

Kristiina Iisa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7816108/publications.pdf>

Version: 2024-02-01

56
papers

2,348
citations

185998

28
h-index

214527

47
g-index

58
all docs

58
docs citations

58
times ranked

2277
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulfation of Potassium Chloride at Combustion Conditions. <i>Energy & Fuels</i> , 1999, 13, 1184-1190.	2.5	142
2	Analysis of Oxygenated Compounds in Hydrotreated Biomass Fast Pyrolysis Oil Distillate Fractions. <i>Energy & Fuels</i> , 2011, 25, 5462-5471.	2.5	120
3	A kinetic study of gaseous alkali capture by kaolin in the fixed bed reactor equipped with an alkali detector. <i>Fuel</i> , 2005, 84, 169-175.	3.4	115
4	Real-time monitoring of the deactivation of HZSM-5 during upgrading of pine pyrolysis vapors. <i>Green Chemistry</i> , 2014, 16, 1444-1461.	4.6	112
5	In Situ and ex Situ Catalytic Pyrolysis of Pine in a Bench-Scale Fluidized Bed Reactor System. <i>Energy & Fuels</i> , 2016, 30, 2144-2157.	2.5	100
6	Driving towards cost-competitive biofuels through catalytic fast pyrolysis by rethinking catalyst selection and reactor configuration. <i>Energy and Environmental Science</i> , 2018, 11, 2904-2918.	15.6	95
7	Upgrading biomass pyrolysis vapors over $\hat{\text{I}}^2$ -zeolites: role of silica-to-alumina ratio. <i>Green Chemistry</i> , 2014, 16, 4891-4905.	4.6	91
8	Production of low-oxygen bio-oil via ex situ catalytic fast pyrolysis and hydrotreating. <i>Fuel</i> , 2017, 207, 413-422.	3.4	83
9	Production of ethanol from carbohydrates from loblolly pine: A technical and economic assessment. <i>Bioresource Technology</i> , 2008, 99, 5051-5057.	4.8	78
10	Hydrocarbon Liquid Production from Biomass via Hot-Vapor-Filtered Fast Pyrolysis and Catalytic Hydroprocessing of the Bio-oil. <i>Energy & Fuels</i> , 2014, 28, 5909-5917.	2.5	73
11	Catalytic fast pyrolysis of biomass: the reactions of water and aromatic intermediates produces phenols. <i>Green Chemistry</i> , 2015, 17, 4217-4227.	4.6	71
12	Limestone and dolomite as sulfur absorbents under pressurized gasification conditions. <i>Fuel</i> , 1996, 75, 89-95.	3.4	69
13	Co-production of ethanol and cellulose fiber from Southern Pine: A technical and economic assessment. <i>Biomass and Bioenergy</i> , 2008, 32, 1293-1302.	2.9	69
14	Influence of Crystal Allomorph and Crystallinity on the Products and Behavior of Cellulose during Fast Pyrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4662-4674.	3.2	69
15	Effect of Temperature, Pressure, and Residence Time on Pyrolysis of Pine in an Entrained Flow Reactor. <i>Energy & Fuels</i> , 2014, 28, 5144-5157.	2.5	68
16	Kinetics of the Sulfation of NaCl at Combustion Conditions. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 4212-4216.	1.8	62
17	Role of Biopolymers in the Deactivation of ZSM-5 during Catalytic Fast Pyrolysis of Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10030-10038.	3.2	62
18	Multiscale Evaluation of Catalytic Upgrading of Biomass Pyrolysis Vapors on Ni- and Ca-Modified ZSM-5. <i>Energy & Fuels</i> , 2016, 30, 9471-9479.	2.5	57

#	ARTICLE	IF	CITATIONS
19	Improving biomass pyrolysis economics by integrating vapor and liquid phase upgrading. <i>Green Chemistry</i> , 2018, 20, 567-582.	4.6	55
20	Capture of Potassium and Cadmium by Kaolin in Oxidizing and Reducing Atmospheres. <i>Energy & Fuels</i> , 2004, 18, 1870-1876.	2.5	47
21	Fractional condensation of pyrolysis vapors produced from Nordic feedstocks in cyclone pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 123, 244-254.	2.6	46
22	Molybdenum incorporated mesoporous silica catalyst for production of biofuels and value-added chemicals via catalytic fast pyrolysis. <i>Green Chemistry</i> , 2015, 17, 3035-3046.	4.6	45
23	Deactivation of Multilayered MFI Nanosheet Zeolite during Upgrading of Biomass Pyrolysis Vapors. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5477-5484.	3.2	44
24	On the application of surface ionization detector for the study of alkali capture by kaolin in a fixed bed reactor. <i>Fuel</i> , 2004, 83, 807-812.	3.4	40
25	Comparison of SO ₂ capture capacities of limestones and dolomites under pressure. <i>Fuel</i> , 1995, 74, 395-400.	3.4	39
26	Pyrolysis of Woody Residue Feedstocks: Upgrading of Bio-oils from Mountain-Pine-Beetle-Killed Trees and Hog Fuel. <i>Energy & Fuels</i> , 2014, 28, 7510-7516.	2.5	38
27	Catalytic Pyrolysis of Pine Over HZSM-5 with Different Binders. <i>Topics in Catalysis</i> , 2016, 59, 94-108.	1.3	32
28	Catalytic fast pyrolysis with metal-modified ZSM-5 catalysts in inert and hydrogen atmospheres. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 135, 199-208.	2.6	31
29	Evaluate Impact of Catalyst Type on Oil Yield and Hydrogen Consumption from Mild Hydrotreating. <i>Energy & Fuels</i> , 2014, 28, 3086-3095.	2.5	30
30	Ga/ZSM-5 catalyst improves hydrocarbon yields and increases alkene selectivity during catalytic fast pyrolysis of biomass with co-fed hydrogen. <i>Green Chemistry</i> , 2020, 22, 2403-2418.	4.6	26
31	Chemical characterization and water content determination of bio-oils obtained from various biomass species using ³¹ P NMR spectroscopy. <i>Biofuels</i> , 2012, 3, 123-128.	1.4	23
32	A perspective on biomass-derived biofuels: From catalyst design principles to fuel properties. <i>Journal of Hazardous Materials</i> , 2020, 400, 123198.	6.5	23
33	Chemical and physical characterization of aerosols from fast pyrolysis of biomass. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 142, 104606.	2.6	22
34	Pressurized Stabilization of Desulfurization Residues from Gasification Processes. <i>Energy & Fuels</i> , 1996, 10, 1189-1195.	2.5	20
35	Quantitative ¹³ C NMR characterization of fast pyrolysis oils. <i>RSC Advances</i> , 2016, 6, 102665-102670.	1.7	20
36	Hydrotreating the Organic Fraction of Biomass Pyrolysis Oil to a Refinery Intermediate. <i>Energy & Fuels</i> , 2015, 29, 7985-7992.	2.5	18

#	ARTICLE	IF	CITATIONS
37	Sulphur absorption by limestone at pressurized fluidized bed conditions. Proceedings of the Combustion Institute, 1991, 23, 943-948.	0.3	17
38	Catalytic Upgrading of Biomass Pyrolysis Oxygenates with Vacuum Gas Oil Using a Davison Circulating Riser Reactor. Energy & Fuels, 2018, 32, 1733-1743.	2.5	17
39	Detailed Oil Compositional Analysis Enables Evaluation of Impact of Temperature and Biomass-to-Catalyst Ratio on ex Situ Catalytic Fast Pyrolysis of Pine Vapors over ZSM-5. ACS Sustainable Chemistry and Engineering, 2020, 8, 1762-1773.	3.2	17
40	An Assessment of Gasification-Based Biorefining at Kraft Pulp and Paper Mills in the United States, Part B: Results. Tappi Journal, 2009, 8, 27-35.	0.2	17
41	Kinetics of NO Reduction by Black Liquor Char. Energy & Fuels, 1998, 12, 457-463.	2.5	14
42	Online Biogenic Carbon Analysis Enables Refineries to Reduce Carbon Footprint during Coprocessing Biomass- and Petroleum-Derived Liquids. Analytical Chemistry, 2021, 93, 4351-4360.	3.2	12
43	<i>Ex situ</i> upgrading of pyrolysis vapors over PtTiO ₂ : extraction of apparent kinetics via hierarchical transport modeling. Reaction Chemistry and Engineering, 2021, 6, 125-137.	1.9	11
44	Liquid-Liquid Equilibrium Measurements for Model Systems Related to Catalytic Fast Pyrolysis of Biomass. Journal of Chemical & Engineering Data, 2017, 62, 243-252.	1.0	10
45	Optimizing Process Conditions during Catalytic Fast Pyrolysis of Pine with Pt/TiO ₂ Improving the Viability of a Multiple-Fixed-Bed Configuration. ACS Sustainable Chemistry and Engineering, 2021, 9, 1235-1245.	3.2	10
46	Product layer diffusion in the sulphation of calcium carbonate. Proceedings of the Combustion Institute, 1992, 24, 1349-1356.	0.3	8
47	High-speed imaging of biomass particles heated with a laser. Journal of Analytical and Applied Pyrolysis, 2013, 103, 278-286.	2.6	8
48	Hydrotreating of Model Mixtures and Catalytic Fast Pyrolysis Oils over Pd/C. Energy & Fuels, 2018, 32, 12577-12586.	2.5	8
49	Feedstock and catalyst impact on bio-oil production and FCC Co-processing to fuels. Biomass and Bioenergy, 2022, 163, 106502.	2.9	7
50	Biomass Conversion to Produce Hydrocarbon Liquid Fuel Via Hot-vapor Filtered Fast Pyrolysis and Catalytic Hydrotreating. Journal of Visualized Experiments, 2016, , .	0.2	6
51	Optimization of Biomass Pyrolysis Vapor Upgrading Using a Laminar Entrained-Flow Reactor System. Energy & Fuels, 2020, 34, 6030-6040.	2.5	6
52	Efficacy, economics, and sustainability of bio-based insecticides from thermochemical biorefineries. Green Chemistry, 2021, 23, 10145-10156.	4.6	5
53	Accelerating catalyst development for biofuel production through multiscale catalytic fast pyrolysis of biomass over Mo ₂ C. Chem Catalysis, 2022, 2, 1819-1831.	2.9	5
54	Computational Fluid Dynamics Simulations of Raw Gas Composition from a Black Liquor Gasifier Comparison with Experiments. Energy & Fuels, 2011, 25, 4122-4128.	2.5	4

#	ARTICLE	IF	CITATIONS
55	Predicting thermal excursions during <i>in situ</i> oxidative regeneration of packed bed catalytic fast pyrolysis catalyst. Reaction Chemistry and Engineering, 2021, 6, 888-904.	1.9	4
56	Multiscale Catalytic Fast Pyrolysis of Grindelia Reveals Opportunities for Generating Low Oxygen Content Bio-Oils from Drought Tolerant Biomass. Energy & Fuels, 0, , .	2.5	0