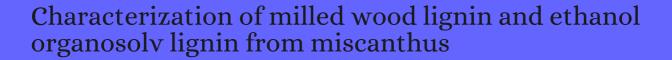
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#	Paper	IF	Citations
388	Effects of process severity on the chemical structure of Miscanthus ethanol organosolv lignin. <i>Polymer Degradation and Stability</i> , 2010 , 95, 997-1003	4.7	183
387	Investigation of the chemical modifications of beech wood lignin during heat treatment. <i>Polymer Degradation and Stability</i> , 2010 , 95, 1721-1726	4.7	104
386	Effect of autohydrolysis of Miscanthus x giganteus on lignin structure and organosolv delignification. <i>Bioresource Technology</i> , 2010 , 101, 9321-9	11	130
385	Chemical Transformations of Buddleja davidii Lignin during Ethanol Organosolv Pretreatment. 2010 , 24, 2723-2732		108
384	Extraction, Characterization and Utilization of Organosolv Miscanthus Lignin for the Conception of Environmentally Friendly Mixed Tannin/Lignin Wood Resins. 2011 , 25, 1549-1560		25
383	Biomass fractionation for the biorefinery: heteronuclear multiple quantum coherence-nuclear magnetic resonance investigation of lignin isolated from solvent fractionation of switchgrass. Journal of Agricultural and Food Chemistry, 2011, 59, 9232-42	5.7	74
382	Biobased Chemicals and Polymers. 2011 , 275-309		1
381	Application of quantitative 31P NMR in biomass lignin and biofuel precursors characterization. 2011 , 4, 3154		353
3 80	Lignin oxidation mechanisms under oxygen delignification conditions. Part 2: Advanced methods for the detailed characterization of lignin oxidation mechanisms. <i>Holzforschung</i> , 2011 , 65,	2	16
379	Structural analysis of alfa grass (Stipa tenacissima L.) lignin obtained by acetic acid/formic acid delignification. 2011 , 12, 3895-902		64
378	The effect of ionic liquid cation and anion combinations on the macromolecular structure of lignins. <i>Green Chemistry</i> , 2011 , 13, 3375	10	118
377	Impact of formic/acetic acid and ammonia pre-treatments on chemical structure and physico-chemical properties of Miscanthus x giganteus lignins. <i>Polymer Degradation and Stability</i> , 2011 , 96, 1761-1770	4.7	65
376	Evaluation and optimization of organosolv pretreatment using combined severity factors and response surface methodology. 2011 , 35, 4025-4033		69
375	Structural features of lignin macromolecules extracted with ionic liquid from poplar wood. <i>Bioresource Technology</i> , 2011 , 102, 9020-5	11	127
374	Comparative characterization of milled wood lignin from furfural residues and corncob. <i>Chemical Engineering Journal</i> , 2011 , 175, 176-184	14.7	89
373	Chemical and structural characterization of lignins isolated from Caragana sinica. 2011 , 12, 316-323		9
372	Use of polyoxometalate catalysts in ionic liquids to enhance the dissolution and delignification of woody biomass. 2011 , 4, 65-73		63

371	Chemical and thermal properties of lignins from oil palm biomass as a substitute for phenol in a phenol formaldehyde resin production. <i>Carbohydrate Polymers</i> , 2011 , 86, 112-119	10.3	149
370	Bioconversion of sugarcane biomass into ethanol: an overview about composition, pretreatment methods, detoxification of hydrolysates, enzymatic saccharification, and ethanol fermentation. 2012 , 2012, 989572		278
369	Organosolv Fractionation of Lignocelluloses for Fuels, Chemicals and Materials: A Biorefinery Processing Perspective. 2012 , 341-379		9
368	Lignin as Source of Fine Chemicals: Vanillin and Syringaldehyde. 2012 , 381-420		36
367	Characterization of Structural Changes of Lignin in the Process of Cooking of Bagasse with Solid Alkali and Active Oxygen as a Pretreatment for Lignin Conversion. 2012 , 26, 6999-7004		16
366	Ethanol organosolv lignin-based rigid polyurethane foam reinforced with cellulose nanowhiskers. 2012 , 2, 3347		97
365	Structural characterization of lignin in the process of cooking of cornstalk with solid alkali and active oxygen. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 4656-61	5.7	16
364	Mild acetosolv process to fractionate bamboo for the biorefinery: structural and antioxidant properties of the dissolved lignin. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 1703-12	5.7	37
363	Structural Characterization of Switchgrass Lignin after Ethanol Organosolv Pretreatment. 2012, 26, 74	0-745	107
362	Characterization of Miscanthus giganteus lignin isolated by ethanol organosolv process under reflux condition. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 8203-12	5.7	165
361	Dissolution of Pinus radiata and Eucalyptus globulus woods in ionic liquids under microwave radiation: Lignin regeneration and characterization. 2012 , 97, 115-122		64
360	Infrared spectroscopy as alternative to wet chemical analysis to characterize Eucalyptus globulus pulps and predict their ethanol yield for a simultaneous saccharification and fermentation process. 2012 , 168, 2028-42		9
359	Delignification of Miscanthus by Extraction. 2012 , 47, 370-376		6
358	Miscanthus: a fast-growing crop for biofuels and chemicals production. 2012 , 6, 580-598		298
357	Analysis of the biomass content of various Miscanthus genotypes for biofuel production in Korea. 2012 , 38, 46-49		44
356	Selective pyrolysis of Organosolv lignin over zeolites with product analysis by TG-FTIR. 2012 , 95, 112-1	17	78
355	Effect of lignin-derived and furan compounds found in lignocellulosic hydrolysates on biomethane production. <i>Bioresource Technology</i> , 2012 , 104, 90-9	11	174
354	Evaluation of the effect of ultrasound on organosolv black liquor from olive tree pruning residues. <i>Bioresource Technology</i> , 2012 , 108, 155-61	11	32

353	Combination of enzymatic hydrolysis and ethanol organosolv pretreatments: effect on lignin structures, delignification yields and cellulose-to-glucose conversion. <i>Bioresource Technology</i> , 2012 , 112, 156-63	11	95
352	Isolation and characterization of herbaceous lignins for applications in biomaterials. 2013 , 41, 356-364		153
351	Structural, thermal and rheological behavior of a bio-based phenolic resin in relation to a commercial resol resin. 2013 , 42, 308-314		55
350	Structural analysis of lignin residue from black liquor and its thermal performance in thermogravimetric-Fourier transform infrared spectroscopy. <i>Bioresource Technology</i> , 2013 , 128, 633-9	11	75
349	Physicochemical characterization of alkaline and ethanol organosolv lignins from oil palm (Elaeis guineensis) fronds as phenol substitutes for green material applications. 2013 , 49, 23-32		73
348	Chemical reactivity of alkali lignin modified with laccase. 2013 , 55, 198-204		39
347	Mechanical, morphological and thermal properties of chitosan filled polypropylene composites: The effect of binary modifying agents. 2013 , 46, 89-95		37
346	Structural features and thermal degradation properties of various lignin macromolecules obtained from poplar wood (Populus albaglandulosa). <i>Polymer Degradation and Stability</i> , 2013 , 98, 1671-1678	4.7	59
345	Characterisation of spruce, salix, miscanthus and wheat straw for pyrolysis applications. <i>Bioresource Technology</i> , 2013 , 131, 202-9	11	41
344	Promising Unconventional Pretreatments for Lignocellulosic Biomass. 2013 , 43, 2140-2211		23
343	Solution-state 2D NMR spectroscopy of plant cell walls enabled by a dimethylsulfoxide-d6/1-ethyl-3-methylimidazolium acetate solvent. 2013 , 85, 3213-21		96
342	Characterization of lignin derived from water-only flowthrough pretreatment of Miscanthus. 2013 , 50, 391-399		39
341	A novel and efficient polymerization of lignosulfonates by horseradish peroxidase/H(2)O(2) incubation. 2013 , 97, 10309-20		42
340	Free-Radical Analysis on Thermochemical Transformation of Lignin to Phenolic Compounds. 2013 , 27, 285-293		82
339	Deconstruction of lignocellulosic biomass with ionic liquids. <i>Green Chemistry</i> , 2013 , 15, 550	10	1054
338	Recent Advances in Characterization of Lignin Polymer by Solution-State Nuclear Magnetic Resonance (NMR) Methodology. <i>Materials</i> , 2013 , 6, 359-391	3.5	446
337	Effect of different pretreatments on delignification pattern and enzymatic hydrolysability of miscanthus, oil palm biomass and typha grass. <i>Bioresource Technology</i> , 2013 , 135, 82-8	11	36
336	Impact of the lignin structure of three lignocellulosic feedstocks on their organosolv delignification. Effect of carbonium ion scavengers. 2013 , 52, 151-158		22

335	Effect of the photocatalytic activity of TiOlbn lignin depolymerization. <i>Chemosphere</i> , 2013 , 91, 1355-61 8.4	43
334	Plant Biomass Characterization: Application of Solution- and Solid-State NMR Spectroscopy. 2013 , 369-390	19
333	Fundamentals of Biomass Pretreatment by Fractionation. 2013 , 201-222	38
332	Revealing the chemistry of biomass pyrolysis by means of tunable synchrotron photoionisation-mass spectrometry. 2013 , 3, 4786	42
331	Lignin extraction and purification with ionic liquids. 2013 , 88, 1248-1257	41
330	Quantitative structures and thermal properties of birch lignins after ionic liquid pretreatment. Journal of Agricultural and Food Chemistry, 2013 , 61, 635-45	138
329	Effect of Polycondensation Conditions on Structure and Thermal Properties of Poly(caffeic acid). 2013 , 237-249	7
328	Structural variation of bamboo lignin before and after ethanol organosolv pretreatment. 2013 , 14, 21394-413	3 63
327	Materials produced from plant biomass: part III: degradation kinetics and hydrogen bonding in lignin. 2013 , 16, 1065-1070	34
326	Enhancement of Lignin Biopolymer Isolation from Hybrid Poplar by Organosolv Pretreatments. 2014 , 2014, 1-10	22
325	Biomimetic metalloporphines and metalloporphyrins as potential tools for delignification: Molecular mechanisms and application perspectives. 2014 , 388-389, 2-34	37
324	Chemical Groups and Structural Characterization of Lignin via Thiol-Mediated Demethylation. Journal of Wood Chemistry and Technology, 2014 , 34, 122-134	37
323	Lignin valorization: improving lignin processing in the biorefinery. 2014 , 344, 1246843	2274
322	Chemical modification of lignins: Towards biobased polymers. 2014 , 39, 1266-1290	1140
321	Investigation on the structure and antioxidant properties of modified lignin obtained by different combinative processes of oil palm fronds (OPF) biomass. 2014 , 52, 544-551	46
320	Review: Oxidation of Lignin Using Ionic Liquids Innovative Strategy To Produce Renewable Chemicals. ACS Sustainable Chemistry and Engineering, 2014 , 2, 322-339	245
319	Switchable ionic liquids as delignification solvents for lignocellulosic materials. 2014 , 7, 1170-6	60
318	Physicochemical characterization of ethanol organosolv lignin (EOL) from Eucalyptus globulus: Effect of extraction conditions on the molecular structure. <i>Polymer Degradation and Stability</i> , 2014 , 4.7 110 184-194	62

317	Effect of temperature during wood torrefaction on the formation of lignin liquid intermediates. 2014 , 109, 222-233		62
316	Predicting enzyme adsorption to lignin films by calculating enzyme surface hydrophobicity. 2014 , 289, 20960-9		91
315	Impact of catalytic oil palm fronds (OPF) pulping on organosolv lignin properties. <i>Polymer Degradation and Stability</i> , 2014 , 109, 33-39	4.7	20
314	Understanding pretreatment efficacy of four cholinium and imidazolium ionic liquids by chemistry and computation. <i>Green Chemistry</i> , 2014 , 16, 2546-2557	10	117
313	Depolymerization and decolorization of kraft lignin by bacterium Comamonas sp. B-9. 2014 , 98, 1907-1	2	29
312	Emerging strategies for breaking the 3D amorphous network of lignin. 2014 , 4, 3785-3799		84
311	Chitosan-filled polypropylene composites: The effect of filler loading and organosolv lignin on mechanical, morphological and thermal properties. 2014 , 15, 800-808		23
310	An experimental comparison of lignin yield from the Klason and Willstatter extraction methods. 2014 , 23, 78-84		13
309	Effect of different organosolv treatments on the structure and properties of olive tree pruning lignin. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 1103-1108	6.3	61
308	Characterization and analysis of the molecular weight of lignin for biorefining studies. 2014 , 8, 836-856		243
308 307	Characterization and analysis of the molecular weight of lignin for biorefining studies. 2014 , 8, 836-856 Comparison of the pyrolysis behavior of pyrolytic lignin and milled wood lignin by using TGETIR analysis. 2014 , 108, 78-85		243 138
	Comparison of the pyrolysis behavior of pyrolytic lignin and milled wood lignin by using TGETIR		
307	Comparison of the pyrolysis behavior of pyrolytic lignin and milled wood lignin by using TGBTIR analysis. 2014 , 108, 78-85 Differences in the adsorption of enzymes onto lignins from diverse types of lignocellulosic biomass		138
307	Comparison of the pyrolysis behavior of pyrolytic lignin and milled wood lignin by using TGETIR analysis. 2014 , 108, 78-85 Differences in the adsorption of enzymes onto lignins from diverse types of lignocellulosic biomass and the underlying mechanism. 2014 , 7, 38 The Influence of Heat and Two Stages Precipitation in the Process of Natural Polymer Purification	2.9	138
307 306 305	Comparison of the pyrolysis behavior of pyrolytic lignin and milled wood lignin by using TGETIR analysis. 2014, 108, 78-85 Differences in the adsorption of enzymes onto lignins from diverse types of lignocellulosic biomass and the underlying mechanism. 2014, 7, 38 The Influence of Heat and Two Stages Precipitation in the Process of Natural Polymer Purification from the Byproduct of Bioethanol Process Base on Empty Palm Fruit Bunch. 2015, 1123, 177-181 Characterization of four different lignins as a first step toward the identification of suitable		138
307 306 305 304	Comparison of the pyrolysis behavior of pyrolytic lignin and milled wood lignin by using TGETIR analysis. 2014, 108, 78-85 Differences in the adsorption of enzymes onto lignins from diverse types of lignocellulosic biomass and the underlying mechanism. 2014, 7, 38 The Influence of Heat and Two Stages Precipitation in the Process of Natural Polymer Purification from the Byproduct of Bioethanol Process Base on Empty Palm Fruit Bunch. 2015, 1123, 177-181 Characterization of four different lignins as a first step toward the identification of suitable end-use applications. <i>Journal of Applied Polymer Science</i> , 2015, 132, n/a-n/a		138 132
307 306 305 304 303	Comparison of the pyrolysis behavior of pyrolytic lignin and milled wood lignin by using TGBTIR analysis. 2014, 108, 78-85 Differences in the adsorption of enzymes onto lignins from diverse types of lignocellulosic biomass and the underlying mechanism. 2014, 7, 38 The Influence of Heat and Two Stages Precipitation in the Process of Natural Polymer Purification from the Byproduct of Bioethanol Process Base on Empty Palm Fruit Bunch. 2015, 1123, 177-181 Characterization of four different lignins as a first step toward the identification of suitable end-use applications. <i>Journal of Applied Polymer Science</i> , 2015, 132, n/a-n/a Miscanthus as cellulosic biomass for bioethanol production. 2015, 10, 840-54 Isolation of Natural Polymer from the By-Product of Hydrolysis of Oil Palm Empty Fruit Bunch for		138 132 19 89

(2015-2015)

299	Investigation of grafted sulfonated alkali lignin polymer as dispersant in coal-water slurry. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 27, 192-200	6.3	76
298	Characterization of lignin derived from water-only and dilute acid flowthrough pretreatment of poplar wood at elevated temperatures. 2015 , 8, 203		72
297	Enhanced properties of oil palm fronds (OPF) lignin fractions produced via tangential ultrafiltration technique. 2015 , 66, 1-10		26
296	Hydrothermal Liquefaction of Biomass. 2015 , 269-291		14
295	Effects of mesostructured silica catalysts on the depolymerization of organosolv lignin fractionated from woody eucalyptus. <i>Bioresource Technology</i> , 2015 , 180, 222-9	11	15
294	Comparison on structural modification of industrial lignin by wet ball milling and ionic liquid pretreatment. 2015 , 6, 1-7		46
293	Growth, metabolism of Phanerochaete chrysosporium and route of lignin degradation in response to cadmium stress in solid-state fermentation. <i>Chemosphere</i> , 2015 , 138, 560-7	8.4	19
292	Investigating the degradation process of kraft lignin by Eproteobacterium, Pandoraea sp. ISTKB. 2015 , 22, 15690-702		49
291	Improvement of lignin yield and purity from corncob in the presence of steam explosion and liquid hot pressured alcohol. 2015 , 5, 61650-61656		16
290	Lignin Deconstruction. 2015 , 125-155		1
290 289	Lignin preparation from oil palm empty fruit bunches by sequential acid/alkaline treatmentA	11	64
	Lignin preparation from oil palm empty fruit bunches by sequential acid/alkaline treatmentA biorefinery approach. <i>Bioresource Technology</i> , 2015 , 194, 172-8 Structural recognition of lignin isolated from bioenergy crops by subcritical water: ethanol	11 7.2	
289	Lignin preparation from oil palm empty fruit bunches by sequential acid/alkaline treatmentA biorefinery approach. <i>Bioresource Technology</i> , 2015 , 194, 172-8 Structural recognition of lignin isolated from bioenergy crops by subcritical water: ethanol		64
289	Lignin preparation from oil palm empty fruit bunches by sequential acid/alkaline treatmentA biorefinery approach. <i>Bioresource Technology</i> , 2015 , 194, 172-8 Structural recognition of lignin isolated from bioenergy crops by subcritical water: ethanol extraction. <i>Fuel Processing Technology</i> , 2015 , 138, 637-644 An overview on fast pyrolysis of the main constituents in lignocellulosic biomass to valued-added		64
289 288 287	Lignin preparation from oil palm empty fruit bunches by sequential acid/alkaline treatmentA biorefinery approach. <i>Bioresource Technology</i> , 2015 , 194, 172-8 Structural recognition of lignin isolated from bioenergy crops by subcritical water: ethanol extraction. <i>Fuel Processing Technology</i> , 2015 , 138, 637-644 An overview on fast pyrolysis of the main constituents in lignocellulosic biomass to valued-added chemicals: Structures, pathways and interactions. 2015 , 51, 761-774 Pd-catalyst assisted organosolv pretreatment to isolate ethanol organosolv lignin retaining	7.2	64 18 178
289 288 287 286	Lignin preparation from oil palm empty fruit bunches by sequential acid/alkaline treatmentA biorefinery approach. <i>Bioresource Technology</i> , 2015 , 194, 172-8 Structural recognition of lignin isolated from bioenergy crops by subcritical water: ethanol extraction. <i>Fuel Processing Technology</i> , 2015 , 138, 637-644 An overview on fast pyrolysis of the main constituents in lignocellulosic biomass to valued-added chemicals: Structures, pathways and interactions. 2015 , 51, 761-774 Pd-catalyst assisted organosolv pretreatment to isolate ethanol organosolv lignin retaining compatible characteristics for producing phenolic monomer. 2015 , 153, 40-47 Kraft delignification of energy crops in view of pulp production and lignin valorization. 2015 , 71, 153-162 Structural characterization of the solid residue produced by hydrothermal treatment of sunflower	7.2	64 18 178
289 288 287 286 285	Lignin preparation from oil palm empty fruit bunches by sequential acid/alkaline treatmentA biorefinery approach. <i>Bioresource Technology</i> , 2015 , 194, 172-8 Structural recognition of lignin isolated from bioenergy crops by subcritical water: ethanol extraction. <i>Fuel Processing Technology</i> , 2015 , 138, 637-644 An overview on fast pyrolysis of the main constituents in lignocellulosic biomass to valued-added chemicals: Structures, pathways and interactions. 2015 , 51, 761-774 Pd-catalyst assisted organosolv pretreatment to isolate ethanol organosolv lignin retaining compatible characteristics for producing phenolic monomer. 2015 , 153, 40-47 Kraft delignification of energy crops in view of pulp production and lignin valorization. 2015 , 71, 153-162 Structural characterization of the solid residue produced by hydrothermal treatment of sunflower stalks and subsequent enzymatic hydrolysis. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 ,	7.2	64 18 178 17

281	Bioconversion of oxygen-pretreated Kraft lignin to microbial lipid with oleaginous Rhodococcus opacus DSM 1069. <i>Green Chemistry</i> , 2015 , 17, 2784-2789	10	98
280	Catalytic Transformation of Lignin for the Production of Chemicals and Fuels. 2015 , 115, 11559-624		1600
279	Fractionation of corn stover into cellulose, hemicellulose and lignin using a series of ionic liquids. 2015 , 76, 688-696		100
278	Assay for lignin breakdown based on lignin films: insights into the Fenton reaction with insoluble lignin. <i>Green Chemistry</i> , 2015 , 17, 4830-4845	10	9
277	Structural changes in lignins isolated using an acidic ionic liquid water mixture. <i>Green Chemistry</i> , 2015 , 17, 5019-5034	10	120
276	Improved corrosion inhibition of mild steel by chemically modified lignin polymers from Elaeis guineensis agricultural waste. 2015 , 163, 201-212		35
275	Abundance and characteristics of lignin liquid intermediates in wood (Pinus ponderosa Dougl. ex Laws.) during hot water extraction. 2015 , 81, 117-128		15
274	Antioxidant and anticorrosive properties of oil palm frond lignins extracted with different techniques. 2015 , 72, 17-26		23
273	Chemicals From Renewable Sources. 2016 ,		2
272	Microwave-Assisted EValerolactone Production for Biomass Lignin Extraction: A Cascade Protocol. <i>Molecules</i> , 2016 , 21, 413	4.8	22
271	Carbon Microparticles from Organosolv Lignin as Filler for Conducting Poly(Lactic Acid). <i>Polymers</i> , 2016 , 8,	4.5	7
270	Organosolv Lignin-Based Wood Adhesive. Influence of the Lignin Extraction Conditions on the Adhesive Performance. <i>Polymers</i> , 2016 , 8,	4.5	22
269	Thermal conversion of lignin to phenols: Relevance between chemical structure and pyrolysis behaviors. 2016 , 182, 864-870		168
268	Lignin Degradation in the Production of Bioethanol 🖪 Review. 2016 , 3, 86-96		16
267	Characterization of biomass char formation investigated by advanced solid state NMR. 2016, 108, 165-	177	42
266	Interactions among biomass components during co-pyrolysis in (macro)thermogravimetric analyzers. 2016 , 33, 2638-2643		21
265	Influence of anti-solvents on lignin fractionation of eucalyptus globulus via green solvent system pretreatment. 2016 , 163, 258-266		20
264	Pretreatment and conversion of lignocellulose biomass into valuable chemicals. 2016 , 6, 46834-46852		147

263	Sources of Lignin. 2016, 1-11	15
262	Intensification effect of peroxide hydrogen on the complete dissolution of lignocellulose under mild conditions. 2016 , 6, 41032-41039	3
261	Adsorption of Methylene Blue on Organosolv Lignin from Rice Straw. 2016, 31, 3-11	71
260	Willow Lignin Oxidation and Depolymerization under Low Cost Ionic Liquid. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5277-5288	48
259	Chemoenzymatic Fractionation and Characterization of Pretreated Birch Outer Bark. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5289-5302	10
258	Effects of an alkali-acid purification process on the characteristics of eucalyptus lignin fractionated from a MIBK-based organosolv process. 2016 , 6, 92638-92647	13
257	Relationship between characteristics of ethanol organosolv lignin and the productivity of phenolic monomers by solvolysis. 2016 , 186, 770-778	6
256	Assessment of key features of lignin from lignocellulosic crops: Stalks and roots of corn, cotton, sugarcane, and tobacco. 2016 , 92, 136-148	21
255	Effects of organosolv fractionation time on thermal and chemical properties of lignins. 2016 , 6, 79228-79235	22
254	Comparison of two-stage acid-alkali and alkali-acid pretreatments on enzymatic saccharification ability of the sweet sorghum fiber and their physicochemical characterizations. <i>Bioresource</i> 11 <i>Technology</i> , 2016 , 221, 636-644	28
253	Lignin Valorization through Thermochemical Conversion: Comparison of Hardwood, Softwood and Herbaceous Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 6608-6617	83
252	Towards Biobased Aromatic Polymers from Lignins. 2016 , 385-436	4
251	Mechanistic insights into lignin depolymerisation in acidic ionic liquids. <i>Green Chemistry</i> , 2016 , 18, 5456-5465	75
250	Qualitative and Quantitative Analysis of Lignins from Different Sources and Isolation Methods for an Application as a Biobased Chemical Resource and Polymeric Material. 2016 , 15-44	8
249	Adsorption and mechanism of cellulase enzymes onto lignin isolated from corn stover pretreated with liquid hot water. 2016 , 9, 118	88
248	Effect of the temperature on the dissolution of corn straw in ethanol solution. 2016 , 6, 102306-102314	14
247	An overview of advances in biomass gasification. 2016 , 9, 2939-2977	602
246	A study of poplar organosolv lignin after melt rheology treatment as carbon fiber precursors. <i>Green Chemistry</i> , 2016 , 18, 5015-5024	75

245	Molecular-Level Kinetic Modeling of Biomass Gasification. 2016 , 30, 1647-1661		22
244	Delignification of miscanthus using ethylenediamine (EDA) with or without ammonia and subsequent enzymatic hydrolysis to sugars. 2016 , 6, 23		8
243	Heterogeneous catalytic oxidation for lignin valorization into valuable chemicals: what results? What limitations? What trends?. <i>Green Chemistry</i> , 2016 , 18, 1839-1854	10	233
242	Organosolv pretreatment of plant biomass for enhanced enzymatic saccharification. <i>Green Chemistry</i> , 2016 , 18, 360-381	10	222
241	Qualitative and Quantitative Analysis of Lignin Produced from Beech Wood by Different Conditions of the Organosolv Process. 2016 , 24, 85-97		38
240	Mechanical and thermal properties of organosolv lignin/sodium dodecyl sulphate binary agent-treated polypropylene/chitosan composites. 2016 , 73, 1427-1445		6
239	New insights into the structure and composition of technical lignins: a comparative characterisation study. <i>Green Chemistry</i> , 2016 , 18, 2651-2665	10	491
238	Catalytic Hydrodeoxygenation of Lignin Model Compounds. 2016 , 119-129		3
237	Lignin oxidation and depolymerisation in ionic liquids. <i>Green Chemistry</i> , 2016 , 18, 834-841	10	94
236	Reaction Pathways and Mechanisms in Thermocatalytic Biomass Conversion II. 2016 ,		1
235	Mechanisms of biomass pyrolysis studied by combining a fixed bed reactor with advanced gas analysis. 2016 , 117, 334-346		45
234	Study of the influence of reutilization ionic liquid on lignin extraction. <i>Journal of Cleaner Production</i> , 2016 , 111, 125-132	10.3	35
233	Investigation of oil palm based Kraft and auto-catalyzed organosolv lignin susceptibility as a green wood adhesives. 2017 , 74, 115-122		24
232			
	Laccase catalyzed grafting of NDH type mediators to lignin via radicalfadical coupling. 2017, 7, 3358-33	68	29
231	Laccase catalyzed grafting of NDH type mediators to lignin via radicalEadical coupling. 2017, 7, 3358-33 Characterization and determination of the S/G ratio via Py-GC/MS of agricultural and industrial residues. 2017, 97, 469-476	68	33
231	Characterization and determination of the S/G ratio via Py-GC/MS of agricultural and industrial	68 7.9	
	Characterization and determination of the S/G ratio via Py-GC/MS of agricultural and industrial residues. 2017 , 97, 469-476 Isolation and further structural characterization of lignins from the valonea of Quercus variabilis.		33

(2017-2017)

227	Replacing 100% of phenol in phenolic adhesive formulations with lignin. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45124	2.9	89
226	Biofuels and Bioenergy. 2017 , 79-139		3
225	Modeling interactions between a EO-4 type lignin model compound and 1-allyl-3-methylimidazolium chloride ionic liquid. 2017 , 107, e23022		15
224	Modification of oil palm fronds lignin by incorporation of m-cresol for improving structural and antioxidant properties. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 251-260	7.9	11
223	Comparison of Fast Pyrolysis Behavior of Cornstover Lignins Isolated by Different Methods. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 5657-5661	8.3	12
222	Lignin-enzyme interaction: Mechanism, mitigation approach, modeling, and research prospects. 2017 , 35, 466-489		131
221	An innovative way for the delignification of Phragmites australis residues by steam explosion and Evalerolactone microwave assisted extraction. 2017 , 36, 736-741		2
220	Predicting lignin depolymerization yields from quantifiable properties using fractionated biorefinery lignins. <i>Green Chemistry</i> , 2017 , 19, 5131-5143	10	51
219	A combined theoretical-experimental investigation on the mechanism of lignin pyrolysis: Role of heating rates and residence times. 2017 , 128, 208-216		28
218	Revealing the structure of bamboo lignin obtained by formic acid delignification at different pressure levels. 2017 , 108, 864-871		42
217	Characterization Methods and Techniques. 2017 , 107-140		1
216	Enhancing digestibility of Miscanthus using lignocellulolytic enzyme produced by Bacillus. <i>Bioresource Technology</i> , 2017 , 245, 1008-1015	11	20
215	Effect of organosolv pretreatment on mechanically pretreated biomass by use of concentrated ethanol as the solvent. 2017 , 22, 431-439		17
214	The influence of alkali and alkaline earth metals on char and volatile aromatics from fast pyrolysis of lignin. 2017 , 127, 385-393		43
213	CO2-looping in biomass pyrolysis or gasification. 2017 , 1, 1700-1729		69
212	Influence of the Carbonization Process on Activated Carbon Properties from Lignin and Lignin-Rich Biomasses. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8222-8233	8.3	86
211	Characterization of structural cell wall polysaccharides in cattail (Typha latifolia): Evaluation as potential biofuel feedstock. <i>Carbohydrate Polymers</i> , 2017 , 175, 679-688	10.3	18
210	Carbon Fibers from Sustainable Resources. 2017 , 1-23		

209	Preparation of environmental friendly phenol-formaldehyde wood adhesive modified with kenaf lignin. 2017 , 6, 409-418		12
208	Pretreatment optimization from rapeseed straw and lignin characterization. 2017 , 95, 643-650		20
207	Investigation of [Emim][OAc] as a mild pretreatment solvent for enhancing the sulfonation efficiency of alkali lignin. 2017 , 7, 31009-31017		4
206	Comprehensive approach on the structure, production, processing, and application of lignin. 2017 , 165-1	78	4
205	Catalytic Oxidation and Depolymerization of Lignin in Aqueous Ionic Liquid. 2017, 5,		32
204	A Review on The Bioconversion of Lignin to Microbial Lipid with Oleaginous Rhodococcus opacus. 2017 , 07,		20
203	Structural changes of bamboo-derived lignin in an integrated process of autohydrolysis and formic acid inducing rapid delignification. 2018 , 115, 194-201		34
202	Inhibitory effects of lignin on enzymatic hydrolysis: The role of lignin chemistry and molecular weight. <i>Renewable Energy</i> , 2018 , 123, 664-674	3.1	74
201	Thermal and Physiochemical Characterization of Lignin Extracted from Wheat Straw by Organosolv Process. 2018 , 26, 3109-3116		21
200	Characteristics of Lignin Extracted from Different Lignocellulosic Materials via Organosolv Fractionation. 2018 , 11, 277-290		29
199	Chemicals from lignin: an interplay of lignocellulose fractionation, depolymerisation, and upgrading. 2018 , 47, 852-908		1125
198	Production of oil palm (Elaeis guineensis) fronds lignin-derived non-toxic aldehyde for eco-friendly wood adhesive. <i>International Journal of Biological Macromolecules</i> , 2018 , 113, 1266-1272	7.9	27
197	Lignocellulosic biomass delignification using aqueous alcohol solutions with the catalysis of acidic ionic liquids: A comparison study of solvents. <i>Bioresource Technology</i> , 2018 , 249, 969-975	1	48
196	Structure elucidation and properties of different lignins isolated from acorn shell of Quercus variabilis Bl. <i>International Journal of Biological Macromolecules</i> , 2018 , 107, 1193-1202	7.9	12
195	A novel and efficient process for lignin fractionation in biomass-derived glycerol-ethanol solvent system. 2018 , 111, 201-211		49
194	Predicting molecular composition of primary product derived from fast pyrolysis of lignin with semi-detailed kinetic model. 2018 , 212, 515-522		22
193	Thermal stability, degradation kinetics, and molecular weight of organosolv lignins from Pinus radiata. 2018 , 111, 889-898		19
192	Availability of four energy crops assessing by the enzymatic hydrolysis and structural features of lignin before and after hydrothermal treatment. 2018 , 155, 58-67		61

(2018-2018)

191	Potential of a short rotation coppice poplar as a feedstock for platform chemicals and lignin-based building blocks. 2018 , 123, 698-706		8
190	Chemical Pulp Mills as Biorefineries. 2018 , 1-51		2
189	Comparative analysis of different lignins as phenol replacement in phenolic adhesive formulations. 2018 , 125, 520-528		38
188	Protic ionic liquids as effective agents for pretreatment of cotton stalks at high biomass loading. 2018 , 125, 588-595		33
187	Spectroscopic Investigation of Thermochemical Depolymerization of Lignin Model Compounds in the Presence of Novel Liquidlike Nanoparticle Organic Hybrid Solvents for Efficient Biomass Valorization. 2018 , 22, 1723-1732		9
186	Preparation of a Low Reducing Effect Sulfonated Alkali Lignin and Application as Dye Dispersant. <i>Polymers</i> , 2018 , 10,	4.5	14
185	Chemical composition and cellular structure of ponytail palm (Beaucarnea recurvata) cork. 2018 , 124, 845-855		7
184	Chemical Transformations of Poplar Lignin during Cosolvent Enhanced Lignocellulosic Fractionation Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8711-8718	8.3	65
183	Comparative study of the fast pyrolysis behavior of ginkgo, poplar, and wheat straw lignin at different temperatures. 2018 , 122, 465-472		31
182	Hybrid Catalytic Biorefining of Hardwood Biomass to Methylated Furans and Depolymerized Technical Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 10587-10594	8.3	22
181	Rapid pretreatment of Miscanthus using the low-cost ionic liquid triethylammonium hydrogen sulfate at elevated temperatures. <i>Green Chemistry</i> , 2018 , 20, 3486-3498	10	66
180	Characterization of biomass and biochar by LDI-FTICRMS - Effect of the laser wavelength and biomass material. 2018 , 29, 1951-1962		10
179	Functionalized Tyrosinase-Lignin Nanoparticles as Sustainable Catalysts for the Oxidation of Phenols. 2018 , 8,		25
178	Microparticles based on ionic and organosolv lignins for the controlled release of atrazine. 2018 , 359, 139-147		39
177	Citric Acid as Green Modifier for Tuned Hydrophilicity of Surface Modified Cellulose and Lignin Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9966-9978	8.3	50
176	Extraction of lignin, structural characterization and bioconversion of sugarcane bagasse after ionic liquid assisted pretreatment. 2018 , 8, 374		23
175	Catalytic Strategies Towards Lignin-Derived Chemicals. 2018 , 376, 36		49
174	Compositional Variability of Lignin in Biomass. 2018,		35

173	Coupling of hydrothermal and ionic liquid pretreatments for sequential biorefinery of Tamarix austromongolica. <i>Applied Energy</i> , 2018 , 229, 745-755	10.7	13
172	Characterization and Catalytic Transfer Hydrogenolysis of Deep Eutectic Solvent Extracted Sorghum Lignin to Phenolic Compounds. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 10408-104	1203	39
171	Synthesis and Characterization of Carboxyethylated Lignosulfonate. 2018 , 11, 2967-2980		22
170	Acidic Ionic Liquid as Both Solvent and Catalyst for Fast Chemical Esterification of Industrial Lignins: Performances and Regioselectivity. 2019 , 7, 578		11
169	Aqueous Ammonia Pre-treatment of Wheat Straw: Process Optimization and Broad Spectrum Dye Adsorption on Nitrogen-Containing Lignin. 2019 , 7, 545		8
168	Modification of Lignoboost Kraft Lignin from softwoods with dihydroxybenzenes. 2019 , 142, 112-118		6
167	Green Process for Extraction of Lignin by the Microwave-Assisted Ionic Liquid Approach: Toward Biomass Biorefinery and Lignin Characterization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 13062-13072	8.3	42
166	Reinforced lignin-phenol-glyoxal (LPG) wood adhesives from coconut husk. <i>International Journal of Biological Macromolecules</i> , 2019 , 141, 185-196	7.9	18
165	Performance of three delignifying pretreatments on hardwoods: hydrolysis yields, comprehensive mass balances, and lignin properties. 2019 , 12, 213		17
164	Hydrothermal Decomposition of a Lignin Dimer under Neutral and Basic Conditions: A Mechanism Study. <i>Industrial & Decomposition Chemistry Research</i> , 2019 , 58, 18866-18880	3.9	5
163	Lignin from second-generation biorefinery for pressure-sensitive adhesive tapes. 2019 , 1		3
162	Selection and optimization of a suitable pretreatment method for miscanthus and poplar raw material. <i>GCB Bioenergy</i> , 2019 , 11, 171-180	5.6	7
161	Optimization of Lignin Extraction from Pine Wood for Fast Pyrolysis by Using a EValerolactone-Based Binary Solvent System. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4058-	4 <mark>8</mark> 88	14
160	Functionality study of lignin as a tyrosinase inhibitor: Influence of lignin heterogeneity on anti-tyrosinase activity. <i>International Journal of Biological Macromolecules</i> , 2019 , 128, 107-113	7.9	14
159	Two important factors of selecting lignin as efficient lubricating additives in poly (ethylene glycol): Hydrogen bond and molecular weight. <i>International Journal of Biological Macromolecules</i> , 2019 , 129, 564-570	7.9	19
158	Lignin-Based Carbon Nanofibers as Electrodes for Vanadium Redox Couple Electrochemistry. 2019 , 9,		18
157	Defining lignin nanoparticle properties through tailored lignin reactivity by sequential organosolv fragmentation approach (SOFA). <i>Green Chemistry</i> , 2019 , 21, 245-260	10	54
156	Bio-sourced Lignin: Recovery Techniques and Principles. 2019 , 65-150		

Biosourced Lignin: Sources and Properties. 2019, 151-191 155 0 Characterization Techniques and Quality Assessment of Lignin and Lignin Carbon Materials. 2019, 193-279 154 Sequential Production of Lignin, Fatty Acid Methyl Esters and Biogas from Spent Coffee Grounds 153 3.1 14 via an Integrated Physicochemical and Biological Process. Energies, 2019, 12, 2360 Application of novel and technical lignins in food and pharmaceutical industries: structure-function 152 19 relationship and current challenges. 2019, 1 Low-Input Crops as Lignocellulosic Feedstock for Second-Generation Biorefineries and the 16 151 Potential of Chemometrics in Biomass Quality Control. 2019, 9, 2252 Carbon dioxide anion radical as a tool to enhance lignin valorization. 2019, 682, 47-58 150 7 Homolytic and Heterolytic Cleavage of Ether Linkages in Hardwood Lignin by Steam Explosion. 149 12 5.7 Journal of Agricultural and Food Chemistry, 2019, 67, 5989-5996 148 Modular Engineering of Biomass Degradation Pathways. **2019**, 7, 230 6 Characterization of cell wall polymers. GCB Bioenergy, 2019, 11, 191-205 5.6 21 147 The structural characterization and antioxidant properties of oil palm fronds lignin incorporated 146 7.9 15 with p-hydroxyacetophenone. International Journal of Biological Macromolecules, 2019, 130, 947-957 Non-catalytic green solvent lignin isolation process from wheat straw and the structural analysis. 145 8.1 7 Renewable Energy, **2019**, 140, 292-303 x Stem Versus Leaf-Derived Lignins Differing in Monolignol Ratio and Linkage. 2019, 20, 144 19 Investigation on the production of formic and acetic acids from liqnin by ethanol organosolv 143 7.9 treatment at mild conditions. International Journal of Biological Macromolecules, 2019, 131, 329-335 Genetic diversity and population structure of Miscanthus lutarioriparius, an endemic plant of China. 142 15 2019, 14, e0211471 Kinetic analysis of delignification of cedar wood during organosolv treatment with a two-phase 141 14.7 17 solvent using the unreacted-core model. Chemical Engineering Journal, 2019, 368, 71-78 Structural characterization of the bagasse lignin pretreated using solid alkali. 2019, 34, 558-566 140 Development and characterization novel bio-adhesive for wood using kenaf core (Hibiscus 139 36 7.9 cannabinus) lignin and glyoxal. International Journal of Biological Macromolecules, 2019, 122, 713-722 Exploring the untapped potential of solar pretreatment for deconstruction of recalcitrant Kraft 138 6 lignin in fungal biotransformation. 2019, 21, 579-590

137	Lignin - An underutilized, renewable and valuable material for food industry. 2020 , 60, 2011-2033		18
136	Selective Hydrodeoxygenation of Guaiacol to Cyclohexanol Catalyzed by Nanoporous Nickel. 2020 , 150, 837-848		6
135	Enhancing isolation of p-coumaric and ferulic acids from sugarcane bagasse by sequential hydrolysis. 2020 , 74, 499-507		10
134	Zinc chloride/acetamide deep eutectic solvent-mediated fractionation of lignin produces high- and low-molecular-weight fillers for phenol-formaldehyde resins. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48385	2.9	10
133	Ozone mediated depolymerization and solvolysis of technical lignins under ambient conditions in ethanol. 2020 , 4, 265-276		13
132	A Review on Lignin Liquefaction: Advanced Characterization of Structure and Microkinetic Modeling. <i>Industrial & Description of Structure and Microkinetic Modeling</i> . <i>Industrial & Description of Structure and Microkinetic Modeling</i> . <i>Industrial & Description of Structure and Microkinetic Modeling</i> .	3.9	22
131	Mechanistic studies of milled and Kraft lignin oxidation by radical species. <i>Green Chemistry</i> , 2020 , 22, 1182-1197	10	15
130	Lignin-Based Hydrogels: Synthesis and Applications. <i>Polymers</i> , 2020 , 12,	4.5	55
129	Effect of extraction methods on the molecular structure and thermal stability of kenaf (Hibiscus cannabinus core) biomass as an alternative bio-filler for rubber composites. <i>International Journal of Biological Macromolecules</i> , 2020 , 154, 1255-1264	7.9	5
128	Highly selective and efficient lignin-magnesium for removing cationic dyes from wastewater. 2020 , 8, 104283		6
127	Modification of the aspen lignin structure during integrated fractionation process of autohydrolysis and formic acid delignification. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 1727-1737	7 7.9	9
126	Design of a combined ionosolv-organosolv biomass fractionation process for biofuel production and high value-added lignin valorisation. <i>Green Chemistry</i> , 2020 , 22, 5161-5178	10	25
125	Emerging Strategies for Modifying Lignin Chemistry to Enhance Biological Lignin Valorization. 2020 , 13, 5423-5432		14
124	Characterization of composite material from the copolymerized polyphenolic matrix with treated cassava peels starch. 2020 , 6, e04574		2
123	Comparison of nonproductive adsorption of cellulase onto lignin isolated from pretreated lignocellulose. <i>Cellulose</i> , 2020 , 27, 7911-7927	5.5	6
122	Chemical and thermochemical methods on lignocellulosic biorefinery. 2020 , 101-132		2
121	Insight into Depolymerization Mechanism of Bacterial Laccase for Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 12920-12933	8.3	20
120	Catalytic Conversion of Lignocellulosic Biomass:Application of Heterogeneous and Homogeneous Catalysts to Process Biomass into Value-Added Compounds. 2020 , 151-182		2

1	19	Unlocking Structure-Reactivity Relationships for Catalytic Hydrogenolysis of Lignin into Phenolic Monomers. 2020 , 13, 4548-4556	16	
1	18	Lignin-Based Micro- and Nanomaterials and their Composites in Biomedical Applications. 2020 , 13, 4266-4283	52	
1	17	Controlled hydrogenolysis over heterogeneous catalysts for lignin valorization. 2020 , 62, 607-630	7	
1	16	Extraction of High-Purity Lignins via Catalyst-free Organosolv Pulping from Low-Input Crops. 2020 , 21, 1929-1942	17	
1	15	Recent advances in organosolv fractionation: Towards biomass fractionation technology of the future. <i>Bioresource Technology</i> , 2020 , 306, 123189	44	
1	14	Lignin Chemistry. 2020 ,	3	
1	.13	High yield solvent extraction of hydrothermal and ball-milling treated lignin prior to enzymatic hydrolysis for co-valorization of lignin and cellulose in Miscanthus sacchariflorus. 2020 , 269, 117428	9	
1	12	Two-step conversion of Kraft lignin to nylon precursors under mild conditions. <i>Green Chemistry</i> , 2020 , 22, 4676-4682	17	
1	11	Lignin-fueled photoelectrochemical platform for light-driven redox biotransformation. <i>Green Chemistry</i> , 2020 , 22, 5151-5160	7	
1	10	Technical lignin and its potential modification routes: A mini-review. 2020 , 154, 112732	41	
1	.09	Current advancement on the isolation, characterization and application of lignin. <i>International Journal of Biological Macromolecules</i> , 2020 , 162, 985-1024	89	
1	.08	Photoresponsive wood composite for photoluminescence and ultraviolet absorption. 2020 , 261, 119984	7	
1	.07	Unlocking the response of lignin structure by depolymerization process improved lignin-based carbon nanofibers preparation and mechanical strength. <i>International Journal of Biological</i> 7.9 <i>Macromolecules</i> , 2020 , 156, 669-680	13	
1	206	Oxidative conversion of lignin isolated from wheat straw into aromatic compound catalyzed by NaOH/NaAlO. 2020 , 8, 3504-3514	3	
1	.05	Catalytic hydrotreatment of pyrolytic lignins from different sources to biobased chemicals: Identification of feed-product relations. 2020 , 134, 105484	14	
1	04	Hydroxypropyl-modified and organosolv lignin/bio-based polyamide blend filaments as carbon fibre precursors[12020, 55, 7066-7083	6	
1	:03	Adsorption Behavior of Pb(II), Cd(II), and Zn(II) onto Agave Bagasse, Characterization, and Mechanism. <i>ACS Omega</i> , 2020 , 5, 3302-3314	17	
1	02	High Purity and Low Molecular Weight Lignin Nano-Particles Extracted from Acid-Assisted MIBK Pretreatment. <i>Polymers</i> , 2020 , 12,	9	

101	Structural characterization and comparison of enzymatic and deep eutectic solvents isolated lignin from various green processes: Toward lignin valorization. <i>Bioresource Technology</i> , 2020 , 310, 123460	11	27
100	Comparing chemical composition and lignin structure of and harvested in autumn and spring and separated into stems and leaves 2020 , 10, 10740-10751		13
99	Delignification of Pinecone and Extraction of Formic Acid in the Hydrolysate Produced by Alkaline Fractionation. 2020 , 192, 103-119		2
98	Lignin as a potential source of high-added value compounds: A review. <i>Journal of Cleaner Production</i> , 2020 , 263, 121499	10.3	62
97	Influence of lignocellulosic substrate and phosphorus flame retardant type on grafting yield and flame retardancy. 2020 , 153, 104612		6
96	Advanced Applications for Lignin Micro- and Nano-based Materials. 2020 , 6, 159-171		6
95	Synthesis of lignin-functionalized phenolic nanosphere supported Ag nanoparticles with excellent dispersion stability and catalytic performance. <i>Green Chemistry</i> , 2020 , 22, 2879-2888	10	30
94	Synergistic Improvement of Carbohydrate and Lignin Processability by Biomimicking Biomass Processing. 2021 , 8,		1
93	Lignin from oil palm empty fruit bunches: Characterization, biological activities and application in green synthesis of silver nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2021 , 167, 1499-1507	7.9	5
92	A review on management of rice straw by use of cleaner technologies: Abundant opportunities and expectations for Indian farming. <i>Journal of Cleaner Production</i> , 2021 , 291, 125278	10.3	11
91	Uniqueness of biphasic organosolv treatment of soft- and hardwood using water/1-butanol co-solvent. 2021 , 159, 113078		5
90	Hornbeam pretreatment with protic ionic liquids: Cation, particle size, biomass loading and recycling effects. 2021 , 159, 113021		9
89	Lignin chemistry and valorization. 2021 , 145-183		0
88	Lignin extraction and isolation methods. 2021 , 61-104		1
87	Lignin-based materials for drug and gene delivery. 2021 , 327-370		0
86	Breeding Targets to Improve Biomass Quality in Miscanthus. <i>Molecules</i> , 2021 , 26,	4.8	4
85	Role of peracetic acid on the disruption of lignin packing structure and its consequence on lignin depolymerisation. <i>Green Chemistry</i> ,	10	1
84	Types of lignin, properties, and structural characterization techniques. 2021 , 105-158		O

(2021-2021)

83	Revisiting lignin: a tour through its structural features, characterization methods and applications. <i>New Journal of Chemistry</i> , 2021 , 45, 6986-7013	3.6	23
82	Lignins Isolated via Catalyst-Free Organosolv Pulping from , , and : A Comparative Study. <i>Molecules</i> , 2021 , 26,	4.8	2
81	A biorefinery approach to obtain antioxidants, lignin and sugars from exhausted olive pomace. Journal of Industrial and Engineering Chemistry, 2021 , 96, 356-363	6.3	8
80	Comparison of Corn Stover Pretreatments with Lewis Acid Catalyzed Choline Chloride, Glycerol and Choline Chloride-Glycerol Deep Eutectic Solvent. <i>Polymers</i> , 2021 , 13,	4.5	2
79	Lignin-based polymers. ChemistrySelect, 2021 ,	1.8	
78	Transforming biorefinery designs with 'Plug-In Processes of Lignin' to enable economic waste valorization. <i>Nature Communications</i> , 2021 , 12, 3912	17.4	23
77	Maleic acid hydrotropic fractionation of wheat straw to facilitate value-added multi-product biorefinery at atmospheric pressure. <i>GCB Bioenergy</i> , 2021 , 13, 1407-1424	5.6	3
76	Enhancement of the antioxidant abilities of lignin and lignin-carbohydrate complex from wheat straw by moderate depolymerization via LiCl/DMSO solvent catalysis. <i>International Journal of Biological Macromolecules</i> , 2021 , 184, 369-379	7.9	6
75	Extraction and applications of lignin from bamboo: a critical review. <i>European Journal of Wood and Wood Products</i> , 1	2.1	2
74	Pretreatment of corn stover by acidic and basic choline chloride solutions for enzymatic hydrolysis. <i>Cellulose</i> , 2021 , 28, 10127	5.5	О
73	Valorization of Miscanthus Igiganteus by EValerolactone/HO/FeCl system toward efficient conversion of cellulose and hemicelluloses. <i>Carbohydrate Polymers</i> , 2021 , 270, 118388	10.3	2
72	Economical concerns of lignin in the energy sector. Cleaner Engineering and Technology, 2021, 4, 100258	32.7	5
71	Lewis acid-mediated aqueous glycerol pretreatment of sugarcane bagasse: Pretreatment recycling, one-pot hydrolysis and lignin properties. <i>Renewable Energy</i> , 2021 , 178, 1456-1465	8.1	1
70	Revealing the influence of metallic chlorides pretreatment on chemical structures of lignin and enzymatic hydrolysis of waste wheat straw. <i>Bioresource Technology</i> , 2021 , 342, 125983	11	1
69	High-solid ethylenediamine pretreatment to fractionate new lignin streams from lignocellulosic biomass. <i>Chemical Engineering Journal</i> , 2022 , 427, 130962	14.7	8
68	Nanolignin in materials science and technology[does flame retardancy matter?. 2021 , 515-559		1
67	Disassembling catechyl and guaiacyl/syringyl lignins coexisting in Euphorbiaceae seed coats. <i>Green Chemistry</i> , 2021 , 23, 7235-7242	10	5
66	Bioconversion of Food Waste into Biogas. Advances in Science, Technology and Innovation, 2021, 81-94	0.3	

65 Fractionation, Characterization, and Valorization of Lignin Derived from Engineered Plants. **2021**, 245-288

64	Ionic Liquids Based Processing of Renewable and Sustainable Biopolymers. 2020 , 181-207		6
63	Lignocellulosic Biomass for Energy, Biofuels, Biomaterials, and Chemicals. 2018 , 95-132		6
62	Novel Mesoporous Lignin-Calcium for Efficiently Scavenging Cationic Dyes from Dyestuff Effluent. <i>ACS Omega</i> , 2021 , 6, 816-826	3.9	5
61	Lignin-based resins for kraft paper applications. <i>Tappi Journal</i> , 2019 , 18, 666-675	0.5	2
60	Effect of the Pre-Treatment Severity on the Antioxidant Properties of Ethanol Organosolv Miscanthus x giganteus Lignin. <i>Natural Resources</i> , 2012 , 03, 29-34	0.2	13
59	Biomass to Bioethanol: Initiatives of the Future for Lignin. ISRN Materials Science, 2011 , 2011, 1-10		30
58	Influence of Newly Organosolv Lignin-Based Interface Modifier on Mechanical and Thermal Properties, and Enzymatic Degradation of Polylactic Acid/Chitosan Biocomposites. <i>Polymers</i> , 2021 , 13,	4.5	O
57	Extraction de la lignine deMiscanthus x Giganteuspour la production dadhaifs pour le matliau bois. <i>Materiaux Et Techniques</i> , 2011 , 99, 463-469	0.6	1
56	Chemical Structural characterization of lignin extracted from Pitch Pine with Ionic Liquid (1-ethyl-3-methylimidazolium acetate) Pine with Ionic Liquid (1-ethyl-3-methylimidazolium acetate). Journal of the Korean Wood Science and Technology, 2012, 40, 194-203	2	4
55	Encyclopedia of Ionic Liquids. 2019 , 1-22		
54	Facile fractionation of bamboo hydrolysate and characterization of isolated lignin and lignin-carbohydrate complexes. <i>Holzforschung</i> , 2021 , 75, 399-408	2	1
53	A review on thermochemical biomass gasification techniques for bioenergy production. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 1-34	1.6	O
52	Developing highly transparent yet ultraviolet blocking fully biocomposite films based on chitin and lignin using ethanol/water as processing solvents <i>International Journal of Biological Macromolecules</i> , 2022 , 201, 308-317	7.9	О
51	Structural changes for lignin from Chinese quince during the sequential fractionation of cell wall polysaccharides. <i>Process Biochemistry</i> , 2022 , 113, 167-176	4.8	1
50	Evaluation of Cell Wall Chemistry of Della and Its Mutant Sweet Sorghum Stalks <i>Journal of Agricultural and Food Chemistry</i> , 2022 ,	5.7	О
49	Comparative Evaluation of Adsorption of Major Enzymes in a Cellulase Cocktail Obtained from onto Different Types of Lignin <i>Polymers</i> , 2022 , 14,	4.5	О
48	Evaluation of biomass-derived solvents and protic ionic liquids as lignin-selective pretreatment agents for poplar fractionation. <i>Journal of Wood Chemistry and Technology</i> , 1-13	2	1

47	Ionic liquids and lignin interaction: An overview. Bioresource Technology Reports, 2022, 17, 100958	4.1	2
46	Green mechano-chemical processing of lignocellulosic biomass for lignin recovery <i>Chemosphere</i> , 2022 , 133647	8.4	2
45	Hydrothermal Liquefaction (HTL) of Kraft Lignin (KL) Recovered from Lignocellulosic Biomass: State of the Art. <i>Clean Energy Production Technologies</i> , 2022 , 267-292	0.8	
44	Noncatalytic Hydropyrolysis of Lignin in a Micro-Pyrolyzer. SSRN Electronic Journal,	1	
43	Synthesis and Antibacterial Properties of Oligomeric Dehydrogenation Polymer from Lignin Precursors <i>Molecules</i> , 2022 , 27,	4.8	2
42	Study of Lignin Extracted from Rubberwood Using Microwave Assisted Technology for Fuel Additive <i>Polymers</i> , 2022 , 14,	4.5	O
41	Investigating the Effect of Calcium Lignosulfonate on the Durability and Performance of Asphalt Mixtures. <i>Advances in Materials Science and Engineering</i> , 2022 , 2022, 1-14	1.5	О
40	Process Optimization for Acid Hydrolysis and Characterization of Bioethanol from Leftover Injera Waste by Using Response Surface Methodology: Central Composite Design <i>International Journal of Analytical Chemistry</i> , 2022 , 2022, 4809589	1.4	1
39	The Fractionation of Corn Stalk Components by Hydrothermal Treatment Followed by Ultrasonic Ethanol Extraction. <i>Energies</i> , 2022 , 15, 2616	3.1	2
38	Deciphering the linkage type and structural characteristics of the p-hydroxyphenyl unit in Pinus massoniana Lamb compressed wood lignin <i>International Journal of Biological Macromolecules</i> , 2022 , 208, 772-781	7.9	O
37	Organosolv Lignin from European Tree Bark: Influence of Bark Pretreatment <i>Materials</i> , 2021 , 14,	3.5	1
36	Novel lignin as natural-biodegradable binder for various sectors Areview. <i>Journal of Applied Polymer Science</i> , 2022 , 139, 51951	2.9	3
35	Physical and Chemical Changes in Hydrothermally Modified Wood. Forests, 2021, 12, 1771	2.8	
34	High-Performance Gel-Spun Poly(vinyl alcohol) Fibers Reinforced by Organosolv Lignin-graft-poly(acrylic acid). <i>Industrial & amp; Engineering Chemistry Research</i> ,	3.9	Ο
33	Catalytic hydropyrolysis of lignin using NiMo-doped catalysts: Catalyst evaluation and mechanism analysis. <i>Applied Energy</i> , 2022 , 316, 119115	10.7	O
32	Data_Sheet_1.docx. 2019 ,		
31	Characterization of mechanical and thermal properties of esterified lignin modified polypropylene composites filled with chitosan fibers. <i>Polymers and Polymer Composites</i> , 2022 , 30, 096739112210824	0.8	4
30	A review on alternative raw materials for sustainable production: novel plant fibers. <i>Cellulose</i> ,	5.5	1

29	Noncatalytic hydropyrolysis of lignin in a high pressure micro-pyrolyzer. <i>Fuel Processing Technology</i> , 2022 , 233, 107289	,	0
28	Technical lignin to hydrogels: An Eclectic review on suitability, synthesis, applications, challenges and future prospects. <i>Journal of Cleaner Production</i> , 2022 , 363, 132585	3	1
27	Chemical and Morphological Structure of Transgenic Switchgrass Organosolv Lignin Extracted by Ethanol, Tetrahydrofuran, and EValerolactone Pretreatments. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 9041-9052		О
26	The influence of the Miscanthus giganteus pyrolysis temperature on the application of obtained biochars as solid biofuels and precursors of high surface area activated carbons. 2022 , 164, 106550		1
25	Influence of flue gas torrefaction on the fuel properties and pyrolysis characteristics of real components of corn stalk. 2022 , 715, 179301		1
24	Comparison of lignin distribution, structure, and morphology in wheat straw and wood. 2022 , 187, 115432		2
23	Insights on the physico-chemical properties of alkali lignins from different agro-industrial residues and their use in phenol-formaldehyde wood adhesive formulation. 2022 , 221, 149-162	,	0
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21	Lignin-based benzoxazines: A tunable key-precursor for the design of hydrophobic coatings, fire resistant materials and catalyst-free vitrimers. 2023 , 453, 139895		4
20	Pretreatment of Lignocellulosic Biomass and 2G Ethanol. 2022 , 322-339		О
19	Revealing the effects of the ball milling pretreatment on the ethanosolv fractionation of lignin from walnut and pistachio shells. 1-10		0
18	An integral method for determining the molecular composition of lignin and its application. 2022 , 12,		O
17	Surface functional groups and degree of carbonization of selected chars from different processes and feedstock. 2022 , 17, e0277365		0
16	Lignin-based carbon fibers: Insight into structural evolution from lignin pretreatment, fiber forming, to pre-oxidation and carbonization. 2023 , 226, 646-659		O
15	Rust conversion of archeological cannonball from Fort Cornwallis using oil palm frond lignin. 2023 , 192, 116107	,	0
14	High value valorization of lignin as environmental benign antimicrobial. 2023 , 18, 100520		2
13	Valorization of Lignocellulose by Producing Polyhydroxyalkanoates under Circular Bioeconomy Premises: Facts and Challenges. 2022 , 10, 16459-16475		0
12	Bamboo as a Cost-Effective Source of Renewable Carbon for Sustainable Economic Development in Low- and Middle-Income Economies. 2023 , 16, 331		O

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11	Flow-through reductive catalytic fractionation of beech wood sawdust.	О
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9	Covalently bound humin-lignin hybrids as important novel substructures in organosolv spruce lignins. 2023 , 233, 123471	O
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