Dimitris S Argyropoulos

List of Publications by Year
in descending order

171 papers	11,040 citations	31976 53 h-index	32842 100 g-index
179 all docs	179 docs citations	179 times ranked	9007 citing authors

#	Article	IF	Citations
1	Dissolution of Wood in Ionic Liquids. Journal of Agricultural and Food Chemistry, 2007, 55, 9142-9148.	5.2	850
2	2-Chloro-4,4,5,5-tetramethyl-1,3,2-dioxaphospholane, a Reagent for the Accurate Determination of the Uncondensed and Condensed Phenolic Moieties in Lignins. Journal of Agricultural and Food Chemistry, 1995, 43, 1538-1544.	5.2	714
3	Thermal properties of lignin in copolymers, blends, and composites: a review. Green Chemistry, 2015, 17, 4862-4887.	9.0	391
4	On the structure of softwood kraft lignin. Green Chemistry, 2017, 19, 4104-4121.	9.0	368
5	Determination of hydroxyl groups in biorefinery resources via quantitative 31P NMR spectroscopy. Nature Protocols, 2019, 14, 2627-2647.	12.0	272
6	Spectral Characterization of Eucalyptus Wood. Applied Spectroscopy, 2007, 61, 1168-1177.	2.2	249
7	Quantitative Phosphorus-31 NMR Analysis of Lignins, a New Tool for the Lignin Chemist. Journal of Wood Chemistry and Technology, 1994, 14, 45-63.	1.7	232
8	Review of Cellulose Non-Derivatizing Solvent Interactions with Emphasis on Activity in Inorganic Molten Salt Hydrates. ACS Sustainable Chemistry and Engineering, 2013, 1, 858-870.	6.7	231
9	Structural Analysis of Wheat Straw Lignin by Quantitative31P and 2D NMR Spectroscopy. The Occurrence of Ester Bonds and Î±-O-4 Substructures. Journal of Agricultural and Food Chemistry, 1997, 45, 1212-1219.	5.2	224
10	Photobactericidal Porphyrin-Cellulose Nanocrystals: Synthesis, Characterization, and Antimicrobial Properties. Biomacromolecules, 2011, 12, 3528-3539.	5.4	210
11	Toward a Better Understanding of the Lignin Isolation Process from Wood. Journal of Agricultural and Food Chemistry, 2006, 54, 5939-5947.	5.2	208
12	Production of cellulose nanocrystals using hydrobromic acid and click reactions on their surface. Journal of Materials Science, 2011, 46, 7344-7355.	3.7	206
13	Comparative Evaluation of Three Lignin Isolation Protocols for Various Wood Species. Journal of Agricultural and Food Chemistry, 2006, 54, 9696-9705.	5.2	205
14	Vibrational spectroscopy and X-ray diffraction methods to establish the differences between hardwood and softwood. Carbohydrate Polymers, 2009, 77, 851-857.	10.2	184
15	Thorough Chemical Modification of Wood-Based Lignocellulosic Materials in Ionic Liquids. Biomacromolecules, 2007, 8, 3740-3748.	5.4	183
16	Biodiesel synthesis via homogeneous Lewis acid-catalyzed transesterification. Fuel, 2009, 88, 560-565.	6.4	182
17	Regular Linking of Cellulose Nanocrystals via Click Chemistry: Synthesis and Formation of Cellulose Nanoplatelet Gels. Biomacromolecules, 2010, 11, 1060-1066.	5.4	179
18	Toward Thermoplastic Lignin Polymers. Part 1. Selective Masking of Phenolic Hydroxyl Groups in Kraft Lignins via Methylation and Oxypropylation Chemistries. Industrial & Engineering Chemistry Research, 2012, 51, 16713-16720.	3.7	171

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19	Fractional Precipitation of Softwood Kraft Lignin: Isolation of Narrow Fractions Common to a Variety of Lignins. ACS Sustainable Chemistry and Engineering, 2014, 2, 959-968.	6.7	167
20	Factors Affecting Wood Dissolution and Regeneration of Ionic Liquids. Industrial & Engineering Chemistry Research, 2010, 49, 2477-2484.	3.7	155
21	Correlations of the Antioxidant Properties of Softwood Kraft Lignin Fractions with the Thermal Stability of Its Blends with Polyethylene. ACS Sustainable Chemistry and Engineering, 2015, 3, 349-356.	6.7	141
22	31P NMR in wood chemistry: A review of recent progress. Research on Chemical Intermediates, 1995, 21, 373-395.	2.7	135
23	The early oxidative biodegradation steps of residual kraft lignin models with laccase. Bioorganic and Medicinal Chemistry, 1998, 6, 2161-2169.	3.0	127
24	Immobilized methyltrioxo rhenium (MTO)/H2O2 systems for the oxidation of lignin and lignin model compounds. Bioorganic and Medicinal Chemistry, 2006, 14, 5292-5302.	3.0	127
25	Determination of Hydroxyl Groups in Lignins Evaluation of ¹H-, ¹³C-, ³¹P-NMR, FTIR and Wet Chemical Methods. Holzforschung, 1994, 48, 387-394.	1.9	122
26	The effect of isolation method on the chemical structure of residual lignin. Wood Science and Technology, 2003, 37, 91-102.	3.2	116
27	Accurate and Reproducible Determination of Lignin Molar Mass by Acetobromination. Journal of Agricultural and Food Chemistry, 2012, 60, 8968-8973.	5.2	115
28	Quantitative13C NMR Analysis of Lignins with Internal Standards. Journal of Agricultural and Food Chemistry, 2001, 49, 3573-3578.	5.2	106
29	Toward Thermoplastic Lignin Polymers; Part II: Thermal & Polymer Characteristics of Kraft Lignin & Derivatives. BioResources, 2012, 8, .	1.0	104
30	Porphyrinâ€Cellulose Nanocrystals: A Photobactericidal Material that Exhibits Broad Spectrum Antimicrobial Activity^{â€}. Photochemistry and Photobiology, 2012, 88, 527-536.	2.5	93
31	Dispersion of cellulose crystallites by nonionic surfactants in a hydrophobic polymer matrix. Polymer Engineering and Science, 2009, 49, 2054-2061.	3.1	91
32	Correlation analysis of31P NMR chemical shifts with substituent effects of phenols. Magnetic Resonance in Chemistry, 1995, 33, 375-382.	1.9	88
33	On the propensity of lignin to associate: A size exclusion chromatography study with lignin derivatives isolated from different plant species. Phytochemistry, 2007, 68, 2570-2583.	2.9	88
34	Propensity of Lignin to Associate: Light Scattering Photometry Study with Native Lignins. Biomacromolecules, 2008, 9, 3362-3369.	5.4	88
35	Effect of Fatty Acid Esterification on the Thermal Properties of Softwood Kraft Lignin. ACS Sustainable Chemistry and Engineering, 2016, 4, 5238-5247.	6.7	87
36	Structure-property relationships for technical lignins for the production of lignin-phenol-formaldehyde resins. Industrial Crops and Products, 2017, 108, 316-326.	5.2	84

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37	Ionic Liquid Character of Zinc Chloride Hydrates Define Solvent Characteristics that Afford the Solubility of Cellulose. Journal of Physical Chemistry B, 2016, 120, 1134-1141.	2.6	82
38	On the Mechanism of the Laccaseâ€“Mediator System in the Oxidation of Lignin. Chemistry - A European Journal, 2003, 9, 5371-5378.	3.3	81
39	Synthesis, Characterization, and Antimicrobial Efficacy of Photomicrobicidal Cellulose Paper. Biomacromolecules, 2015, 16, 2482-2492.	5.4	80
40	Tosylation and acylation of cellulose in 1-allyl-3-methylimidazolium chloride. Cellulose, 2008, 15, 481-488.	4.9	76
41	Methylation of softwood kraft lignin with dimethyl carbonate. Green Chemistry, 2015, 17, 1077-1087.	9.0	76
42	Abundance and Reactivity of Dibenzodioxocins in Softwood Lignin. Journal of Agricultural and Food Chemistry, 2002, 50, 658-666.	5.2	75
43	Quantitative Phosphorus-31 NMR Analysis of Six Soluble Lignins. Journal of Wood Chemistry and Technology, 1994, 14, 65-82.	1.7	73
44	Chemicals and energy from biomass. Canadian Journal of Chemistry, 2006, 84, 960-970.	1.1	73
45	Are lignin-derived carbon fibers graphitic enough?. Green Chemistry, 2019, 21, 4253-4265.	9.0	73
46	A comparison of lignin polymer models (DHPs) and lignins by 31P NMR spectroscopy. Phytochemistry, 1996, 43, 499-507.	2.9	72
47	In Situ Determination of Lignin Phenolics and Wood Solubility in Imidazolium Chlorides Using³¹P NMR. Journal of Agricultural and Food Chemistry, 2009, 57, 8236-8243.	5.2	72
48	Determination of Arylglycerol-Î²-aryl Ethers and Other Linkages in Lignins Using DFRC/31P NMR. Journal of Agricultural and Food Chemistry, 2001, 49, 536-542.	5.2	64
49	Stable Organic Radicals in Lignin: A Review. ChemSusChem, 2017, 10, 3284-3303.	6.8	64
50	Acidolysis of Wood in Ionic Liquids. Industrial & Engineering Chemistry Research, 2010, 49, 3126-3136.	3.7	61
51	NMReDATA, a standard to report the NMR assignment and parameters of organic compounds. Magnetic Resonance in Chemistry, 2018, 56, 703-715.	1.9	61
52	Molecular Weight Distributions and Linkages in Lignocellulosic Materials Derivatized from Ionic Liquid Media. Journal of Agricultural and Food Chemistry, 2011, 59, 829-838.	5.2	57
53	Kraft Lignin Chain Extension Chemistry via Propargylation, Oxidative Coupling, and Claisen Rearrangement. Biomacromolecules, 2013, 14, 3399-3408.	5.4	56
54	A Study of Poly(hydroxyalkanoate)s by Quantitative 31P NMR Spectroscopy:â€‰ Molecular Weight and Chain Cleavage. Macromolecules, 1997, 30, 327-329.	4.8	54

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55	Extraction and characterization of lignin from corncob residue after acid-catalyzed steam explosion pretreatment. Industrial Crops and Products, 2019, 133, 241-249.	5.2	54
56	Macroscopic Behavior of Kraft Lignin Fractions: Melt Stability Considerations for Ligninâ€“Polyethylene Blends. ACS Sustainable Chemistry and Engineering, 2016, 4, 5160-5166.	6.7	53
57	A new method for rapid degree of substitution and purity determination of chloroform-soluble cellulose esters, using 31P NMR. Analytical Methods, 2010, 2, 1499.	2.7	50
58	Isolation and characterization of lignins from <i>Eucalyptus grandis</i> Hill ex Maiden and <i>Eucalyptus globulus</i> Labill. by enzymatic mild acidolysis (EMAL). Holzforschung, 2008, 62, 24-30.	1.9	49
59	A facile strategy for photoactive nanocellulose-based antimicrobial materials. Green Chemistry, 2019, 21, 3424-3435.	9.0	49
60	³¹P NMR Spectroscopy in Wood Chemistry. I. Model Compounds. Journal of Wood Chemistry and Technology, 1991, 11, 137-157.	1.7	48
61	31P NMR Spectroscopy in Wood Chemistry Part V. Qualitative Analysis of Lignin Functional Groups. Journal of Wood Chemistry and Technology, 1993, 13, 187-212.	1.7	43
62	Quantitative 31P NMR Spectroscopy of Lignins from Transgenic Poplars. Holzforschung, 2001, 55, 386-390.	1.9	43
63	Structural modifications induced during biodegradation of wheat lignin by Lentinula edodes. Bioorganic and Medicinal Chemistry, 1998, 6, 967-973.	3.0	42
64	Development of the partial least squares models for the interpretation of the UV resonance Raman spectra of lignin model compounds. Vibrational Spectroscopy, 2005, 37, 111-121.	2.2	42
65	Factors limiting oxygen delignification of kraft pulp. Canadian Journal of Chemistry, 2001, 79, 201-210.	1.1	41
66	Understanding the pyrolysis of CCA-treated wood. Journal of Analytical and Applied Pyrolysis, 2008, 81, 60-64.	5.5	41
67	Synthesis and Characterization of Poly(arylene ether sulfone) Kraft Lignin Heat Stable Copolymers. ACS Sustainable Chemistry and Engineering, 2014, 2, 264-271.	6.7	41
68	Fundamentals of oÃ—ygen delignification. Part II. Functional group formation/elimination in residual kraft lignin. Canadian Journal of Chemistry, 1998, 76, 1606-1615.	1.1	41
69	Photochemically Induced Solidâ€State Degradation, Condensation, and Rearrangement Reactions in Lignin Model Compounds and Milled Wood Lignin. Photochemistry and Photobiology, 1996, 64, 510-517.	2.5	40
70	Improving the physical and chemical functionality of starch-derived films with biopolymers. Journal of Applied Polymer Science, 2006, 100, 2542-2548.	2.6	40
71	Structure of the Polyphenolic Component of Suberin Isolated from Potato (Solanum tuberosum var.) Tj ETQq1 1 0.784314 rgBT /Overlo	5.2	39
72	Antihypertensive Drug Valsartan in Solution and at the AT₁ Receptor: Conformational Analysis, Dynamic NMR Spectroscopy, <i>in Silico</i> Docking, and Molecular Dynamics Simulations. Journal of Chemical Information and Modeling, 2009, 49, 726-739.	5.4	39

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73	Catalysis and Activation of Oxygen and Peroxide Delignification of Chemical Pulps: A Review. ACS Symposium Series, 2001, , 2-43.	0.5	38
74	Quantitative 31P NMR detection of oxygen-centered and carbon-centered radical species. Bioorganic and Medicinal Chemistry, 2006, 14, 4017-4028.	3.0	38
75	Hydrophobic Interactions Determining Functionalized Lignocellulose Solubility in Dialkylimidazolium Chlorides, as Probed by ³¹P NMR. Biomacromolecules, 2009, 10, 458-463.	5.4	38
76	19F Nuclear Magnetic Resonance Spectroscopy for the Quantitative Detection and Classification of Carbonyl Groups in Lignins. Journal of Agricultural and Food Chemistry, 1999, 47, 190-201.	5.2	36
77	Highly compatible wood thermoplastic composites from lignocellulosic material modified in ionic liquids: Preparation and thermal properties. Journal of Applied Polymer Science, 2009, 111, 2468-2476.	2.6	36
78	Observation of quinonoid groups during the light-induced yellowing of softwood mechanical pulp. Research on Chemical Intermediates, 1995, 21, 263-274.	2.7	35
79	Lignin. Advances in Biochemical Engineering/Biotechnology, 1997, , 127-158.	1.1	34
80	The effect of metal ions on the reaction of hydrogen peroxide with Kraft lignin model compounds. Canadian Journal of Chemistry, 1999, 77, 667-675.	1.1	34
81	E-beam irradiation & steam explosion as biomass pretreatment, and the complex role of lignin in substrate recalcitrance. Biomass and Bioenergy, 2017, 103, 21-28.	5.7	34
82	Computer Assisted Structure Elucidation (CASE): Current and future perspectives. Magnetic Resonance in Chemistry, 2021, 59, 669-690.	1.9	34
83	31P-N.m.r. spectroscopy in wood chemistry. Phosphite derivatives of carbohydrates. Carbohydrate Research, 1991, 220, 49-61.	2.3	33
84	Ultrasound assisted polyacrylamide grafting on nano-fibrillated cellulose. Carbohydrate Polymers, 2018, 181, 1071-1077.	10.2	32
85	Factors limiting oÃ—ygen delignification of kraft pulp. Canadian Journal of Chemistry, 2001, 79, 201-210.	1.1	32
86	A Comparison of the Reactivity and Efficiency of Ozone, Chlorine Dioxide, Dimethyldioxirane and Hydrogen Peroxide with Residual Kraft Lignin. Holzforschung, 1996, 50, 175-182.	1.9	31
87	Lignins as Emulsion Stabilizers. ACS Symposium Series, 2007, , 182-199.	0.5	30
88	Fractionation of Lignocellulosic Materials with Ionic Liquids. 1. Effect of Mechanical Treatment. Industrial & Engineering Chemistry Research, 2011, 50, 12349-12357.	3.7	30
89	Monitoring Cellulase Protein Adsorption and Recovery Using SDS-PAGE. Industrial & Engineering Chemistry Research, 2010, 49, 8333-8338.	3.7	29
90	Photoresponsive Cellulose Nanocrystals. Nanomaterials and Nanotechnology, 2011, 1, 7.	3.0	29

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91	Gel degradation theory. 1. An experimental verification with a model trifunctional network. Macromolecules, 1987, 20, 2915-2922.	4.8	28
92	Determination of Cellulose Reactivity by Using Phosphitylation and Quantitative ³¹P NMR Spectroscopy. Industrial & Engineering Chemistry Research, 2008, 47, 8906-8910.	3.7	28
93	Toward Carbon Fibers from Single Component Kraft Lignin Systems: Optimization of Chain Extension Chemistry. ACS Sustainable Chemistry and Engineering, 2016, 4, 5230-5237.	6.7	28
94	On the formation of diphenylmethane structures in lignin under kraft, EMCC^{Â®}, and soda pulping conditions. Canadian Journal of Chemistry, 1998, 76, 506-512.	1.1	26
95	Determination of Arylglycerolâˆ’Î²-Aryl Ether Linkages in Enzymatic Mild Acidolysis Lignins (EMAL): Comparison of DFRC/31P NMR with ThioacidolysisâŠ¥. Journal of Natural Products, 2008, 71, 836-841.	3.0	26
96	Molecular weight-functional group relations in softwood residual kraft lignins. Holzforschung, 2005, 59, 612-619.	1.9	25
97	Microwave-Assisted Lignin Isolation Using the Enzymatic Mild Acidolysis (EMAL) Protocol. Journal of Agricultural and Food Chemistry, 2008, 56, 10115-10122.	5.2	25
98	Fractionation of Lignocellulosic Materials Using Ionic Liquids: Part 2. Effect of Particle Size on the Mechanisms of Fractionation. Industrial & Engineering Chemistry Research, 2013, 52, 3958-3966.	3.7	25
99	31P NMR Spectroscopy in Wood Chemistry. Part IV. Lignin Models: Spin Lattice Relaxation Times and Solvent Effects in31P NMR. Holzforschung, 1993, 47, 50-56.	1.9	24
100	Spectral Monitoring of the Formation and Degradation of Polysulfide Ions in Alkaline Conditions. Industrial & Engineering Chemistry Research, 2006, 45, 7388-7392.	3.7	24
101	Products and Functional Group Distributions in Pyrolysis Oil of Chromated Copper Arsenate (CCA)-Treated Wood, as Elucidated by Gas Chromatography and a Novel ³¹P NMR-Based Method. Industrial & Engineering Chemistry Research, 2007, 46, 5258-5264.	3.7	24
102	Quantitative 31P NMR analysis of solid wood offers an insight into the acetylation of its components. Carbohydrate Polymers, 2014, 113, 552-560.	10.2	23
103	Refining of Ethanol Biorefinery Residues to Isolate Value Added Lignins. ACS Sustainable Chemistry and Engineering, 2015, 3, 1632-1641.	6.7	23
104	A Perspective on Lignin Refining, Functionalization, and Utilization. ACS Sustainable Chemistry and Engineering, 2016, 4, 5089-5089.	6.7	23
105	Charge and the dry-strength performance of polyampholytes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 301, 23-32.	4.7	22
106	Understanding the pyrolysis of CCA-treated wood. Journal of Analytical and Applied Pyrolysis, 2008, 82, 140-144.	5.5	22
107	Heteronuclear NMR Spectroscopy of Lignins. , 2010, , 245-265.		22
108	Efficient One-Pot Synthesis of 5-Chloromethylfurfural (CMF) from Carbohydrates in Mild Biphasic Systems. Molecules, 2013, 18, 7675-7685.	3.8	22

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109	31P NMR Spectroscopy in Wood Chemistry. Part VI. Solid State31P NMR of Trimethyl Phosphite Derivatives of Chromophores and Carboxylic Acids Present in Mechanical Pulps; a Method for the Quantitative Determination ofortho-Quinones. Holzforschung, 1994, 48, 112-116.	1.9	21
110	Semiquantitative Determination of Quinonoid Structures in Isolated Lignins by31P Nuclear Magnetic Resonance. Journal of Agricultural and Food Chemistry, 1998, 46, 4628-4634.	5.2	21
111	Quantitative 1H NMR analysis of alkaline polysulfide solutions. Holzforschung, 2005, 59, 124-131.	1.9	21
112	Phenoxy radical detection using ³¹P NMR spin trapping. Journal of Physical Organic Chemistry, 2009, 22, 1070-1077.	1.9	21
113	19F Nuclear Magnetic Resonance Spectroscopy for the Elucidation of Carbonyl Groups in Lignins. 1. Model Compounds. Journal of Agricultural and Food Chemistry, 1996, 44, 2167-2175.	5.2	20
114	Condensation of Lignin in Dioxane-Water-HCl. Journal of Wood Chemistry and Technology, 1987, 7, 1-23.	1.7	19
115	P NMR Spectroscopy in Wood Chemistry - Part III. Solid State31P NMR of Trimethyl Phosphite Derivatives of Chromophores in Mechanical Pulp. Holzforschung, 1992, 46, 211-218.	1.9	19
116	Wood Extractives Promote Cellulase Activity on Cellulosic Substrates. Biomacromolecules, 2015, 16, 3226-3234.	5.4	19
117	Colloidal effects of acrylamide polyampholytes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 289, 89-95.	4.7	18
118	Species distribution within the soluble phase beyond the gel point. Macromolecules, 1987, 20, 357-361.	4.8	17
119	Influence of Natural Biomaterials on the Elastic Properties of Starch-Derived Films:Â An Optimization Study. Industrial & Engineering Chemistry Research, 2006, 45, 627-633.	3.7	17
120	Understanding the radical mechanism of lipoxygenases using 31P NMR spin trapping. Bioorganic and Medicinal Chemistry, 2011, 19, 3022-3028.	3.0	16
121	Measurement of Cellulase Activity with Piezoelectric Resonators. ACS Symposium Series, 2007, , 478-494.	0.5	15
122	Chemicals, Materials, and Energy from Biomass: A Review. ACS Symposium Series, 2007, , 2-30.	0.5	14
123	An Efficient and Stereoselective Dearylation of Asarinin and Sesamin Tetrahydrofurofuran Lignans to Acuminatolide by Methyltrioxorhenium/H2O2 and UHP Systems. Journal of Natural Products, 2007, 70, 39-42.	3.0	14
124	A simple method to tune the gross antibacterial activity of cellulosic biomaterials. Carbohydrate Polymers, 2007, 69, 805-810.	10.2	14
125	Synthesis and characterization of nano fibrillated cellulose/Cu2O films; micro and nano particle nucleation effects. Carbohydrate Polymers, 2018, 197, 614-622.	10.2	14
126	Copolymers of starch, a sustainable template for biomedical applications: A review. Carbohydrate Polymers, 2022, 278, 118973.	10.2	14

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127	Title is missing!. Die Makromolekulare Chemie, 1987, 188, 1985-1992.	1.1	13
128	Colloidal effects of acrylamide polyampholytes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 281, 74-81.	4.7	13
129	Detection of ketyl radicals using 31P NMR spin trapping. Journal of Physical Organic Chemistry, 2009, 23, 505-512.	1.9	13
130	Characterization of Free Radical Spin Adducts of 5-Diisopropyloxy-Phosphoryl-5-Methyl-1-Pyrroline-N-Oxide Using Mass Spectrometry and 31P Nuclear Magnetic Resonance. European Journal of Mass Spectrometry, 2010, 16, 175-185.	1.0	13
131	Coupling P-31 NMR with the Mannich reaction for the quantitative analysis of lignin. Canadian Journal of Chemistry, 1998, 76, 612-622.	1.1	13
132	Thermodynamic parameters governing the stereoselective degradation of arylglycerol-B-aryl ether bonds in milled wood lignin under kraft pulping conditions. Nordic Pulp and Paper Research Journal, 1997, 12, 282-288.	0.7	12
133	Nitrogen-Centered Activators of Peroxide-Reinforced Oxygen Delignification. Industrial & Engineering Chemistry Research, 2004, 43, 1200-1205.	3.7	12
134	Title is missing!. Die Makromolekulare Chemie, 1988, 189, 607-618.	1.1	11
135	Milox pulping: Lignin characterization by 31P NMR spectroscopy and oxidative degradation. Nordic Pulp and Paper Research Journal, 1995, 10, 68-73.	0.7	11
136	Charge and the dry-strength performance of polyampholytes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 301, 33-40.	4.7	10
137	3D Photoinduced Spatiotemporal Resolution of Cellulose-Based Hydrogels for Fabrication of Biomedical Devices. ACS Applied Bio Materials, 2020, 3, 5007-5019.	4.6	10
138	A facile synthesis of monodisperse carboxylated polystyrene and derivatives. Die Makromolekulare Chemie, 1986, 187, 1887-1894.	1.1	9
139	The Gel Degradation Theory. Part III. An Experimental Kinetic Verification. Journal of Wood Chemistry and Technology, 1987, 7, 499-511.	1.7	9
140	Polymerization beyond the gel point. I. The molecular weight of sol as a function of the extent of reaction. Journal of Polymer Science, Part B: Polymer Physics, 1987, 25, 1191-1202.	2.1	9
141	A Comparison of the Structural Changes Occurring in Lignin during Alcell and Kraft Pulping of Hardwoods and Softwoods. ACS Symposium Series, 1999, , 447-464.	0.5	9
142	Dependency of polyelectrolyte complex stoichiometry on the order of addition2. Aluminum chloride and poly-vinylsulfate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 246, 71-79.	4.7	9
143	Protein Analysis by31P NMR Spectroscopy in Ionic Liquid: Quantitative Determination of Enzymatically Created Cross-Links. Journal of Agricultural and Food Chemistry, 2011, 59, 1352-1362.	5.2	9
144	Photostabilizing Milled Wood Lignin with Benzotriazoles and Hindered Nitroxideâ€Â¶. Photochemistry and Photobiology, 2001, 73, 605.	2.5	9

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145	Aspects of retention and formation. Nordic Pulp and Paper Research Journal, 2006, 21, 638-645.	0.7	9
146	Proton spinâ€"lattice relaxation time measurements of solid wood and its constituents as a function of pH: Part II. Solid State Nuclear Magnetic Resonance, 1999, 15, 49-57.	2.3	8
147	Characterization of the soluble phase beyond the gel point. Macromolecules, 1986, 19, 3001-3003.	4.8	7
148	Magnetic Field and Temperature Effects on the Solid State Proton Spin-Lattice Relaxation Time Measurements of Wood and Pulps. Holzforschung, 1995, 49, 115-118.	1.9	7
149	Photoyellowing Inhibition of Bleached High Yield Pulps Using Novel Water-Soluble UV Screens. Photochemistry and Photobiology, 2000, 71, 141-148.	2.5	7
150	Dependency of polyelectrolyte complex stoichiometry on the order of addition. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 246, 71-79.	4.7	7
151	Kinetics of gelation in model polycondensates. Industrial & Engineering Chemistry Product Research and Development, 1986, 25, 578-582.	0.5	6
152	A perspective of lignin processing and utilization technologies for composites and plastics with emphasis on technical and market trends. BioResources, 2020, 16, 2084-2115.	1.0	6
153	Quantitative Study of the Interfacial Adsorption of Cellullase to Cellulose. Journal of Physical Chemistry C, 2015, 119, 14160-14166.	3.1	5
154	On the Interaction of UV Screens with the Lignocellulosic Matrix. Photochemistry and Photobiology, 2000, 71, 149.	2.5	5
155	On the Role of 1-Hydroxybenzotriazole as Mediator in Laccase Oxidation of Residual Kraft Lignin. ACS Symposium Series, 2001, , 373-390.	0.5	4
156	Determination of molecular weight distributions in native and pretreated wood. Carbohydrate Polymers, 2015, 119, 44-52.	10.2	4
157	Modifying the Functionality of Starch Films with Natural Polymers. ACS Symposium Series, 2007, , 200-218.	0.5	3
158	Solubilizing amino acids and polypeptides in supercritical CO2 via reverse micelle formation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 315, 110-116.	4.7	3
159	Bio-based materials: general discussion. Faraday Discussions, 2017, 202, 121-139.	3.2	3
160	Alkaline oxidative degradation of diphenylmethane structures Â— Activation energy and computational analysis of the reaction mechanism. Canadian Journal of Chemistry, 2001, 79, 1394-1401.	1.1	3
161	Alkaline oxidative degradation of diphenylmethane structures Â— Activation energy and computational analysis of the reaction mechanism. Canadian Journal of Chemistry, 2001, 79, 1394-1401.	1.1	2
162	Feedstocks and analysis: general discussion. Faraday Discussions, 2017, 202, 497-519.	3.2	2

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163	Quantitative ³¹P NMR Analysis of Lignins and Tannins. Journal of Visualized Experiments, 2021, , .	0.3	2
164	Maintaining the Brightness of Mechanical Pulps with Solid-State Perborate Bleaching. Holzforschung, 1998, 52, 319-324.	1.9	1
165	Oxidative Chemistry of Lignin in Supercritical Carbon Dioxide and Expanded Liquids. ACS Symposium Series, 2007, , 311-331.	0.5	1
166	On the Interaction of UV Screens with the Lignocellulosic Matrix. Photochemistry and Photobiology, 2000, 71, 149-156.	2.5	1
167	Photostabilizing Milled Wood Lignin with Benzotriazoles and Hindered Nitroxideâ€Â¶. Photochemistry and Photobiology, 2001, 73, 605-610.	2.5	1
168	Opportunities with Wood Dissolved in Ionic Liquids. ACS Symposium Series, 2010, , 343-363.	0.5	1
169	A Detailed Study of the Alkaline Oxidative Degradation of a Residual Kraft Lignin Model Compound. ACS Symposium Series, 2001, , 130-148.	0.5	0
170	Bio-based chemicals: general discussion. Faraday Discussions, 2017, 202, 227-245.	3.2	0
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