

# Dimitris S Argyropoulos

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7749561/dimitris-s-argyropoulos-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

168  
papers

9,161  
citations

49  
h-index

91  
g-index

179  
ext. papers

10,009  
ext. citations

4.3  
avg, IF

6.39  
L-index

#	Paper	IF	Citations
168	Copolymers of starch, a sustainable template for biomedical applications: A review.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 278, 118973	10.3	1
167	Computer Assisted Structure Elucidation (CASE): Current and future perspectives. <i>Magnetic Resonance in Chemistry</i> , <b>2021</b> , 59, 669-690	2.1	10
166	3D Photoinduced Spatiotemporal Resolution of Cellulose-Based Hydrogels for Fabrication of Biomedical Devices.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 5007-5019	4.1	6
165	A perspective of lignin processing and utilization technologies for composites and plastics with emphasis on technical and market trends. <i>BioResources</i> , <b>2020</b> , 16, 2084-2115	1.3	2
164	A facile strategy for photoactive nanocellulose-based antimicrobial materials. <i>Green Chemistry</i> , <b>2019</b> , 21, 3424-3435	10	33
163	Extraction and characterization of lignin from corncob residue after acid-catalyzed steam explosion pretreatment. <i>Industrial Crops and Products</i> , <b>2019</b> , 133, 241-249	5.9	33
162	Determination of hydroxyl groups in biorefinery resources via quantitative P NMR spectroscopy. <i>Nature Protocols</i> , <b>2019</b> , 14, 2627-2647	18.8	138
161	Are lignin-derived carbon fibers graphitic enough?. <i>Green Chemistry</i> , <b>2019</b> , 21, 4253-4265	10	33
160	NMReDATA, a standard to report the NMR assignment and parameters of organic compounds. <i>Magnetic Resonance in Chemistry</i> , <b>2018</b> , 56, 703-715	2.1	43
159	Synthesis and characterization of nano fibrillated cellulose/CuO films; micro and nano particle nucleation effects. <i>Carbohydrate Polymers</i> , <b>2018</b> , 197, 614-622	10.3	11
158	Ultrasound assisted polyacrylamide grafting on nano-fibrillated cellulose. <i>Carbohydrate Polymers</i> , <b>2018</b> , 181, 1071-1077	10.3	23
157	E-beam irradiation & steam explosion as biomass pretreatment, and the complex role of lignin in substrate recalcitrance. <i>Biomass and Bioenergy</i> , <b>2017</b> , 103, 21-28	5.3	22
156	Stable Organic Radicals in Lignin: A Review. <i>ChemSusChem</i> , <b>2017</b> , 10, 3284-3303	8.3	46
155	Feedstocks and analysis: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 202, 497-519	3.6	2
154	Bio-based materials: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 202, 121-139	3.6	3
153	On the structure of softwood kraft lignin. <i>Green Chemistry</i> , <b>2017</b> , 19, 4104-4121	10	240
152	Structure-property relationships for technical lignins for the production of lignin-phenol-formaldehyde resins. <i>Industrial Crops and Products</i> , <b>2017</b> , 108, 316-326	5.9	56

151	Toward Carbon Fibers from Single Component Kraft Lignin Systems: Optimization of Chain Extension Chemistry. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 5230-5237	8.3	22
150	Ionic Liquid Character of Zinc Chloride Hydrates Define Solvent Characteristics that Afford the Solubility of Cellulose. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 1134-41	3.4	48
149	Macroscopic Behavior of Kraft Lignin Fractions: Melt Stability Considerations for Lignin/Polyethylene Blends. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 5160-5166	8.3	40
148	Effect of Fatty Acid Esterification on the Thermal Properties of Softwood Kraft Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 5238-5247	8.3	57
147	Synthesis, Characterization, and Antimicrobial Efficacy of Photomicrobicidal Cellulose Paper. <i>Biomacromolecules</i> , <b>2015</b> , 16, 2482-92	6.9	70
146	Quantitative Study of the Interfacial Adsorption of Cellulase to Cellulose. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 150612090427003	3.8	4
145	Wood Extractives Promote Cellulase Activity on Cellulosic Substrates. <i>Biomacromolecules</i> , <b>2015</b> , 16, 3226-34	6.34	18
144	Methylation of softwood kraft lignin with dimethyl carbonate. <i>Green Chemistry</i> , <b>2015</b> , 17, 1077-1087	10	59
143	Determination of molecular weight distributions in native and pretreated wood. <i>Carbohydrate Polymers</i> , <b>2015</b> , 119, 44-52	10.3	4
142	Refining of Ethanol Biorefinery Residues to Isolate Value Added Lignins. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 1632-1641	8.3	21
141	Thermal properties of lignin in copolymers, blends, and composites: a review. <i>Green Chemistry</i> , <b>2015</b> , 17, 4862-4887	10	286
140	Correlations of the Antioxidant Properties of Softwood Kraft Lignin Fractions with the Thermal Stability of Its Blends with Polyethylene. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 349-356	8.3	110
139	Synthesis and Characterization of Poly(arylene ether sulfone) Kraft Lignin Heat Stable Copolymers. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 264-271	8.3	37
138	Fractional Precipitation of Softwood Kraft Lignin: Isolation of Narrow Fractions Common to a Variety of Lignins. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 959-968	8.3	135
137	Quantitative <sup>31</sup> P NMR analysis of solid wood offers an insight into the acetylation of its components. <i>Carbohydrate Polymers</i> , <b>2014</b> , 113, 552-60	10.3	19
136	Review of Cellulose Non-Derivatizing Solvent Interactions with Emphasis on Activity in Inorganic Molten Salt Hydrates. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2013</b> , 1, 858-870	8.3	178
135	Kraft lignin chain extension chemistry via propargylation, oxidative coupling, and Claisen rearrangement. <i>Biomacromolecules</i> , <b>2013</b> , 14, 3399-408	6.9	52
134	Fractionation of Lignocellulosic Materials Using Ionic Liquids: Part 2. Effect of Particle Size on the Mechanisms of Fractionation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 3958-3966	3.9	24

133	Efficient one-pot synthesis of 5-chloromethylfurfural (CMF) from carbohydrates in mild biphasic systems. <i>Molecules</i> , <b>2013</b> , 18, 7675-85	4.8	19
132	Porphyrin-cellulose nanocrystals: a photobactericidal material that exhibits broad spectrum antimicrobial activity. <i>Photochemistry and Photobiology</i> , <b>2012</b> , 88, 527-36	3.6	82
131	Pyrolysis Oils from Biomass and Their Upgrading <b>2012</b> , 263-280		
130	Toward Thermoplastic Lignin Polymers. Part 1. Selective Masking of Phenolic Hydroxyl Groups in Kraft Lignins via Methylation and Oxypropylation Chemistries. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 16713-16720	3.9	144
129	Accurate and reproducible determination of lignin molar mass by acetobromination. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 8968-73	5.7	100
128	Toward Thermoplastic Lignin Polymers; Part II: Thermal & Polymer Characteristics of Kraft Lignin & Derivatives. <i>BioResources</i> , <b>2012</b> , 8,	1.3	79
127	Photobactericidal porphyrin-cellulose nanocrystals: synthesis, characterization, and antimicrobial properties. <i>Biomacromolecules</i> , <b>2011</b> , 12, 3528-39	6.9	192
126	Molecular weight distributions and linkages in lignocellulosic materials derivatized from ionic liquid media. <i>Journal of Agricultural and Food Chemistry</i> , <b>2011</b> , 59, 829-38	5.7	54
125	Fractionation of Lignocellulosic Materials with Ionic Liquids. 1. Effect of Mechanical Treatment. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 12349-12357	3.9	28
124	Photoresponsive Cellulose Nanocrystals. <i>Nanomaterials and Nanotechnology</i> , <b>2011</b> , 1, 7	2.9	23
123	Production of cellulose nanocrystals using hydrobromic acid and click reactions on their surface. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 7344-7355	4.3	170
122	Protein analysis by 31p NMR spectroscopy in ionic liquid: quantitative determination of enzymatically created cross-links. <i>Journal of Agricultural and Food Chemistry</i> , <b>2011</b> , 59, 1352-62	5.7	8
121	Understanding the radical mechanism of lipoxygenases using 31P NMR spin trapping. <i>Bioorganic and Medicinal Chemistry</i> , <b>2011</b> , 19, 3022-8	3.4	14
120	Regular linking of cellulose nanocrystals via click chemistry: synthesis and formation of cellulose nanoplatelet gels. <i>Biomacromolecules</i> , <b>2010</b> , 11, 1060-6	6.9	161
119	Factors Affecting Wood Dissolution and Regeneration of Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 2477-2484	3.9	141
118	Acidolysis of Wood in Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 3126-3136	3.9	54
117	Monitoring Cellulase Protein Adsorption and Recovery Using SDS-PAGE. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 8333-8338	3.9	24
116	Opportunities with Wood Dissolved in Ionic Liquids. <i>ACS Symposium Series</i> , <b>2010</b> , 343-363	0.4	1

115	A new method for rapid degree of substitution and purity determination of chloroform-soluble cellulose esters, using $^{31}\text{P}$ NMR. <i>Analytical Methods</i> , <b>2010</b> , 2, 1499	3.2	42
114	Heteronuclear NMR Spectroscopy of Lignins <b>2010</b> , 245-265		20
113	Characterization of free radical spin adducts of the DIPPMPPO using mass spectrometry and $(^{31}\text{P})$ NMR. <i>European Journal of Mass Spectrometry</i> , <b>2010</b> , 16, 175-85	1.1	11
112	Highly compatible wood thermoplastic composites from lignocellulosic material modified in ionic liquids: Preparation and thermal properties. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 111, 2468-2476	2.9	33
111	Vibrational spectroscopy and X-ray diffraction methods to establish the differences between hardwood and softwood. <i>Carbohydrate Polymers</i> , <b>2009</b> , 77, 851-857	10.3	149
110	Phenoxy radical detection using $^{31}\text{P}$ NMR spin trapping. <i>Journal of Physical Organic Chemistry</i> , <b>2009</b> , 22, 1070-1077	2.1	18
109	Detection of ketyl radicals using $^{31}\text{P}$ NMR spin trapping. <i>Journal of Physical Organic Chemistry</i> , <b>2009</b> , 23, 505-512	2.1	13
108	Dispersion of cellulose crystallites by nonionic surfactants in a hydrophobic polymer matrix. <i>Polymer Engineering and Science</i> , <b>2009</b> , 49, 2054-2061	2.3	84
107	Biodiesel synthesis via homogeneous Lewis acid-catalyzed transesterification. <i>Fuel</i> , <b>2009</b> , 88, 560-565	7.1	151
106	Structure of the polyphenolic component of suberin isolated from potato ( <i>Solanum tuberosum</i> var. Nikola). <i>Journal of Agricultural and Food Chemistry</i> , <b>2009</b> , 57, 9747-53	5.7	35
105	Hydrophobic interactions determining functionalized lignocellulose solubility in dialkylimidazolium chlorides, as probed by $^{31}\text{P}$ NMR. <i>Biomacromolecules</i> , <b>2009</b> , 10, 458-63	6.9	34
104	In situ determination of lignin phenolics and wood solubility in imidazolium chlorides using $(^{31}\text{P})$ NMR. <i>Journal of Agricultural and Food Chemistry</i> , <b>2009</b> , 57, 8236-43	5.7	65
103	Antihypertensive drug valsartan in solution and at the AT1 receptor: conformational analysis, dynamic NMR spectroscopy, in silico docking, and molecular dynamics simulations. <i>Journal of Chemical Information and Modeling</i> , <b>2009</b> , 49, 726-39	6.1	39
102	Determination of Cellulose Reactivity by Using Phosphitylation and Quantitative $^{31}\text{P}$ NMR Spectroscopy. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 8906-8910	3.9	26
101	Propensity of lignin to associate: light scattering photometry study with native lignins. <i>Biomacromolecules</i> , <b>2008</b> , 9, 3362-9	6.9	74
100	Microwave-assisted lignin isolation using the enzymatic mild acidolysis (EMAL) protocol. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 10115-22	5.7	23
99	Determination of arylglycerol-beta-aryl ether linkages in enzymatic mild acidolysis lignins (EMAL): comparison of DFRC/ $(^{31}\text{P})$ NMR with thioacidolysis. <i>Journal of Natural Products</i> , <b>2008</b> , 71, 836-41	4.9	21
98	Isolation and characterization of lignins from <i>Eucalyptus grandis</i> Hill ex Maiden and <i>Eucalyptus globulus</i> Labill. by enzymatic mild acidolysis (EMAL). <i>Holzforschung</i> , <b>2008</b> , 62, 24-30	2	38

97	Tosylation and acylation of cellulose in 1-allyl-3-methylimidazolium chloride. <i>Cellulose</i> , <b>2008</b> , 15, 481-488	5	73
96	Understanding the pyrolysis of CCA-treated wood: Part I. Effect of metal ions. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2008</b> , 81, 60-64	6	38
95	Understanding the pyrolysis of CCA-treated wood. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2008</b> , 82, 140-144	6	20
94	Solubilizing amino acids and polypeptides in supercritical CO <sub>2</sub> via reverse micelle formation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2008</b> , 315, 110-116	5.1	3
93	An efficient and stereoselective dearylation of asarinin and sesamin tetrahydrofurofuran lignans to acuminatolide by methyltrioxorhenium/H <sub>2</sub> O <sub>2</sub> and UHP systems. <i>Journal of Natural Products</i> , <b>2007</b> , 70, 39-42	4.9	11
92	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. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 5258-5264	3.9	22
91	On the Interaction of UV Screens with the Lignocellulosic Matrix. <i>Photochemistry and Photobiology</i> , <b>2007</b> , 71, 149-156	3.6	1
90	Charge and the dry-strength performance of polyampholytes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2007</b> , 301, 33-40	5.1	9
89	Charge and the dry-strength performance of polyampholytes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2007</b> , 301, 23-32	5.1	18
88	A simple method to tune the gross antibacterial activity of cellulosic biomaterials. <i>Carbohydrate Polymers</i> , <b>2007</b> , 69, 805-810	10.3	14
87	On the propensity of lignin to associate: a size exclusion chromatography study with lignin derivatives isolated from different plant species. <i>Phytochemistry</i> , <b>2007</b> , 68, 2570-83	4	76
86	Lignins as Emulsion Stabilizers. <i>ACS Symposium Series</i> , <b>2007</b> , 182-199	0.4	27
85	Dissolution of wood in ionic liquids. <i>Journal of Agricultural and Food Chemistry</i> , <b>2007</b> , 55, 9142-8	5.7	781
84	Photostabilizing Milled Wood Lignin with Benzotriazoles and Hindered Nitroxide. <i>Photochemistry and Photobiology</i> , <b>2007</b> , 73, 605-610	3.6	1
83	Modifying the Functionality of Starch Films with Natural Polymers. <i>ACS Symposium Series</i> , <b>2007</b> , 200-218	0.4	3
82	Measurement of Cellulase Activity with Piezoelectric Resonators. <i>ACS Symposium Series</i> , <b>2007</b> , 478-494	0.4	11
81	Thorough chemical modification of wood-based lignocellulosic materials in ionic liquids. <i>Biomacromolecules</i> , <b>2007</b> , 8, 3740-8	6.9	167
80	Spectral characterization of eucalyptus wood. <i>Applied Spectroscopy</i> , <b>2007</b> , 61, 1168-77	3.1	193

79	Chemicals, Materials, and Energy from Biomass: A Review. <i>ACS Symposium Series</i> , <b>2007</b> , 2-30	0.4	9
78	Oxidative Chemistry of Lignin in Supercritical Carbon Dioxide and Expanded Liquids. <i>ACS Symposium Series</i> , <b>2007</b> , 311-331	0.4	1
77	Improving the physical and chemical functionality of starch-derived films with biopolymers. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 100, 2542-2548	2.9	33
76	Toward a better understanding of the lignin isolation process from wood. <i>Journal of Agricultural and Food Chemistry</i> , <b>2006</b> , 54, 5939-47	5.7	182
75	Spectral Monitoring of the Formation and Degradation of Polysulfide Ions in Alkaline Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 7388-7392	3.9	21
74	Comparative evaluation of three lignin isolation protocols for various wood species. <i>Journal of Agricultural and Food Chemistry</i> , <b>2006</b> , 54, 9696-705	5.7	174
73	Influence of Natural Biomaterials on the Elastic Properties of Starch-Derived Films: An Optimization Study. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 627-633	3.9	14
72	Chemicals and energy from biomass. <i>Canadian Journal of Chemistry</i> , <b>2006</b> , 84, 960-970	0.9	63
71	Immobilized methyltrioxo rhenium (MTO)/H <sub>2</sub> O <sub>2</sub> systems for the oxidation of lignin and lignin model compounds. <i>Bioorganic and Medicinal Chemistry</i> , <b>2006</b> , 14, 5292-302	3.4	111
70	Colloidal effects of acrylamide polyampholytes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2006</b> , 281, 74-81	5.1	12
69	Colloidal effects of acrylamide polyampholytes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2006</b> , 289, 89-95	5.1	16
68	Quantitative <sup>31</sup> P NMR detection of oxygen-centered and carbon-centered radical species. <i>Bioorganic and Medicinal Chemistry</i> , <b>2006</b> , 14, 4017-28	3.4	34
67	Aspects of retention and formation. <i>Nordic Pulp and Paper Research Journal</i> , <b>2006</b> , 21, 638-645	1.1	9
66	Development of the partial least squares models for the interpretation of the UV resonance Raman spectra of lignin model compounds. <i>Vibrational Spectroscopy</i> , <b>2005</b> , 37, 111-121	2.1	37
65	Quantitative <sup>1</sup> H NMR analysis of alkaline polysulfide solutions. <i>Holzforschung</i> , <b>2005</b> , 59, 124-131	2	17
64	Molecular weight-functional group relations in softwood residual kraft lignins. <i>Holzforschung</i> , <b>2005</b> , 59, 612-619	2	23
63	Dependency of polyelectrolyte complex stoichiometry on the order of addition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2004</b> , 246, 71-79	5.1	3
62	Nitrogen-Centered Activators of Peroxide-Reinforced Oxygen Delignification. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 1200-1205	3.9	11

61	Dependency of polyelectrolyte complex stoichiometry on the order of addition: 2. Aluminum chloride and poly-vinylsulfate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2004</b> , 246, 71-79	5.1	8
60	The effect of isolation method on the chemical structure of residual lignin. <i>Wood Science and Technology</i> , <b>2003</b> , 37, 91-102	2.5	106
59	On the mechanism of the laccase-mediator system in the oxidation of lignin. <i>Chemistry - A European Journal</i> , <b>2003</b> , 9, 5371-8	4.8	73
58	Abundance and reactivity of dibenzodioxocins in softwood lignin. <i>Journal of Agricultural and Food Chemistry</i> , <b>2002</b> , 50, 658-66	5.7	70
57	Alkaline oxidative degradation of diphenylmethane structures ? Activation energy and computational analysis of the reaction mechanism. <i>Canadian Journal of Chemistry</i> , <b>2001</b> , 79, 1394-1401	0.9	1
56	On the Role of 1-Hydroxybenzotriazole as Mediator in Laccase Oxidation of Residual Kraft Lignin. <i>ACS Symposium Series</i> , <b>2001</b> , 373-390	0.4	4
55	Factors limiting oxygen delignification of kraft pulp. <i>Canadian Journal of Chemistry</i> , <b>2001</b> , 79, 201-210	0.9	36
54	Quantitative (13)C NMR analysis of lignins with internal standards. <i>Journal of Agricultural and Food Chemistry</i> , <b>2001</b> , 49, 3573-8	5.7	91
53	Catalysis and Activation of Oxygen and Peroxide Delignification of Chemical Pulps: A Review. <i>ACS Symposium Series</i> , <b>2001</b> , 2-43	0.4	31
52	A Detailed Study of the Alkaline Oxidative Degradation of a Residual Kraft Lignin Model Compound. <i>ACS Symposium Series</i> , <b>2001</b> , 130-148	0.4	
51	Quantitative 31P NMR Spectroscopy of Lignins from Transgenic Poplars. <i>Holzforschung</i> , <b>2001</b> , 55, 386-390		34
50	Determination of arylglycerol-beta-aryl ethers and other linkages in lignins using DFRC/(31)P NMR. <i>Journal of Agricultural and Food Chemistry</i> , <b>2001</b> , 49, 536-42	5.7	59
49	Factors limiting oxygen delignification of kraft pulp. <i>Canadian Journal of Chemistry</i> , <b>2001</b> , 79, 201-210	0.9	30
48	Alkaline oxidative degradation of diphenylmethane structures ? Activation energy and computational analysis of the reaction mechanism. <i>Canadian Journal of Chemistry</i> , <b>2001</b> , 79, 1394-1401	0.9	3
47	Photostabilizing milled wood lignin with benzotriazoles and hindered nitroxide. <i>Photochemistry and Photobiology</i> , <b>2001</b> , 73, 605-10	3.6	8
46	Photoyellowing Inhibition of Bleached High Yield Pulps Using Novel Water-Soluble UV Screens. <i>Photochemistry and Photobiology</i> , <b>2000</b> , 71, 141-148	3.6	7
45	On the interaction of UV screens with the lignocellulosic matrix. <i>Photochemistry and Photobiology</i> , <b>2000</b> , 71, 149-56	3.6	4
44	Proton spin-lattice relaxation time measurements of solid wood and its constituents as a function of pH: part II. <i>Solid State Nuclear Magnetic Resonance</i> , <b>1999</b> , 15, 49-57	3.1	8



43	A Comparison of the Structural Changes Occurring in Lignin during Alcell and Kraft Pulping of Hardwoods and Softwoods. <i>ACS Symposium Series</i> , <b>1999</b> , 447-464	0.4	7
42	The effect of metal ions on the reaction of hydrogen peroxide with Kraft lignin model compounds. <i>Canadian Journal of Chemistry</i> , <b>1999</b> , 77, 667-675	0.9	29
41	<sup>19</sup> F nuclear magnetic resonance spectroscopy for the quantitative detection and classification of carbonyl groups in lignins. <i>Journal of Agricultural and Food Chemistry</i> , <b>1999</b> , 47, 190-201	5.7	34
40	The early oxidative biodegradation steps of residual kraft lignin models with laccase. <i>Bioorganic and Medicinal Chemistry</i> , <b>1998</b> , 6, 2161-9	3.4	115
39	Structural modifications induced during biodegradation of wheat lignin by <i>Lentinula edodes</i> . <i>Bioorganic and Medicinal Chemistry</i> , <b>1998</b> , 6, 967-73	3.4	36
38	On the formation of diphenylmethane structures in lignin under kraft, EMCC $\square$ , and soda pulping conditions. <i>Canadian Journal of Chemistry</i> , <b>1998</b> , 76, 506-512	0.9	21
37	Semiquantitative Determination of Quinonoid Structures in Isolated Lignins by <sup>31</sup> P Nuclear Magnetic Resonance. <i>Journal of Agricultural and Food Chemistry</i> , <b>1998</b> , 46, 4628-4634	5.7	13
36	Maintaining the Brightness of Mechanical Pulps with Solid-State Perborate Bleaching. <i>Holzforschung</i> , <b>1998</b> , 52, 319-324	2	1
35	Fundamentals of oxygen delignification. Part II. Functional group formation/elimination in residual kraft lignin. <i>Canadian Journal of Chemistry</i> , <b>1998</b> , 76, 1606-1615	0.9	35
34	Coupling P-31 NMR with the Mannich reaction for the quantitative analysis of lignin. <i>Canadian Journal of Chemistry</i> , <b>1998</b> , 76, 612-622	0.9	11
33	A Study of Poly(hydroxyalkanoate)s by Quantitative <sup>31</sup> P NMR Spectroscopy: Molecular Weight and Chain Cleavage. <i>Macromolecules</i> , <b>1997</b> , 30, 327-329	5.5	38
32	Structural Analysis of Wheat Straw Lignin by Quantitative <sup>31</sup> P and 2D NMR Spectroscopy. The Occurrence of Ester Bonds and EO-4 Substructures. <i>Journal of Agricultural and Food Chemistry</i> , <b>1997</b> , 45, 1212-1219	5.7	195
31	Thermodynamic parameters governing the stereoselective degradation of arylglycerol-B-aryl ether bonds in milled wood lignin under kraft pulping conditions. <i>Nordic Pulp and Paper Research Journal</i> , <b>1997</b> , 12, 282-288	1.1	10
30	Lignin. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>1997</b> , 127-158	1.7	32
29	<sup>19</sup> F Nuclear Magnetic Resonance Spectroscopy for the Elucidation of Carbonyl Groups in Lignins. 1. Model Compounds. <i>Journal of Agricultural and Food Chemistry</i> , <b>1996</b> , 44, 2167-2175	5.7	19
28	Photochemically Induced Solid-State Degradation, Condensation, and Rearrangement Reactions in Lignin Model Compounds and Milled Wood Lignin. <i>Photochemistry and Photobiology</i> , <b>1996</b> , 64, 510-517	3.6	37
27	A comparison of lignin polymer models (DHPs) and lignins by <sup>31</sup> P NMR spectroscopy. <i>Phytochemistry</i> , <b>1996</b> , 43, 499-507	4	62
26	A Comparison of the Reactivity and Efficiency of Ozone, Chlorine Dioxide, Dimethyldioxirane and Hydrogen Peroxide with Residual Kraft Lignin. <i>Holzforschung</i> , <b>1996</b> , 50, 175-182	2	28

25	Observation of quinonoid groups during the light-induced yellowing of softwood mechanical pulp. <i>Research on Chemical Intermediates</i> , <b>1995</b> , 21, 263-274	2.8	30
24	31P NMR in wood chemistry: A review of recent progress. <i>Research on Chemical Intermediates</i> , <b>1995</b> , 21, 373-395	2.8	114
23	Milox pulping: Lignin characterization by 31P NMR spectroscopy and oxidative degradation. <i>Nordic Pulp and Paper Research Journal</i> , <b>1995</b> , 10, 68-73	1.1	10
22	Magnetic Field and Temperature Effects on the Solid State Proton Spin-Lattice Relaxation Time Measurements of Wood and Pulps. <i>Holzforschung</i> , <b>1995</b> , 49, 115-118	2	6
21	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. <i>Journal of Agricultural and Food Chemistry</i> , <b>1995</b> , 43, 1538-1544	5.7	631
20	Correlation analysis of 31P NMR chemical shifts with substituent effects of phenols. <i>Magnetic Resonance in Chemistry</i> , <b>1995</b> , 33, 375-382	2.1	78
19	31P NMR Spectroscopy in Wood Chemistry. Part VI. Solid State 31P NMR of Trimethyl Phosphite Derivatives of Chromophores and Carboxylic Acids Present in Mechanical Pulps; a Method for the Quantitative Determination of ortho-Quinones. <i>Holzforschung</i> , <b>1994</b> , 48, 112-116	2	19
18	Quantitative Phosphorus-31 NMR Analysis of Six Soluble Lignins. <i>Journal of Wood Chemistry and Technology</i> , <b>1994</b> , 14, 65-82	2	65
17	Determination of Hydroxyl Groups in Lignins Evaluation of 1H-, 13C-, 31P-NMR, FTIR and Wet Chemical Methods. <i>Holzforschung</i> , <b>1994</b> , 48, 387-394	2	109
16	Quantitative Phosphorus-31 NMR Analysis of Lignins, a New Tool for the Lignin Chemist. <i>Journal of Wood Chemistry and Technology</i> , <b>1994</b> , 14, 45-63	2	189
15	31P NMR Spectroscopy in Wood Chemistry Part V. Qualitative Analysis of Lignin Functional Groups. <i>Journal of Wood Chemistry and Technology</i> , <b>1993</b> , 13, 187-212	2	38
14	31P NMR Spectroscopy in Wood Chemistry. Part IV. Lignin Models: Spin Lattice Relaxation Times and Solvent Effects in 31P NMR. <i>Holzforschung</i> , <b>1993</b> , 47, 50-56	2	23
13	P NMR Spectroscopy in Wood Chemistry - Part III. Solid State 31P NMR of Trimethyl Phosphite Derivatives of Chromophores in Mechanical Pulp. <i>Holzforschung</i> , <b>1992</b> , 46, 211-218	2	17
12	31P-N.m.r. spectroscopy in wood chemistry. Phosphite derivatives of carbohydrates. <i>Carbohydrate Research</i> , <b>1991</b> , 220, 49-61	2.9	32
11	31P NMR Spectroscopy in Wood Chemistry. I. Model Compounds. <i>Journal of Wood Chemistry and Technology</i> , <b>1991</b> , 11, 137-157	2	44
10	The gel degradation theory, 2. An experimental verification with model networks formed by the random crosslinking of monodisperse primary chains. <i>Die Makromolekulare Chemie</i> , <b>1988</b> , 189, 607-618		10
9	Species distribution within the soluble phase beyond the gel point. <i>Macromolecules</i> , <b>1987</b> , 20, 357-361	5.5	14
8	Condensation of Lignin in Dioxane-Water-HCl. <i>Journal of Wood Chemistry and Technology</i> , <b>1987</b> , 7, 1-23	2	15

7	The Gel Degradation Theory. Part III. An Experimental Kinetic Verification. <i>Journal of Wood Chemistry and Technology</i> , <b>1987</b> , 7, 499-511	2	9
6	Gel degradation theory. 1. An experimental verification with a model trifunctional network. <i>Macromolecules</i> , <b>1987</b> , 20, 2915-2922	5.5	23
5	Polymerization beyond the gel point. I. The molecular weight of sol as a function of the extent of reaction. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1987</b> , 25, 1191-1202	2.6	6
4	Polymerization beyond the gel point, 2. A study of the soluble fraction as a function of the extent of reaction. <i>Die Makromolekulare Chemie</i> , <b>1987</b> , 188, 1985-1992		10
3	Kinetics of gelation in model polycondensates. <i>Industrial &amp; Engineering Chemistry Product Research and Development</i> , <b>1986</b> , 25, 578-582		4
2	A facile synthesis of monodisperse carboxylated polystyrene and derivatives. <i>Die Makromolekulare Chemie</i> , <b>1986</b> , 187, 1887-1894		4
1	Characterization of the soluble phase beyond the gel point. <i>Macromolecules</i> , <b>1986</b> , 19, 3001-3003	5.5	6