Martin Lawoko

List of Publications by Year
in descending order

58 papers	3,619 citations	159358 30 h-index	143772 57 g-index
59 all docs	59 docs citations	59 times ranked	3471 citing authors

#	Article	IF	Citations
1	Structural basis for lignin recalcitrance during sulfite pulping for production of dissolving pulp from pine heartwood. Industrial Crops and Products, 2022, 177, 114391.	2.5	7
2	Protected lignin biorefining through cyclic extraction: gaining fundamental insights into the tuneable properties of lignin by chemometrics. Green Chemistry, 2022, 24, 1211-1223.	4.6	14
3	Fundamental Insights on the Physical and Chemical Properties of Organosolv Lignin from Norway Spruce Bark. Biomacromolecules, 2022, 23, 3349-3358.	2.6	7
4	Deciphering lignin heterogeneity in ball milled softwood: unravelling the synergy between the supramolecular cell wall structure and molecular events. Green Chemistry, 2021, 23, 3348-3364.	4.6	26
5	Recent Strategies for Lignin-Based Thermosets. ACS Symposium Series, 2021, , 175-206.	0.5	3
6	Exploring the Effects of Different Cross-Linkers on Lignin-Based Thermoset Properties and Morphologies. ACS Sustainable Chemistry and Engineering, 2021, 9, 1692-1702.	3.2	43
7	Self-assembled carbon spheres prepared from abundant lignin and urea for photocatalytic and self-propelling applications. Carbon Trends, 2021, 3, 100040.	1.4	3
8	Lignin as a Renewable Substrate for Polymers: From Molecular Understanding and Isolation to Targeted Applications. ACS Sustainable Chemistry and Engineering, 2021, 9, 5481-5485.	3.2	13
9	Active role of lignin in anchoring wood-based stabilizers to the emulsion interface. Green Chemistry, 2021, 23, 9084-9098.	4.6	13
10	Stabilising mannose using sodium dithionite at alkaline conditions. Holzforschung, 2020, 74, 131-140.	0.9	1
11	Fractional Profiling of Kraft Lignin Structure: Unravelling Insights on Lignin Reaction Mechanisms. ACS Sustainable Chemistry and Engineering, 2020, 8, 1112-1120.	3.2	88
12	High Value Use of Technical Lignin. Fractionated Lignin Enables Facile Synthesis of Microcapsules with Various Shapes: Hemisphere, Bowl, Mini-tablets, or Spheres with Single Holes. ACS Sustainable Chemistry and Engineering, 2020, 8, 13282-13291.	3.2	14
13	Enrichment and Identification of Ligninâ€“Carbohydrate Complexes in Softwood Extract. ACS Sustainable Chemistry and Engineering, 2020, 8, 11795-11804.	3.2	23
14	Toward a Consolidated Lignin Biorefinery: Preserving the Lignin Structure through Additiveâ€Free Protection Strategies. ChemSusChem, 2020, 13, 4666-4677.	3.6	31
15	Acetylation and Sugar Composition Influence the (In)Solubility of Plant Î²-Mannans and Their Interaction with Cellulose Surfaces. ACS Sustainable Chemistry and Engineering, 2020, 8, 10027-10040.	3.2	25
16	Lignin-Based Epoxy Resins: Unravelling the Relationship between Structure and Material Properties. Biomacromolecules, 2020, 21, 1920-1928.	2.6	118
17	Mechanical and Morphological Properties of Lignin-Based Thermosets. ACS Applied Polymer Materials, 2020, 2, 668-676.	2.0	51
18	Lignin carbohydrate complex studies during kraft pulping for producing paper grade pulp from birch. Tappi Journal, 2020, 19, 447-460.	0.2	4

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19	Nativity of lignin carbohydrate bonds substantiated by biomimetic synthesis. Journal of Experimental Botany, 2019, 70, 5591-5601.	2.4	16
20	Transforming technical lignins to structurally defined star-copolymers under ambient conditions. Green Chemistry, 2019, 21, 2478-2486.	4.6	30
21	A critical review on the analysis of lignin carbohydrate bonds. Green Chemistry, 2019, 21, 1573-1595.	4.6	204
22	Intrinsic dissolution kinetics and topochemistry of xylan, mannan, and lignin during autoâ€hydrolysis of red maple wood meal. Canadian Journal of Chemical Engineering, 2019, 97, 649-661.	0.9	6
23	The structure of galactoglucomannan impacts the degradation under alkaline conditions. Cellulose, 2019, 26, 2155-2175.	2.4	41
24	The reactivity of lignin carbohydrate complex (LCC) during manufacture of dissolving sulfite pulp from softwood. Industrial Crops and Products, 2018, 115, 315-322.	2.5	21
25	Tunable Thermosetting Epoxies Based on Fractionated and Well-Characterized Lignins. Journal of the American Chemical Society, 2018, 140, 4054-4061.	6.6	220
26	A one-pot biomimetic synthesis of selectively functionalized lignins from monomers: a green functionalization platform. Green Chemistry, 2018, 20, 2651-2662.	4.6	15
27	Differences in extractability under subcritical water reveal interconnected hemicellulose and lignin recalcitrance in birch hardwoods. Green Chemistry, 2018, 20, 2534-2546.	4.6	75
28	Structural Insights on Recalcitrance during Hydrothermal Hemicellulose Extraction from Wood. ACS Sustainable Chemistry and Engineering, 2017, 5, 5156-5165.	3.2	73
29	Renewable Thiolâ€"Ene Thermosets Based on Refined and Selectively Allylated Industrial Lignin. ACS Sustainable Chemistry and Engineering, 2017, 5, 10918-10925.	3.2	61
30	Ligninâ€Retaining Transparent Wood. ChemSusChem, 2017, 10, 3445-3451.	3.6	192
31	In muro deacetylation of xylan affects lignin properties and improves saccharification of aspen wood. Biotechnology for Biofuels, 2017, 10, 98.	6.2	64
32	On the effect of hemicellulose removal on celluloselignin interactions. Nordic Pulp and Paper Research Journal, 2017, 32, 542-549.	0.3	7
33	On the effect of hemicellulose removal on cellulose-lignin interactions. - OPEN ACCESS. Nordic Pulp and Paper Research Journal, 2017, 32, 542-549.	0.3	3
34	Structural features of mildly fractionated lignin carbohydrate complexes (LCC) from spruce. RSC Advances, 2016, 6, 42120-42131.	1.7	74
35	Allylation of a lignin model phenol: a highly selective reaction under benign conditions towards a new thermoset resin platform. RSC Advances, 2016, 6, 96281-96288.	1.7	32
36	<i>Phoma herbarum</i>, a soil fungus able to grow on natural lignin and synthetic lignin (DHP) as sole carbon source and cause lignin degradation. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 1175-1182.	1.4	17

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37	A molecular dynamics study of the effect of glycosidic linkage type in the hemicellulose backbone on the molecular chain flexibility. Plant Journal, 2016, 88, 56-70.	2.8	58
38	A glucuronoyl esterase from <i>Acremonium alcalophilum</i> cleaves native ligninâ€carbohydrate ester bonds. FEBS Letters, 2016, 590, 2611-2618.	1.3	57
39	Structural Basis for the Formation and Regulation of Ligninâ€“Xylan Bonds in Birch. ACS Sustainable Chemistry and Engineering, 2016, 4, 5319-5326.	3.2	60
40	Application of mild autohydrolysis to facilitate the dissolution of wood chips in direct-dissolution solvents. Green Chemistry, 2016, 18, 3286-3294.	4.6	26
41	Solvent screening for the fractionation of industrial kraft lignin. Holzforschung, 2016, 70, 11-20.	0.9	161
42	On the formation of lignin polysaccharide networks in Norway spruce. Phytochemistry, 2015, 111, 177-184.	1.4	44
43	Reversible crosslinking of lignin via the furanâ€“maleimide Dielsâ€“Alder reaction. Green Chemistry, 2015, 17, 4991-5000.	4.6	71
44	Modification of Kraft Lignin to Expose Diazobenzene Groups: Toward pH- and Light-Responsive Biobased Polymers. Biomacromolecules, 2015, 16, 2979-2989.	2.6	35
45	A review on lignin-based polymeric, micro- and nano-structured materials. Reactive and Functional Polymers, 2014, 85, 78-96.	2.0	578
46	On the solubility of wood in non-derivatising ionic liquids. Green Chemistry, 2013, 15, 2374.	4.6	35
47	Unveiling the structure and ultrastructure of lignin carbohydrate complexes in softwoods. International Journal of Biological Macromolecules, 2013, 62, 705-713.	3.6	37
48	Fractionation of Technical Lignin: Molecular Mass and pH Effects. BioResources, 2013, 8, .	0.5	87
49	SEPARATION OF GALACTOGLUCOMANNANS, LIGNIN, AND LIGNIN-CARBOHYDRATE COMPLEXES FROM HOT-WATER-EXTRACTED NORWAY SPRUCE BY CROSS-FLOW FILTRATION AND ADSORPTION CHROMATOGRAPHY. BioResources, 2012, 7, .	0.5	26
50	Fractionation and Characterization of Completely Dissolved Ball Milled Hardwood. Journal of Wood Chemistry and Technology, 2011, 31, 183-203.	0.9	11
51	Kinetics and mechanism of autohydrolysis of hardwoods. Bioresource Technology, 2010, 101, 7812-7819.	4.8	103
52	Lignin-carbohydrate network in wood and pulps: A determinant for reactivity. Holzforschung, 2007, 61, 668-674.	0.9	43
53	Characterisation of lignin-carbohydrate complexes (LCCs) of spruce wood (Picea abies L.) isolated with two methods. Holzforschung, 2006, 60, 156-161.	0.9	133
54	Characterization of lignin-carbohydrate complexes from spruce sulfite pulp. Holzforschung, 2006, 60, 162-165.	0.9	51

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55	Structural Differences between the Ligninâˆ’Carbohydrate Complexes Present in Wood and in Chemical Pulps. Biomacromolecules, 2005, 6, 3467-3473.	2.6	264
56	Changes in the lignin-carbohydrate complex in softwood kraft pulp during kraft and oxygen delignification. Holzforschung, 2004, 58, 603-610.	0.9	74
57	Structural changes in residual kraft pulp lignins. Effects of kappa number and degree of oxygen delignification. Nordic Pulp and Paper Research Journal, 2003, 18, 395-399.	0.3	9
58	New Structures in <i>Eucalyptus</i> Kraft Lignin with Complex Mechanistic Implications. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	19