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A study of lignocellulosic biomass pyrolysis via the pyrolysis of cellulose, hemicellulose and lignin

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490	Effect of interactions of biomass constituents on polycyclic aromatic hydrocarbons (PAH) formation during fast pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2014</b> , 110, 264-269	6	27
489	A comparative investigation into the formation behaviors of char, liquids and gases during pyrolysis of pinewood and lignocellulosic components. <i>Bioresource Technology</i> , <b>2014</b> , 170, 262-269	11	35
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332	Effect of volatiles interaction during pyrolysis of cellulose, hemicellulose, and lignin at different temperatures. <i>Fuel</i> , <b>2019</b> , 248, 1-7	7.1	40
331	Char production technology. <b>2019</b> , 39-68		4
330	Detailed structural elucidation of different lignocellulosic biomass types using optimized temperature and time profiles in fractionated Py-GC/MS. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2019</b> , 140, 112-124	6	9
329	A Kinetic Study on Combustible Coastal Debris Pyrolysis via Thermogravimetric Analysis. <b>2019</b> , 12, 836		4
328	A sustainable approach to produce activated carbons from pecan nutshell waste for environmentally friendly supercapacitors. <b>2019</b> , 148, 403-412		49
327	Production, Characterization and Alternative Applications of Biochar. <b>2019</b> , 117-151		4
326	Optimized Preparation of High Value-Added Activated Carbon and Its Adsorption Properties for Methylene Blue. <b>2019</b> , 17,		3
325	Effects of heating rate and gas atmosphere on the pyrolysis and combustion characteristics of different crop residues and the kinetics analysis. <b>2019</b> , 175, 320-332		13
324	Unveiling the Pyrolysis Mechanisms of Hemicellulose: Experimental and Theoretical Studies. <i>Energy &amp; Emp; Fuels</i> , <b>2019</b> , 33, 4352-4360	4.1	26
323	In vitro evaluation of antimicrobial efficacy of pyroligneous acid from softwood mixture. <b>2019</b> , 3, 47-53		19
322	Comprehensive Kinetic Study on the Pyrolysis and Combustion Behaviours of Five Oil Palm Biomass by Thermogravimetric-Mass Spectrometry (TG-MS) Analyses. <b>2019</b> , 12, 370-387		6
321	Catalytic pyrolysis of poplar wood over transition metal oxides: Correlation of catalytic behaviors with physiochemical properties of the oxides. <b>2019</b> , 124, 125-141		40
320	Application of torrefaction for recycling bio-waste formed during anaerobic digestion. <i>Fuel</i> , <b>2019</b> , 243, 230-239	7.1	17
319	Levoglucosan and its hydrolysates via fast pyrolysis of lignocellulose for microbial biofuels: A state-of-the-art review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 105, 215-229	16.2	45
318	Assessment of energy potential of wood industry wastes through thermochemical conversions. <b>2019</b> , 87, 108-118		19
317	Pyrolytic kinetics, reaction mechanisms and products of waste tea via TG-FTIR and Py-GC/MS. <i>Energy Conversion and Management</i> , <b>2019</b> , 184, 436-447	10.6	90

316	Thermal enrichment of different types of biomass by low-temperature pyrolysis. Fuel, <b>2019</b> , 245, 29-38	7.1	30
315	Local Wood\\(\text{Bio-Oil Upgrading Using Non-sulfided (Co, Mo)/USY Catalyst. \(\textbf{2019}\), 578, 012012		1
314	Catalytic fast pyrolysis of lignin to produce aromatic hydrocarbons: optimal conditions and reaction mechanism <b>2019</b> , 9, 31960-31968		20
313	Porosity and surface chemistry development and thermal degradation of textile waste jute during recycling as activated carbon. <b>2019</b> , 21, 315-325		16
312	The effect of biomass pretreatment on catalytic pyrolysis products of pine wood by Py-GC/MS and principal component analysis. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2019</b> , 138, 145-153	6	50
311	Macro-TGA steam-assisted gasification of lignocellulosic wastes. <b>2019</b> , 233, 626-635		43
310	Magnetic cross-linked enzyme aggregates (MCLEAs) applied to biomass conversion. <b>2019</b> , 270, 58-70		12
309	Properties and thermal analysis of upgraded palm kernel shell and Mukah Balingian coal. <b>2019</b> , 167, 538	-547	13
308	Biochar for Anionic Contaminants Removal From Water. <b>2019</b> , 143-160		5
307	The multi-scale challenges of biomass fast pyrolysis and bio-oil upgrading: Review of the state of art and future research directions. <b>2019</b> , 71, 1-80		184
306	Pyrolytic behavior of lignocellulosic-based polysaccharides. <b>2019</b> , 137, 121-131		19
305	The potential of lignocellulosic biomass precursors for biochar production: Performance, mechanism and wastewater application review. <i>Industrial Crops and Products</i> , <b>2019</b> , 128, 405-423	5.9	127
304	Enhancing Lignocellulosic Biomass Hydrolysis by Hydrothermal Pretreatment, Extraction of Surface Lignin, Wet Milling and Production of Cellulolytic Enzymes. <b>2019</b> , 12, 1179-1195		46
303	Ex situ catalytic biomass pyrolysis using mesoporous Ti-MCM-41. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 5983-5989	5.1	6
302	Experimental study on the ignition characteristics of cellulose, hemicellulose, lignin and their mixtures. <b>2019</b> , 92, 1303-1312		33
301	A pilot-scale biomass pyrolytic poly-generation plant performance study and self-sufficiency assessment. <i>Bioresource Technology</i> , <b>2019</b> , 273, 439-445	11	
300	Investigate the interactions between biomass components during pyrolysis using in-situ DRIFTS and TGA. <b>2019</b> , 195, 767-776		32
299	Carbon emissions pinch analysis (CEPA) for energy sector planning in Nigeria. <b>2019</b> , 21, 93-108		16

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298	Slow pyrolysis of xylan as pentose model compound for hardwood hemicellulose: A study of the catalytic effect of Na ions. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2019</b> , 137, 266-275	6	12
297	Production of bio-fuels and chemicals by microwave-assisted, catalytic, hydrothermal liquefaction (MAC-HTL) of a mixture of pine and spruce biomass. <b>2019</b> , 21, 284-299		51
296	Comparative moisture and heat sorption properties of fibre and shiv derived from hemp and flax. <b>2019</b> , 26, 823-843		18
295	Comparative study on pyrolysis and catalytic pyrolysis upgrading of biomass model compounds: Thermochemical behaviors, kinetics, and aromatic hydrocarbon formation. <b>2019</b> , 92, 1348-1363		29
294	Comparative studies on the pyrolysis of cellulose, hemicellulose, and lignin based on combined kinetics. <b>2019</b> , 92, 27-37		99
293	Catalytic pyrolysis of agricultural and forestry wastes in a fixed-bed reactor using KCO as the catalyst. <b>2020</b> , 38, 78-87		4
292	Impacts of temperature on evolution of char structure during pyrolysis of lignin. 2020, 699, 134381		23
291	Synthesis of ZnO nanoparticle-anchored biochar composites for the selective removal of perrhenate, a surrogate for pertechnetate, from radioactive effluents. <b>2020</b> , 387, 121670		24
290	Catalytic pyrolysis of biomass with potassium compounds for Co-production of high-quality biofuels and porous carbons. <b>2020</b> , 190, 116431		31
289	Occurrence, formation, environmental fate and risks of environmentally persistent free radicals in biochars. <b>2020</b> , 134, 105172		54
288	Catalysis of sugarcane-bagasse pyrolysis by Co, Ni, and Cu single and mixed oxide nanocomposites. <b>2020</b> , 22, 1		2
287	Investigation of physicochemical properties of oil palm biomass for evaluating potential of biofuels production via pyrolysis processes. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 11, 1987	2.3	16
286	Investigation of coking behaviors of model compounds in bio-oil during steam reforming. <i>Fuel</i> , <b>2020</b> , 265, 116961	7.1	27
285	Liquefaction of alder wood as the source of renewable and sustainable polyols for preparation of polyurethane resins. <b>2020</b> , 54, 103-121		9
284	Hydrothermal liquefaction of crop straws: Effect of feedstock composition. Fuel, 2020, 265, 116946	7.1	36
283	Assessment of the self-sustained energy generation of an integrated first and second generation ethanol production from sugarcane through the characterization of the hydrolysis process residues. <i>Energy Conversion and Management</i> , <b>2020</b> , 203, 112267	10.6	12
282	Valorization of bio-based post-extraction residues of goldenrod and alfalfa as energy pellets. <b>2020</b> , 194, 116898		5
281	bio-FLASHCHAIN theory for rapid devolatilization of biomass 1. Lignin devolatilization. <i>Fuel</i> , <b>2020</b> , 263, 116649	7.1	6

280	Pyrolysis-catalytic hydrogenation of cellulose-hemicellulose-lignin and biomass agricultural wastes for synthetic natural gas production. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2020</b> , 145, 104753	6	28
279	Investigation of microwave-assisted pyrolysis of biomass with char in a rectangular waveguide applicator with built-in phase-shifting. <b>2020</b> , 259, 114217		34
278	Reinforcing agents based on cellulose fibers modified by insertion of end-alkyl groups obtained from pyrolytic bio-oil of sugarcane bagasse. <b>2020</b> , 77, 5711-5724		5
277	Pyrolysis of sludge and biomass residues. <b>2020</b> , 155-181		O
276	Bioenergy and emission characterizations of catalytic combustion and pyrolysis of litchi peels via TG-FTIR-MS and Py-GC/MS. <i>Renewable Energy</i> , <b>2020</b> , 148, 1074-1093	8.1	28
275	Selective conversion of lignocellulosic biomass into furan compounds using bimetal-modified bio-based activated carbon: Analytical Py-GCCC/MS. <b>2020</b> , 93, 2371-2380		3
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273	The effects of kraft lignin on the physicomechanical quality of briquettes produced with sugarcane bagasse and on the characteristics of the bio-oil obtained via slow pyrolysis. <b>2020</b> , 210, 106561		14
272	Oil palm lignin under subcritical phenol conditions as precursor for carbon fibre production. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	2.3	
271	Understanding the torrefaction of woody and agricultural biomasses through their extracted		
	macromolecular components. Part 1: Experimental thermogravimetric solid mass loss. <b>2020</b> , 205, 1180	67	8
270	macromolecular components. Part 1: Experimental thermogravimetric solid mass loss. <b>2020</b> , 205, 1180  Zeolite-related catalysts for biomass-derived sugar valorization. <b>2020</b> , 141-159	67	2
270 269		2.3	
ŕ	Zeolite-related catalysts for biomass-derived sugar valorization. <b>2020</b> , 141-159  Optimizing the catalytic performance of Ni-Ce/HZSM-5 catalyst for enriched C6t hydrocarbons in		2
269	Zeolite-related catalysts for biomass-derived sugar valorization. <b>2020</b> , 141-159  Optimizing the catalytic performance of Ni-Ce/HZSM-5 catalyst for enriched C6\(\text{L8}\) hydrocarbons in pyrolysis oil via response surface methodology. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1  Catalytic upgrading of biomass-derived pyrolysis vapour over metal-modified HZSM-5 into BTX: a	2.3	2
269 268	Zeolite-related catalysts for biomass-derived sugar valorization. 2020, 141-159  Optimizing the catalytic performance of Ni-Ce/HZSM-5 catalyst for enriched C6tt 8 hydrocarbons in pyrolysis oil via response surface methodology. <i>Biomass Conversion and Biorefinery</i> , 2020, 1  Catalytic upgrading of biomass-derived pyrolysis vapour over metal-modified HZSM-5 into BTX: a comprehensive review. <i>Biomass Conversion and Biorefinery</i> , 2020, 1  Kinetic studies in pyrolysis of garden waste in the context of downdraft gasification: Experiments	2.3	2 4
<ul><li>269</li><li>268</li><li>267</li></ul>	Zeolite-related catalysts for biomass-derived sugar valorization. 2020, 141-159  Optimizing the catalytic performance of Ni-Ce/HZSM-5 catalyst for enriched C6th hydrocarbons in pyrolysis oil via response surface methodology. <i>Biomass Conversion and Biorefinery</i> , 2020, 1  Catalytic upgrading of biomass-derived pyrolysis vapour over metal-modified HZSM-5 into BTX: a comprehensive review. <i>Biomass Conversion and Biorefinery</i> , 2020, 1  Kinetic studies in pyrolysis of garden waste in the context of downdraft gasification: Experiments and modeling. 2020, 208, 118427  Generation of biofuels by slow pyrolysis of palm empty fruit bunches: Optimization of process	2.3	2 4 5
<ul><li>269</li><li>268</li><li>267</li><li>266</li></ul>	Zeolite-related catalysts for biomass-derived sugar valorization. 2020, 141-159  Optimizing the catalytic performance of Ni-Ce/HZSM-5 catalyst for enriched C6\( \text{L8} \) hydrocarbons in pyrolysis oil via response surface methodology. Biomass Conversion and Biorefinery, 2020, 1  Catalytic upgrading of biomass-derived pyrolysis vapour over metal-modified HZSM-5 into BTX: a comprehensive review. Biomass Conversion and Biorefinery, 2020, 1  Kinetic studies in pyrolysis of garden waste in the context of downdraft gasification: Experiments and modeling. 2020, 208, 118427  Generation of biofuels by slow pyrolysis of palm empty fruit bunches: Optimization of process variables and characterization of physical-chemical products. 2020, 140, 105707  A facile synthesis of nitrogen-doped porous carbons from lignocellulose and protein wastes for	2.3	2 2 4 5

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262	Characterisation and composition identification of waste-derived fuels obtained from municipal solid waste using thermogravimetry: A review. <b>2020</b> , 38, 942-965		20
261	Structural and Thermal Characterization of Novel Organosolv Lignins from Wood and Herbaceous Sources. <b>2020</b> , 8, 860		10
260	Effects of Glucose on Nitrogen Retention and Transformation during Copyrolysis with Fiberboard Waste. <i>Energy &amp; Copyrolysis Waste</i> , 2020, 34, 11083-11090	[	5
259	Sustainable production of self-activated bio-derived carbons through solar pyrolysis for their use in supercapacitors. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2020</b> , 150, 104901		13
258	Co-pyrolysis of sewage sludge and rice husk by TGETIRMS: Pyrolysis behavior, kinetics, and condensable/non-condensable gases characteristics. <i>Renewable Energy</i> , <b>2020</b> , 160, 1048-1066	[	58
257	Biomass-derived activated carbons for the removal of pharmaceutical mircopollutants from wastewater: A review. <b>2020</b> , 253, 117536		58
256	Study of Thermochemical Transformations of Bast of Birch Bark, Structure and Properties of the Produced Porous Carbon Materials. <b>2020</b> , 93, 1349-1358		
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253	Biochar from pyrolysis of rice husk biomassEharacteristics, modification and environmental application. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	;	17
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248	Thermogravimetric analyses (TGA) of three oil palm biomass pyrolysis: Kinetics and reaction mechanisms. <b>2020</b> , 778, 012100		О
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246	Assessment of lignin as a carbon source in intumescent coatings containing polyaniline. <b>2020</b> , 17, 1297-130	)7	5
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241	Experimental and theoretical study of the thermal decomposition of ethyl acetate during fast pyrolysis. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 157, 153-161	5.5	7
240	Kinetic analysis and thermodynamics properties of air/steam gasification of agricultural waste. <b>2020</b> , 8, 103829		35
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237	Pyrolytic conversion of perennial grasses and woody shrubs to energy and chemicals. <b>2020</b> , 2, 1		3
236	Practices and Perspectives in Sustainable Bioenergy. <b>2020</b> ,		1
235	Homogeneous and Heterogeneous Catalysis Impact on Pyrolyzed Cellulose to Produce Bio-Oil. <i>Catalysts</i> , <b>2020</b> , 10, 178	4	6
234	Hemicellulose pyrolysis mechanism based on functional group evolutions by two-dimensional perturbation correlation infrared spectroscopy. <i>Fuel</i> , <b>2020</b> , 267, 117302	7.1	30
233	Changes in wood smoke volatile composition by manipulating the smoke generation conditions. Journal of Analytical and Applied Pyrolysis, <b>2020</b> , 148, 104769	6	3
232	Influence of temperature and time on initial pyrolysis of cellulose and xylan. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2020</b> , 147, 104782	6	32
231	Apricot kernel shells pyrolysis controlled by non-isothermal simultaneous thermal analysis (STA). <b>2020</b> , 142, 565-579		6
230	Thermal interaction analysis of isolated hemicellulose and cellulose by kinetic parameters during biomass pyrolysis. <b>2020</b> , 195, 117010		53
229	Assessing thermal behaviours of cellulose and poly(methyl methacrylate) during co-pyrolysis based on an unified thermoanalytical study. <i>Bioresource Technology</i> , <b>2020</b> , 300, 122700	11	13
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226	The role of alkali metal and alkaline metal earth in natural zeolite on combustion of Albizia Falcataria sawdust. <b>2020</b> , 11, 219-227		2
225	Effect of carbon structure on hydrogen release derived from different biomass pyrolysis. <i>Fuel</i> , <b>2020</b> , 271, 117638	7.1	15
224	Co-pyrolysis of Baiyinhua lignite and pine in an infrared-heated fixed bed to improve tar yield. <i>Fuel</i> , <b>2020</b> , 272, 117739	7.1	13
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222	Preparation of bio-oil-based polymer microspheres for adsorption Cu2+ and its adsorption behaviors. <b>2021</b> , 42, 1021-1030		2
221	Effect of cellulosellgnin interactions on char structural changes during fast pyrolysis at 100B50 LC. <b>2021</b> , 38, 3977-3986		5
220	Progress in microwave pyrolysis conversion of agricultural waste to value-added biofuels: A batch to continuous approach. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 135, 110148	16.2	96
219	A comparative production and characterisation of fast pyrolysis bio-oil from Populus and Spruce woods. <b>2021</b> , 214, 118930		13
218	Optimizing bioenergy and by-product outputs from durian shell pyrolysis. <i>Renewable Energy</i> , <b>2021</b> , 164, 407-418	8.1	9
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213	Conversion and transformation of N species during pyrolysis of wood-based panels: A review. <b>2021</b> , 270, 116120		16
212	Nanocomposites based on the cellulose extracted from the Amazon Peperomia pellucida and polyaniline derivatives: structural and thermal properties. <b>2021</b> , 75, 1809-1821		1
211	Understanding the enhanced production of poly-aromatic hydrocarbons during the pyrolysis of lignocellulosic biomass components under pressurized entrained-flow conditions. <b>2021</b> , 213, 106645		3
210	A comparative study on valuable products: bio-oil, biochar, non-condensable gases from pyrolysis of agricultural residues. <b>2021</b> , 23, 186-204		19
209	Hydrothermal vs. dilute acid pre-treatments: comparison of the biomass properties, distribution of pyrolysis products, and bio-oil characteristics. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	1

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204	Recent progress on bio-succinic acid production from lignocellulosic biomass. <b>2021</b> , 37, 16	17
203	Changes in soil carbon and nitrogen accessibility with the application of biochars with different morphological and physical characteristics. <b>2021</b> , 21, 1644-1658	O
202	Multiple-distribution DAEM modelling of spruce pyrolysis: An investigation of the best trade-off regarding the number and shape of distributions. <i>Energy Conversion and Management</i> , <b>2021</b> , 229, 113756.	4
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200	Assessment of pyrolysis-kinetics of corncob and eucalyptus biomass residue using thermo gravimetric analysis. <b>2021</b> , 40, 910-922	O
199	Rapid Evaluation of Biomass Properties Used for Energy Purposes Using Near-Infrared Spectroscopy.	1
198	Study on thermochemical characteristics properties and pyrolysis kinetics of the mixtures of waste corn stalk and pyrolusite. <i>Bioresource Technology</i> , <b>2021</b> , 324, 124660	16
197	A Review of Bio-Oil Production through Microwave-Assisted Pyrolysis. <b>2021</b> , 9, 561	7
196	Impact of cellulose properties on its behavior in torrefaction: commercial microcrystalline cellulose versus cotton linters and celluloses extracted from woody and agricultural biomass. <b>2021</b> , 28, 4761-4779	3
195	A review on catalytic pyrolysis for high-quality bio-oil production from biomass. <i>Biomass Conversion and Biorefinery</i> , 1	10
194	Cross-interaction of volatiles from co-pyrolysis of lignin with pig manure and their effects on properties of the resulting biochar. <b>2021</b> , 3, 391-405	1
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192	Tailoring of the pore structures of wood pyrolysis chars for potential use in energy storage applications. <b>2021</b> , 286, 116431	10
191	Auto-classification of biomass through characterization of their pyrolysis behaviors using thermogravimetric analysis with support vector machine algorithm: case study for tobacco. <b>2021</b> , 14, 106	3

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189	Isoconversional kinetic analysis of overlapped pyrolysis reactions: The case of lignocellulosic biomass and blends with anthracite. <b>2021</b> , 95, 143-153		5
188	Prediction of yields and composition of char from fast pyrolysis of commercial lignocellulosic materials, organosolv fractionated and torrefied olive stones. <i>Fuel</i> , <b>2021</b> , 289, 119862	7.1	12
187	Direct catalytic conversion of bagasse fibers to furan building blocks in organic and ionic solvents. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	1
186	Effect of Process Parameters on the Production of Pyrolytic Products from Biomass Through Pyrolysis. <b>2021</b> , 231-284		1
185	Opportunities and barriers for biofuel and bioenergy production from poplar. <b>2021</b> , 13, 905-913		1
184	Prediction of lignocellulosic biomass structural components from ultimate/proximate analysis. <b>2021</b> , 222, 119945		7
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182	Dynamics of hydrogen loss and structural changes in pyrolyzing biomass utilizing neutron imaging. <b>2021</b> , 176, 511-529		2
181	Co-pyrolysis of lemongrass waste and residual cooking oil in a fixed bed reactor. <b>2021</b> , 765, 012014		О
180	Combustion Characteristics and Kinetic Analysis of Biomass Pellet Fuel Using Thermogravimetric Analysis. <b>2021</b> , 9, 868		6
179	Sugarcane Bagasse Torrefaction for Fluidized Bed Gasification. <b>2021</b> , 11, 6105		1
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173	Treatment of wood fibres with laccases: improved hardboard properties through phenolic oligomerization. <b>2021</b> , 79, 1369		2

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170	Extinction of Wood Fire: A Near-Limit Blue Flame Above Hot Smoldering Surface. 1		4
169	Pyrolysis of Forestry Waste in a Screw Reactor with Four Sequential Heating Zones: Influence of Isothermal and Nonisothermal Profiles.		2
168	Valorization of rubberwood sawdust and sewage sludge by pyrolysis and co-pyrolysis using agitated bed reactor for producing biofuel or value-added products. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 29, 1338	5.1	3
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163	Experimental Investigation on the Supercritical Rapeseed Methanolysis for Biofuel Production: Effects of the Operating Conditions on the Bio-oil Viscosity. 1		
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156	Influence of components interaction on pyrolysis and explosion of biomass dust. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 154, 384-392	5.5	4
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123	Non-Isothermal Pyrolysis Kinetic Studies of Kraft Pulp Mill Sludge and Its Blending with Coal Powder. <b>2019</b> , 9, 39	
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