

Stephanie G Wettstein

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

4,355
citations

471509

17
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752698

20
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docs citations

21
times ranked

4823
citing authors

#	ARTICLE	IF	CITATIONS
1	Using Artificial Neural Networks to Estimate Xylose Conversion and Furfural Yield for Autocatalytic Dehydration Reactions. ACS Sustainable Chemistry and Engineering, 2022, 10, 177-181.	6.7	5
2	Impact of Xylose on Dynamics of Water Diffusion in Mesoporous Zeolites Measured by NMR. Molecules, 2021, 26, 5518.	3.8	1
3	The Effect of Solvent Polarity on Autocatalytic Furfural Production Confirmed by Multivariate Statistical Analysis. ChemCatChem, 2019, 11, 4715-4719.	3.7	10
4	SAPO-34/5A Zeolite Bead Catalysts for Furan Production from Xylose and Glucose. ACS Omega, 2018, 3, 16253-16259.	3.5	16
5	Liquid phase conversion of lignocellulosic biomass using biphasic systems. Biomass and Bioenergy, 2018, 118, 163-171.	5.7	25
6	Conversion of Sugars and Biomass to Furans Using Heterogeneous Catalysts in Biphasic Solvent Systems. ChemCatChem, 2018, 10, 4805-4816.	3.7	88
7	A review of adsorbate and temperature-induced zeolite framework flexibility. Microporous and Mesoporous Materials, 2017, 239, 221-234.	4.4	45
8	Small pore zeolite catalysts for furfural synthesis from xylose and switchgrass in a γ -valerolactone/water solvent. Journal of Molecular Catalysis A, 2016, 422, 18-22.	4.8	57
9	Gamma-valerolactone, a sustainable platform molecule derived from lignocellulosic biomass. Green Chemistry, 2013, 15, 584.	9.0	868
10	Conversion of Hemicellulose into Furfural Using Solid Acid Catalysts in γ -Valerolactone. Angewandte Chemie - International Edition, 2013, 52, 1270-1274.	13.8	397
11	Direct conversion of cellulose to levulinic acid and gamma-valerolactone using solid acid catalysts. Catalysis Science and Technology, 2013, 3, 927-931.	4.1	213
12	Integrated conversion of hemicellulose and cellulose from lignocellulosic biomass. Energy and Environmental Science, 2013, 6, 76-80.	30.8	332
13	A roadmap for conversion of lignocellulosic biomass to chemicals and fuels. Current Opinion in Chemical Engineering, 2012, 1, 218-224.	7.8	273
14	Production of butene oligomers as transportation fuels using butene for esterification of levulinic acid from lignocellulosic biomass: process synthesis and techno-economic evaluation. Green Chemistry, 2012, 14, 3289.	9.0	59
15	A sulfuric acid management strategy for the production of liquid hydrocarbon fuels via catalytic conversion of biomass-derived levulinic acid. Energy and Environmental Science, 2012, 5, 9690.	30.8	72
16	Production of levulinic acid and gamma-valerolactone (GVL) from cellulose using GVL as a solvent in biphasic systems. Energy and Environmental Science, 2012, 5, 8199.	30.8	316
17	Bimetallic catalysts for upgrading of biomass to fuels and chemicals. Chemical Society Reviews, 2012, 41, 8075.	38.1	1,167
18	Conversion of Hemicellulose to Furfural and Levulinic Acid using Biphasic Reactors with Alkylphenol Solvents. ChemSusChem, 2012, 5, 383-387.	6.8	228

#	ARTICLE	IF	CITATIONS
19	Production of Biofuels from Cellulose and Corn Stover Using Alkylphenol Solvents. ChemSusChem, 2011, 4, 1078-1081.	6.8	130
20	Influence of crystal expansion/contraction on zeolite membrane permeation. Journal of Membrane Science, 2010, 357, 98-104.	8.2	25
21	Adsorbate-Induced Expansion of Silicalite-1 Crystals. Industrial & Engineering Chemistry Research, 2008, 47, 9611-9616.	3.7	28