

Zhen-Bing Si

List of Publications by Year in descending order

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papers

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113
citing authors

#	ARTICLE	IF	CITATIONS
1	Synergistic Catalytic Mechanism of Acidic Silanol and Basic Alkylamine Bifunctional Groups Over SBA-15 Zeolite toward Aldol Condensation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4903-4913.	3.1	20
2	Catalytic mechanisms of oxygen-containing groups over vanadium active sites in an Al-MCM-41 framework for production of 2,5-diformylfuran from 5-hydroxymethylfurfural. <i>Catalysis Science and Technology</i> , 2020, 10, 278-290.	4.1	15
3	The design and catalytic performance of molybdenum active sites on an MCM-41 framework for the aerobic oxidation of 5-hydroxymethylfurfural to 2,5-diformylfuran. <i>Catalysis Science and Technology</i> , 2019, 9, 811-821.	4.1	13
4	Mechanistic study of cellobiose conversion to 5-hydroxymethylfurfural catalyzed by a Brønsted acid with counteranions in an aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 9349-9361.	2.8	11
5	Molecular mechanism comparison of decarbonylation with deoxygenation and hydrogenation of 5-hydroxymethylfurfural catalyzed by palladium acetate. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3795-3804.	2.8	8
6	Catalytic mechanism for the isomerization of glucose into fructose over an aluminium-MCM-41 framework. <i>Catalysis Science and Technology</i> , 2021, 11, 1537-1543.	4.1	8
7	Cooperative interaction of sodium and chlorine ions with β -cellobiose in aqueous solution from quantum mechanics and molecular dynamics. <i>Cellulose</i> , 2020, 27, 6793-6809.	4.9	3
8	Theoretical study on molecular mechanism of aerobic oxidation of 5-hydroxymethylfurfural to 2,5-diformylfuran catalyzed by VO_2^+ with counterpart anion in N,N-dimethylacetamide solution. <i>RSC Advances</i> , 2021, 11, 39888-39895.	3.6	1