

Janusz A Kozinski

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

5,855
citations

66315

42
h-index

91828

69
g-index

72
all docs

72
docs citations

72
times ranked

4853
citing authors

#	ARTICLE	IF	CITATIONS
1	Supercritical water gasification of biomass for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 6912-6926.	3.8	399
2	Reaction chemistry and phase behavior of lignin in high-temperature and supercritical water. <i>Bioresource Technology</i> , 2008, 99, 3424-3430.	4.8	333
3	Characterization of North American Lignocellulosic Biomass and Biochars in Terms of their Candidacy for Alternate Renewable Fuels. <i>Bioenergy Research</i> , 2013, 6, 663-677.	2.2	295
4	Pathways of lignocellulosic biomass conversion to renewable fuels. <i>Biomass Conversion and Biorefinery</i> , 2014, 4, 157-191.	2.9	290
5	Biochar as an Exceptional Bioresource for Energy, Agronomy, Carbon Sequestration, Activated Carbon and Specialty Materials. <i>Waste and Biomass Valorization</i> , 2016, 7, 201-235.	1.8	272
6	Effects of temperature on the physicochemical characteristics of fast pyrolysis bio-chars derived from Canadian waste biomass. <i>Fuel</i> , 2014, 125, 90-100.	3.4	266
7	An assessment on the sustainability of lignocellulosic biomass for biorefining. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 50, 925-941.	8.2	223
8	Evaluation of the physicochemical development of biochars obtained from pyrolysis of wheat straw, timothy grass and pinewood: Effects of heating rate. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 104, 485-493.	2.6	212
9	Supercritical water gasification of biomass: a state-of-the-art review of process parameters, reaction mechanisms and catalysis. <i>Sustainable Energy and Fuels</i> , 2019, 3, 578-598.	2.5	210
10	Gasification of fruit wastes and agro-food residues in supercritical water. <i>Energy Conversion and Management</i> , 2016, 110, 296-306.	4.4	190
11	A review on subcritical and supercritical water gasification of biogenic, polymeric and petroleum wastes to hydrogen-rich synthesis gas. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 119, 109546.	8.2	184
12	Chemistry and Specialty Industrial Applications of Lignocellulosic Biomass. <i>Waste and Biomass Valorization</i> , 2021, 12, 2145-2169.	1.8	166
13	The progressive routes for carbon capture and sequestration. <i>Energy Science and Engineering</i> , 2016, 4, 99-122.	1.9	136
14	Insights on pathways for hydrogen generation from ethanol. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1232-1245.	2.5	120
15	Subcritical and supercritical water gasification of lignocellulosic biomass impregnated with nickel nanocatalyst for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 4907-4921.	3.8	107
16	Fermentative production of butanol: Perspectives on synthetic biology. <i>New Biotechnology</i> , 2017, 37, 210-221.	2.4	107
17	Valorization of horse manure through catalytic supercritical water gasification. <i>Waste Management</i> , 2016, 52, 147-158.	3.7	104
18	Esterification of Levulinic Acid to n-Butyl Levulinate Over Various Acidic Zeolites. <i>Catalysis Letters</i> , 2013, 143, 1220-1225.	1.4	99

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19	Butanol and ethanol production from lignocellulosic feedstock: biomass pretreatment and bioconversion. <i>Energy Science and Engineering</i> , 2014, 2, 138-148.	1.9	94
20	Hydrothermal gasification of soybean straw and flax straw for hydrogen-rich syngas production: Experimental and thermodynamic modeling. <i>Energy Conversion and Management</i> , 2020, 208, 112545.	4.4	92
21	Supercritical water gasification of fructose as a model compound for waste fruits and vegetables. <i>Journal of Supercritical Fluids</i> , 2015, 104, 112-121.	1.6	87
22	An assessment of pinecone gasification in subcritical, near-critical and supercritical water. <i>Fuel Processing Technology</i> , 2017, 168, 84-96.	3.7	87
23	Supercritical water gasification of timothy grass as an energy crop in the presence of alkali carbonate and hydroxide catalysts. <i>Biomass and Bioenergy</i> , 2016, 95, 378-387.	2.9	86
24	Next-generation biofuels and platform biochemicals from lignocellulosic biomass. <i>International Journal of Energy Research</i> , 2021, 45, 14145-14169.	2.2	79
25	Subcritical and supercritical water gasification of humic acid as a model compound of humic substances in sewage sludge. <i>Journal of Supercritical Fluids</i> , 2017, 119, 130-138.	1.6	77
26	Physico-Chemical Properties of Bio-Oils from Pyrolysis of Lignocellulosic Biomass with High and Slow Heating Rate. <i>Energy and Environment Research</i> , 2014, 4, .	0.1	76
27	Optimization and modeling of process parameters during hydrothermal gasification of biomass model compounds to generate hydrogen-rich gas products. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18275-18288.	3.8	70
28	Catalytic gasification of wheat straw in hot compressed (subcritical and supercritical) water for hydrogen production. <i>Energy Science and Engineering</i> , 2018, 6, 448-459.	1.9	69
29	Catalytic gasification of cellulose and pinewood to H ₂ in supercritical water. <i>Fuel</i> , 2014, 118, 416-425.	3.4	67
30	Characteristic Studies on the Pyrolysis Products from Hydrolyzed Canadian Lignocellulosic Feedstocks. <i>Bioenergy Research</i> , 2014, 7, 174-191.	2.2	64
31	Supercritical water gasification of glycerol and methanol mixtures as model waste residues from biodiesel refinery. <i>Chemical Engineering Research and Design</i> , 2016, 113, 17-27.	2.7	64
32	Supercritical Water Gasification of Lactose as a Model Compound for Valorization of Dairy Industry Effluents. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 9296-9306.	1.8	63
33	Metal-organic framework-based functional catalytic materials for biodiesel production: a review. <i>Green Chemistry</i> , 2021, 23, 2595-2618.	4.6	60
34	Modeling and process optimization of hydrothermal gasification for hydrogen production: A comprehensive review. <i>Journal of Supercritical Fluids</i> , 2021, 173, 105199.	1.6	60
35	Effect of acidic pretreatment on the chemistry and distribution of lignin in aspen wood and wheat straw substrates. <i>Biomass and Bioenergy</i> , 2016, 91, 56-68.	2.9	58
36	Catalytic gasification of glucose to H ₂ in supercritical water. <i>Fuel Processing Technology</i> , 2014, 127, 33-40.	3.7	55

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37	Lignocellulosic Biomass: A Review of Conversion Technologies and Fuel Products. <i>Current Biochemical Engineering</i> , 2015, 3, 24-36.	1.3	53
38	Techno-economic evaluation and sensitivity analysis of a conceptual design for supercritical water gasification of soybean straw to produce hydrogen. <i>Bioresource Technology</i> , 2021, 331, 125005.	4.8	52
39	Contaminant source identification within a building: Toward design of immune buildings. <i>Building and Environment</i> , 2012, 51, 320-329.	3.0	50
40	Investigating the applicability of Athabasca bitumen as a feedstock for hydrogen production through catalytic supercritical water gasification. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 182-189.	3.3	50
41	Lewis acid catalyzed gasification of humic acid in supercritical water. <i>Catalysis Today</i> , 2017, 291, 13-23.	2.2	47
42	PDMS/camphor soot composite coating: towards a self-healing and a self-cleaning superhydrophobic surface. <i>RSC Advances</i> , 2017, 7, 15027-15040.	1.7	43
43	Comparative evaluation for catalytic gasification of petroleum coke and asphaltene in subcritical and supercritical water. <i>Journal of Energy Chemistry</i> , 2019, 31, 107-118.	7.1	43
44	Ignition of hydrothermal flames. <i>RSC Advances</i> , 2015, 5, 36404-36422.	1.7	42
45	Wrinkling Non-Spherical Particles and Its Application in Cell Attachment Promotion. <i>Scientific Reports</i> , 2016, 6, 30463.	1.6	42
46	Catalytic subcritical and supercritical water gasification as a resource recovery approach from waste tires for hydrogen-rich syngas production. <i>Journal of Supercritical Fluids</i> , 2019, 154, 104627.	1.6	41
47	Supercritical water gasification of biomass in diamond anvil cells and fluidized beds. <i>Biofuels, Bioproducts and Biorefining</i> , 2014, 8, 728-737.	1.9	35
48	Catalytic Supercritical Water Gasification of Soybean Straw: Effects of Catalyst Supports and Promoters. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 5770-5782.	1.8	31
49	MODELING MECHANICAL CELL DAMAGE IN THE BIOPRINTING PROCESS EMPLOYING A CONICAL NEEDLE. <i>Journal of Mechanics in Medicine and Biology</i> , 2015, 15, 1550073.	0.3	29
50	Biomass, availability in Canada, and gasification: an overview. <i>Biomass Conversion and Biorefinery</i> , 2012, 2, 73-85.	2.9	28
51	Physico-Chemical Evolution in Lignocellulosic Feedstocks During Hydrothermal Pretreatment and Delignification. <i>Journal of Biobased Materials and Bioenergy</i> , 2015, 9, 295-308.	0.1	25
52	Eco-friendly Transformation of Waste Biomass to Biofuels. <i>Current Biochemical Engineering</i> , 2020, 6, 120-134.	1.3	25
53	Deactivation Studies of Alkali-Promoted Trimetallic Co ²⁺ Rh ³⁺ Mo Sulfide Catalysts for Higher Alcohols Synthesis from Synthesis Gas. <i>Energy & Fuels</i> , 2011, 25, 580-590.	2.5	24
54	Impacts of oxidant characteristics on the ignition of n-propanol-air hydrothermal flames in supercritical water. <i>Combustion and Flame</i> , 2019, 203, 46-55.	2.8	23

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55	Development of Dual-Phobic Surfaces: Superamphiphobicity in Air and Oleophobicity Underwater. ACS Sustainable Chemistry and Engineering, 2017, 5, 6716-6726.	3.2	21
56	Catalytic hydrothermal co-gasification of canola meal and low-density polyethylene using mixed metal oxides for hydrogen production. International Journal of Hydrogen Energy, 2022, 47, 42084-42098.	3.8	18
57	Gasification of Canola Meal and Factors Affecting Gasification Process. Bioenergy Research, 2014, 7, 1131-1143.	2.2	16
58	Optimization studies for hydrothermal gasification of partially burnt wood from forest fires for hydrogen-rich syngas production using Taguchi experimental design. Environmental Pollution, 2021, 283, 117040.	3.7	15
59	Biosorption of Lead Ions from Aqueous Solution Using <i>Ficus benghalensis</i> L.. Journal of Engineering (United States), 2013, 2013, 1-8.	0.5	13
60	Fabrication of Highly Porous Nonspherical Particles Using Stop-Flow Lithography and the Study of Their Optical Properties. Langmuir, 2017, 33, 184-190.	1.6	10
61	A microfluidic approach for the synthesis and assembly of multi-scale porous membranes. RSC Advances, 2015, 5, 100024-100029.	1.7	9
62	Hydrothermal flames for subaquatic, terrestrial and extraterrestrial applications. Journal of Hazardous Materials, 2022, 424, 127520.	6.5	9
63	A Spotlight on Butanol and Propanol as Next-Generation Synthetic Fuels. , 2020, , 105-126.		7
64	Catalytic and Noncatalytic Upgrading of Bio-Oil to Synthetic Fuels: An Introductory Review. ACS Symposium Series, 2021, , 1-28.	0.5	6
65	Butanol from Renewable Biomass: Highlights of Downstream Processing and Recovery Techniques. , 2017, , 187-211.		6
66	An Innovative Fuzzy-Neural Decision Analyzer for Qualitative Group Decision Making. International Journal of Information Technology and Decision Making, 2015, 14, 659-696.	2.3	5
67	An appraisal on biochar functionality and utility in agronomy. , 2018, , 389-410.		5
68	In situ synchrotron-based X-ray powder diffraction and micro-Raman study of biomass and residue model compounds at hydrothermal conditions. Energy Science and Engineering, 2015, 3, 189-195.	1.9	3
69	CHAPTER 19. Hydrothermal Events Occurring During Gasification in Supercritical Water. RSC Green Chemistry, 2018, , 560-587.	0.0	3
70	Novel Ni-Co-Mo-K Catalysts Supported on Multiwalled Carbon Nanotubes for Higher Alcohols Synthesis. Journal of Catalysts, 2013, 2013, 1-7.	0.5	2
71	Hydrothermal processing of waste pine wood into industrially useful products. Journal of the Indian Chemical Society, 2022, 99, 100647.	1.3	2
72	Excluded-Mean-Variance Neural Decision Analyzer for Qualitative Group Decision Making. Advances in Fuzzy Systems, 2012, 2012, 1-10.	0.6	1