3.6	48
6	A heteropoly acid ionic crystal containing Cr as an active catalyst for dehydration of monosaccharides to produce 5-HMF in water. Catalysis Science and Technology, 2015, 5, 2496-2502.	4.1	48
7	Tailoring the Synergistic Bronsted-Lewis acidic effects in Heteropolyacid catalysts: Applied in Esterification and Transesterification Reactions. Scientific Reports, 2015, 5, 13764.	3.3	41
8	Lysine functional heteropolyacid nanospheres as bifunctional acidâ€“base catalysts for cascade conversion of glucose to levulinic acid. Fuel, 2016, 164, 262-266.	6.4	38
9	A water-tolerant C16H3PW11CrO39 catalyst for the efficient conversion of monosaccharides into 5-hydroxymethylfurfural in a micellar system. RSC Advances, 2013, 3, 23051.	3.6	27
10	Fabrication of a micellar heteropolyacid with Lewisâ€“BrÃ¸nsted acid sites and application for the production of 5-hydroxymethylfurfural from saccharides in water. RSC Advances, 2015, 5, 30869-30876.	3.6	26
11	A highly active willow-derived sulfonated carbon material with macroporous structure for production of glucose. Cellulose, 2015, 22, 675-682.	4.9	16
12	Hydrolysis and alcoholysis of polysaccharides with high efficiency catalyzed by a (C₁₆TA)_xH_{6â^'x}P₂W₁₈O₆₂ nanoassembly. RSC Advances, 2015, 5, 94155-94163.	3.6	14
13	Fabrication of H₃PW₁₂O₄₀/agarose membrane for catalytic production of biodiesel through esterification and transesterification. RSC Advances, 2016, 6, 81794-81801.	3.6	11
14	Review: cascade reactions for conversion of carbohydrates using heteropolyacids as the solid catalysts. Biomass Conversion and Biorefinery, 2022, 12, 2313-2331.	4.6	7
15	Design of a Highly Efficient Indium-Exchanged Heteropolytungstic Acid for Glycerol Esterification with Acetic Acid. Catalysis Surveys From Asia, 2016, 20, 82-90.	2.6	5
16	Fabrication of a Dendritic Heteropolyacid as Selfâ€Separated, Waterâ€Resistant Catalyst for Biodiesel Fuel Production. Energy Technology, 2015, 3, 871-877.	3.8	2
17	Synthesis of recoverable thermosensitive Fe3O4 hybrid microgels with controllable catalytic activity. New Journal of Chemistry, 2020, 44, 19440-19444.	2.8	2