

Dimitris S Argyropoulos

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168
papers

9,161
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h-index

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179
ext. papers

10,009
ext. citations

4.3
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L-index

#	Paper	IF	Citations
168	Dissolution of wood in ionic liquids. <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 9142-8	5.7	781
167	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> , 1995 , 43, 1538-1544	5.7	631
166	Thermal properties of lignin in copolymers, blends, and composites: a review. <i>Green Chemistry</i> , 2015 , 17, 4862-4887	10	286
165	On the structure of softwood kraft lignin. <i>Green Chemistry</i> , 2017 , 19, 4104-4121	10	240
164	Structural Analysis of Wheat Straw Lignin by Quantitative 31P and 2D NMR Spectroscopy. The Occurrence of Ester Bonds and β -O-4 Substructures. <i>Journal of Agricultural and Food Chemistry</i> , 1997 , 45, 1212-1219	5.7	195
163	Spectral characterization of eucalyptus wood. <i>Applied Spectroscopy</i> , 2007 , 61, 1168-77	3.1	193
162	Photobactericidal porphyrin-cellulose nanocrystals: synthesis, characterization, and antimicrobial properties. <i>Biomacromolecules</i> , 2011 , 12, 3528-39	6.9	192
161	Quantitative Phosphorus-31 NMR Analysis of Lignins, a New Tool for the Lignin Chemist. <i>Journal of Wood Chemistry and Technology</i> , 1994 , 14, 45-63	2	189
160	Toward a better understanding of the lignin isolation process from wood. <i>Journal of Agricultural and Food Chemistry</i> , 2006 , 54, 5939-47	5.7	182
159	Review of Cellulose Non-Derivatizing Solvent Interactions with Emphasis on Activity in Inorganic Molten Salt Hydrates. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 858-870	8.3	178
158	Comparative evaluation of three lignin isolation protocols for various wood species. <i>Journal of Agricultural and Food Chemistry</i> , 2006 , 54, 9696-705	5.7	174
157	Production of cellulose nanocrystals using hydrobromic acid and click reactions on their surface. <i>Journal of Materials Science</i> , 2011 , 46, 7344-7355	4.3	170
156	Thorough chemical modification of wood-based lignocellulosic materials in ionic liquids. <i>Biomacromolecules</i> , 2007 , 8, 3740-8	6.9	167
155	Regular linking of cellulose nanocrystals via click chemistry: synthesis and formation of cellulose nanoplatelet gels. <i>Biomacromolecules</i> , 2010 , 11, 1060-6	6.9	161
154	Biodiesel synthesis via homogeneous Lewis acid-catalyzed transesterification. <i>Fuel</i> , 2009 , 88, 560-565	7.1	151
153	Vibrational spectroscopy and X-ray diffraction methods to establish the differences between hardwood and softwood. <i>Carbohydrate Polymers</i> , 2009 , 77, 851-857	10.3	149
152	Toward Thermoplastic Lignin Polymers. Part 1. Selective Masking of Phenolic Hydroxyl Groups in Kraft Lignins via Methylation and Oxypropylation Chemistries. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 16713-16720	3.9	144

151	Factors Affecting Wood Dissolution and Regeneration of Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 2477-2484	3.9	141
150	Determination of hydroxyl groups in biorefinery resources via quantitative P NMR spectroscopy. <i>Nature Protocols</i> , 2019 , 14, 2627-2647	18.8	138
149	Fractional Precipitation of Softwood Kraft Lignin: Isolation of Narrow Fractions Common to a Variety of Lignins. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 959-968	8.3	135
148	The early oxidative biodegradation steps of residual kraft lignin models with laccase. <i>Bioorganic and Medicinal Chemistry</i> , 1998 , 6, 2161-9	3.4	115
147	31P NMR in wood chemistry: A review of recent progress. <i>Research on Chemical Intermediates</i> , 1995 , 21, 373-395	2.8	114
146	Immobilized methyltrioxo rhenium (MTO)/H ₂ O ₂ systems for the oxidation of lignin and lignin model compounds. <i>Bioorganic and Medicinal Chemistry</i> , 2006 , 14, 5292-302	3.4	111
145	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> , 2015 , 3, 349-356	8.3	110
144	Determination of Hydroxyl Groups in Lignins Evaluation of 1H-, 13C-, 31P-NMR, FTIR and Wet Chemical Methods. <i>Holzforchung</i> , 1994 , 48, 387-394	2	109
143	The effect of isolation method on the chemical structure of residual lignin. <i>Wood Science and Technology</i> , 2003 , 37, 91-102	2.5	106
142	Accurate and reproducible determination of lignin molar mass by acetobromination. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 8968-73	5.7	100
141	Quantitative (13)C NMR analysis of lignins with internal standards. <i>Journal of Agricultural and Food Chemistry</i> , 2001 , 49, 3573-8	5.7	91
140	Dispersion of cellulose crystallites by nonionic surfactants in a hydrophobic polymer matrix. <i>Polymer Engineering and Science</i> , 2009 , 49, 2054-2061	2.3	84
139	Porphyrin-cellulose nanocrystals: a photobactericidal material that exhibits broad spectrum antimicrobial activity. <i>Photochemistry and Photobiology</i> , 2012 , 88, 527-36	3.6	82
138	Toward Thermoplastic Lignin Polymers; Part II: Thermal & Polymer Characteristics of Kraft Lignin & Derivatives. <i>BioResources</i> , 2012 , 8,	1.3	79
137	Correlation analysis of 31P NMR chemical shifts with substituent effects of phenols. <i>Magnetic Resonance in Chemistry</i> , 1995 , 33, 375-382	2.1	78
136	On the propensity of lignin to associate: a size exclusion chromatography study with lignin derivatives isolated from different plant species. <i>Phytochemistry</i> , 2007 , 68, 2570-83	4	76
135	Propensity of lignin to associate: light scattering photometry study with native lignins. <i>Biomacromolecules</i> , 2008 , 9, 3362-9	6.9	74
134	Tosylation and acylation of cellulose in 1-allyl-3-methylimidazolium chloride. <i>Cellulose</i> , 2008 , 15, 481-488	5.5	73

133	On the mechanism of the laccase-mediator system in the oxidation of lignin. <i>Chemistry - A European Journal</i> , 2003 , 9, 5371-8	4.8	73
132	Synthesis, Characterization, and Antimicrobial Efficacy of Photomicrobicidal Cellulose Paper. <i>Biomacromolecules</i> , 2015 , 16, 2482-92	6.9	70
131	Abundance and reactivity of dibenzodioxocins in softwood lignin. <i>Journal of Agricultural and Food Chemistry</i> , 2002 , 50, 658-66	5.7	70
130	In situ determination of lignin phenolics and wood solubility in imidazolium chlorides using (31)P NMR. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 8236-43	5.7	65
129	Quantitative Phosphorus-31 NMR Analysis of Six Soluble Lignins. <i>Journal of Wood Chemistry and Technology</i> , 1994 , 14, 65-82	2	65
128	Chemicals and energy from biomass. <i>Canadian Journal of Chemistry</i> , 2006 , 84, 960-970	0.9	63
127	A comparison of lignin polymer models (DHPs) and lignins by 31P NMR spectroscopy. <i>Phytochemistry</i> , 1996 , 43, 499-507	4	62
126	Methylation of softwood kraft lignin with dimethyl carbonate. <i>Green Chemistry</i> , 2015 , 17, 1077-1087	10	59
125	Determination of arylglycerol-beta-aryl ethers and other linkages in lignins using DFRC/(31)P NMR. <i>Journal of Agricultural and Food Chemistry</i> , 2001 , 49, 536-42	5.7	59
124	Effect of Fatty Acid Esterification on the Thermal Properties of Softwood Kraft Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5238-5247	8.3	57
123	Structure-property relationships for technical lignins for the production of lignin-phenol-formaldehyde resins. <i>Industrial Crops and Products</i> , 2017 , 108, 316-326	5.9	56
122	Molecular weight distributions and linkages in lignocellulosic materials derivatized from ionic liquid media. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 829-38	5.7	54
121	Acidolysis of Wood in Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 3126-3136	3.9	54
120	Kraft lignin chain extension chemistry via propargylation, oxidative coupling, and Claisen rearrangement. <i>Biomacromolecules</i> , 2013 , 14, 3399-408	6.9	52
119	Ionic Liquid Character of Zinc Chloride Hydrates Define Solvent Characteristics that Afford the Solubility of Cellulose. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 1134-41	3.4	48
118	Stable Organic Radicals in Lignin: A Review. <i>ChemSusChem</i> , 2017 , 10, 3284-3303	8.3	46
117	31P NMR Spectroscopy in Wood Chemistry. I. Model Compounds. <i>Journal of Wood Chemistry and Technology</i> , 1991 , 11, 137-157	2	44
116	NMRDATA, a standard to report the NMR assignment and parameters of organic compounds. <i>Magnetic Resonance in Chemistry</i> , 2018 , 56, 703-715	2.1	43

115	A new method for rapid degree of substitution and purity determination of chloroform-soluble cellulose esters, using 31P NMR. <i>Analytical Methods</i> , 2010 , 2, 1499	3.2	42
114	Macroscopic Behavior of Kraft Lignin Fractions: Melt Stability Considerations for Lignin/Polyethylene Blends. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5160-5166	8.3	40
113	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> , 2009 , 49, 726-39	6.1	39
112	A Study of Poly(hydroxyalkanoate)s by Quantitative 31P NMR Spectroscopy: Molecular Weight and Chain Cleavage. <i>Macromolecules</i> , 1997 , 30, 327-329	5.5	38
111	Isolation and characterization of lignins from Eucalyptus grandis Hill ex Maiden and Eucalyptus globulus Labill. by enzymatic mild acidolysis (EMAL). <i>Holzforschung</i> , 2008 , 62, 24-30	2	38
110	Understanding the pyrolysis of CCA-treated wood: Part I. Effect of metal ions. <i>Journal of Analytical and Applied Pyrolysis</i> , 2008 , 81, 60-64	6	38
109	31P NMR Spectroscopy in Wood Chemistry Part V. Qualitative Analysis of Lignin Functional Groups. <i>Journal of Wood Chemistry and Technology</i> , 1993 , 13, 187-212	2	38
108	Synthesis and Characterization of Poly(arylene ether sulfone) Kraft Lignin Heat Stable Copolymers. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 264-271	8.3	37
107	Development of the partial least squares models for the interpretation of the UV resonance Raman spectra of lignin model compounds. <i>Vibrational Spectroscopy</i> , 2005 , 37, 111-121	2.1	37
106	Photochemically Induced Solid-State Degradation, Condensation, and Rearrangement Reactions in Lignin Model Compounds and Milled Wood Lignin. <i>Photochemistry and Photobiology</i> , 1996 , 64, 510-517	3.6	37
105	Structural modifications induced during biodegradation of wheat lignin by Lentinula edodes. <i>Bioorganic and Medicinal Chemistry</i> , 1998 , 6, 967-73	3.4	36
104	Factors limiting oxygen delignification of kraft pulp. <i>Canadian Journal of Chemistry</i> , 2001 , 79, 201-210	0.9	36
103	Structure of the polyphenolic component of suberin isolated from potato (<i>Solanum tuberosum</i> var. Nikola). <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 9747-53	5.7	35
102	Fundamentals of oxygen delignification. Part II. Functional group formation/elimination in residual kraft lignin. <i>Canadian Journal of Chemistry</i> , 1998 , 76, 1606-1615	0.9	35
101	Hydrophobic interactions determining functionalized lignocellulose solubility in dialkylimidazolium chlorides, as probed by 31P NMR. <i>Biomacromolecules</i> , 2009 , 10, 458-63	6.9	34
100	Quantitative 31P NMR detection of oxygen-centered and carbon-centered radical species. <i>Bioorganic and Medicinal Chemistry</i> , 2006 , 14, 4017-28	3.4	34
99	Quantitative 31P NMR Spectroscopy of Lignins from Transgenic Poplars. <i>Holzforschung</i> , 2001 , 55, 386-390		34
98	19F nuclear magnetic resonance spectroscopy for the quantitative detection and classification of carbonyl groups in lignins. <i>Journal of Agricultural and Food Chemistry</i> , 1999 , 47, 190-201	5.7	34

97	A facile strategy for photoactive nanocellulose-based antimicrobial materials. <i>Green Chemistry</i> , 2019 , 21, 3424-3435	10	33
96	Extraction and characterization of lignin from corncob residue after acid-catalyzed steam explosion pretreatment. <i>Industrial Crops and Products</i> , 2019 , 133, 241-249	5.9	33
95	Are lignin-derived carbon fibers graphitic enough?. <i>Green Chemistry</i> , 2019 , 21, 4253-4265	10	33
94	Highly compatible wood thermoplastic composites from lignocellulosic material modified in ionic liquids: Preparation and thermal properties. <i>Journal of Applied Polymer Science</i> , 2009 , 111, 2468-2476	2.9	33
93	Improving the physical and chemical functionality of starch-derived films with biopolymers. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 2542-2548	2.9	33
92	Lignin. <i>Advances in Biochemical Engineering/Biotechnology</i> , 1997 , 127-158	1.7	32
91	³¹ P-N.m.r. spectroscopy in wood chemistry. Phosphite derivatives of carbohydrates. <i>Carbohydrate Research</i> , 1991 , 220, 49-61	2.9	32
90	Catalysis and Activation of Oxygen and Peroxide Delignification of Chemical Pulps: A Review. <i>ACS Symposium Series</i> , 2001 , 2-43	0.4	31
89	Observation of quinonoid groups during the light-induced yellowing of softwood mechanical pulp. <i>Research on Chemical Intermediates</i> , 1995 , 21, 263-274	2.8	30
88	Factors limiting oxygen delignification of kraft pulp. <i>Canadian Journal of Chemistry</i> , 2001 , 79, 201-210	0.9	30
87	The effect of metal ions on the reaction of hydrogen peroxide with Kraft lignin model compounds. <i>Canadian Journal of Chemistry</i> , 1999 , 77, 667-675	0.9	29
86	Fractionation of Lignocellulosic Materials with Ionic Liquids. 1. Effect of Mechanical Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 12349-12357	3.9	28
85	A Comparison of the Reactivity and Efficiency of Ozone, Chlorine Dioxide, Dimethyldioxirane and Hydrogen Peroxide with Residual Kraft Lignin. <i>Holzforschung</i> , 1996 , 50, 175-182	2	28
84	Lignins as Emulsion Stabilizers. <i>ACS Symposium Series</i> , 2007 , 182-199	0.4	27
83	Determination of Cellulose Reactivity by Using Phosphitylation and Quantitative ³¹ P NMR Spectroscopy. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 8906-8910	3.9	26
82	Fractionation of Lignocellulosic Materials Using Ionic Liquids: Part 2. Effect of Particle Size on the Mechanisms of Fractionation. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 3958-3966	3.9	24
81	Monitoring Cellulase Protein Adsorption and Recovery Using SDS-PAGE. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 8333-8338	3.9	24
80	Photoresponsive Cellulose Nanocrystals. <i>Nanomaterials and Nanotechnology</i> , 2011 , 1, 7	2.9	23

79	Microwave-assisted lignin isolation using the enzymatic mild acidolysis (EMAL) protocol. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 10115-22	5.7	23
78	Molecular weight-functional group relations in softwood residual kraft lignins. <i>Holzforschung</i> , 2005 , 59, 612-619	2	23
77	31P NMR Spectroscopy in Wood Chemistry. Part IV. Lignin Models: Spin Lattice Relaxation Times and Solvent Effects in 31P NMR. <i>Holzforschung</i> , 1993 , 47, 50-56	2	23
76	Gel degradation theory. 1. An experimental verification with a model trifunctional network. <i>Macromolecules</i> , 1987 , 20, 2915-2922	5.5	23
75	Ultrasound assisted polyacrylamide grafting on nano-fibrillated cellulose. <i>Carbohydrate Polymers</i> , 2018 , 181, 1071-1077	10.3	23
74	E-beam irradiation & steam explosion as biomass pretreatment, and the complex role of lignin in substrate recalcitrance. <i>Biomass and Bioenergy</i> , 2017 , 103, 21-28	5.3	22
73	Toward Carbon Fibers from Single Component Kraft Lignin Systems: Optimization of Chain Extension Chemistry. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5230-5237	8.3	22
72	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 & Engineering Chemistry Research</i> , 2007 , 46, 5258-5264	3.9	22
71	Refining of Ethanol Biorefinery Residues to Isolate Value Added Lignins. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1632-1641	8.3	21
70	On the formation of diphenylmethane structures in lignin under kraft, EMCCl, and soda pulping conditions. <i>Canadian Journal of Chemistry</i> , 1998 , 76, 506-512	0.9	21
69	Determination of arylglycerol-beta-aryl ether linkages in enzymatic mild acidolysis lignins (EMAL): comparison of DFRC/(31)P NMR with thioacidolysis. <i>Journal of Natural Products</i> , 2008 , 71, 836-41	4.9	21
68	Spectral Monitoring of the Formation and Degradation of Polysulfide Ions in Alkaline Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 7388-7392	3.9	21
67	Heteronuclear NMR Spectroscopy of Lignins 2010 , 245-265		20
66	Understanding the pyrolysis of CCA-treated wood. <i>Journal of Analytical and Applied Pyrolysis</i> , 2008 , 82, 140-144	6	20
65	Quantitative 31P NMR analysis of solid wood offers an insight into the acetylation of its components. <i>Carbohydrate Polymers</i> , 2014 , 113, 552-60	10.3	19
64	Efficient one-pot synthesis of 5-chloromethylfurfural (CMF) from carbohydrates in mild biphasic systems. <i>Molecules</i> , 2013 , 18, 7675-85	4.8	19
63	19F Nuclear Magnetic Resonance Spectroscopy for the Elucidation of Carbonyl Groups in Lignins. 1. Model Compounds. <i>Journal of Agricultural and Food Chemistry</i> , 1996 , 44, 2167-2175	5.7	19
62	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> , 1994 , 48, 112-116	2	19

61	Wood Extractives Promote Cellulase Activity on Cellulosic Substrates. <i>Biomacromolecules</i> , 2015 , 16, 3226-34	6.34	18
60	Phenoxy radical detection using ³¹ P NMR spin trapping. <i>Journal of Physical Organic Chemistry</i> , 2009 , 22, 1070-1077	2.1	18
59	Charge and the dry-strength performance of polyampholytes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007 , 301, 23-32	5.1	18
58	Quantitative ¹ H NMR analysis of alkaline polysulfide solutions. <i>Holzforschung</i> , 2005 , 59, 124-131	2	17
57	P NMR Spectroscopy in Wood Chemistry - Part III. Solid State ³¹ P NMR of Trimethyl Phosphite Derivatives of Chromophores in Mechanical Pulp. <i>Holzforschung</i> , 1992 , 46, 211-218	2	17
56	Colloidal effects of acrylamide polyampholytes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006 , 289, 89-95	5.1	16
55	Condensation of Lignin in Dioxane-Water-HCl. <i>Journal of Wood Chemistry and Technology</i> , 1987 , 7, 1-23	2	15
54	Understanding the radical mechanism of lipoxygenases using ³¹ P NMR spin trapping. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 3022-8	3.4	14
53	A simple method to tune the gross antibacterial activity of cellulosic biomaterials. <i>Carbohydrate Polymers</i> , 2007 , 69, 805-810	10.3	14
52	Influence of Natural Biomaterials on the Elastic Properties of Starch-Derived Films: An Optimization Study. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 627-633	3.9	14
51	Species distribution within the soluble phase beyond the gel point. <i>Macromolecules</i> , 1987 , 20, 357-361	5.5	14
50	Detection of ketyl radicals using ³¹ P NMR spin trapping. <i>Journal of Physical Organic Chemistry</i> , 2009 , 23, 505-512	2.1	13
49	Semiquantitative Determination of Quinonoid Structures in Isolated Lignins by ³¹ P Nuclear Magnetic Resonance. <i>Journal of Agricultural and Food Chemistry</i> , 1998 , 46, 4628-4634	5.7	13
48	Colloidal effects of acrylamide polyampholytes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006 , 281, 74-81	5.1	12
47	Synthesis and characterization of nano fibrillated cellulose/CuO films; micro and nano particle nucleation effects. <i>Carbohydrate Polymers</i> , 2018 , 197, 614-622	10.3	11
46	Characterization of free radical spin adducts of the DIPPMPPO using mass spectrometry and (³¹)P NMR. <i>European Journal of Mass Spectrometry</i> , 2010 , 16, 175-85	1.1	11
45	An efficient and stereoselective dearylation of asarinin and sesamin tetrahydrofurofuran lignans to acuminatolide by methyltrioxorhenium/H(2)O(2) and UHP systems. <i>Journal of Natural Products</i> , 2007 , 70, 39-42	4.9	11
44	Measurement of Cellulase Activity with Piezoelectric Resonators. <i>ACS Symposium Series</i> , 2007 , 478-494	0.4	11

43	Nitrogen-Centered Activators of Peroxide-Reinforced Oxygen Delignification. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 1200-1205	3.9	11
42	Coupling P-31 NMR with the Mannich reaction for the quantitative analysis of lignin. <i>Canadian Journal of Chemistry</i> , 1998 , 76, 612-622	0.9	11
41	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> , 1997 , 12, 282-288	1.1	10
40	Milox pulping: Lignin characterization by 31P NMR spectroscopy and oxidative degradation. <i>Nordic Pulp and Paper Research Journal</i> , 1995 , 10, 68-73	1.1	10
39	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> , 1987 , 188, 1985-1992		10
38	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> , 1988 , 189, 607-618		10
37	Computer Assisted Structure Elucidation (CASE): Current and future perspectives. <i>Magnetic Resonance in Chemistry</i> , 2021 , 59, 669-690	2.1	10
36	Charge and the dry-strength performance of polyampholytes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007 , 301, 33-40	5.1	9
35	Chemicals, Materials, and Energy from Biomass: A Review. <i>ACS Symposium Series</i> , 2007 , 2-30	0.4	9
34	The Gel Degradation Theory. Part III. An Experimental Kinetic Verification. <i>Journal of Wood Chemistry and Technology</i> , 1987 , 7, 499-511	2	9
33	Aspects of retention and formation. <i>Nordic Pulp and Paper Research Journal</i> , 2006 , 21, 638-645	1.1	9
32	Protein analysis by 31p NMR spectroscopy in ionic liquid: quantitative determination of enzymatically created cross-links. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 1352-62	5.7	8
31	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> , 2004 , 246, 71-79	5.1	8
30	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> , 1999 , 15, 49-57	3.1	8
29	Photostabilizing milled wood lignin with benzotriazoles and hindered nitroxide. <i>Photochemistry and Photobiology</i> , 2001 , 73, 605-10	3.6	8
28	Photoyellowing Inhibition of Bleached High Yield Pulp Using Novel Water-Soluble UV Screens. <i>Photochemistry and Photobiology</i> , 2000 , 71, 141-148	3.6	7
27	A Comparison of the Structural Changes Occurring in Lignin during Alcell and Kraft Pulping of Hardwoods and Softwoods. <i>ACS Symposium Series</i> , 1999 , 447-464	0.4	7
26	3D Photoinduced Spatiotemporal Resolution of Cellulose-Based Hydrogels for Fabrication of Biomedical Devices.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 5007-5019	4.1	6

25	Magnetic Field and Temperature Effects on the Solid State Proton Spin-Lattice Relaxation Time Measurements of Wood and Pulps. <i>Holzforschung</i> , 1995 , 49, 115-118	2	6
24	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> , 1987 , 25, 1191-1202	2.6	6
23	Characterization of the soluble phase beyond the gel point. <i>Macromolecules</i> , 1986 , 19, 3001-3003	5.5	6
22	Quantitative Study of the Interfacial Adsorption of Cellulase to Cellulose. <i>Journal of Physical Chemistry C</i> , 2015 , 150612090427003	3.8	4
21	Determination of molecular weight distributions in native and pretreated wood. <i>Carbohydrate Polymers</i> , 2015 , 119, 44-52	10.3	4
20	On the Role of 1-Hydroxybenzotriazole as Mediator in Laccase Oxidation of Residual Kraft Lignin. <i>ACS Symposium Series</i> , 2001 , 373-390	0.4	4
19	Kinetics of gelation in model polycondensates. <i>Industrial & Engineering Chemistry Product Research and Development</i> , 1986 , 25, 578-582		4
18	A facile synthesis of monodisperse carboxylated polystyrene and derivatives. <i>Die Makromolekulare Chemie</i> , 1986 , 187, 1887-1894		4
17	On the interaction of UV screens with the lignocellulosic matrix. <i>Photochemistry and Photobiology</i> , 2000 , 71, 149-56	3.6	4
16	Bio-based materials: general discussion. <i>Faraday Discussions</i> , 2017 , 202, 121-139	3.6	3
15	Solubilizing amino acids and polypeptides in supercritical CO ₂ via reverse micelle formation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 315, 110-116	5.1	3
14	Modifying the Functionality of Starch Films with Natural Polymers. <i>ACS Symposium Series</i> , 2007 , 200-218	0.4	3
13	Dependency of polyelectrolyte complex stoichiometry on the order of addition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004 , 246, 71-79	5.1	3
12	Alkaline oxidative degradation of diphenylmethane structures ? Activation energy and computational analysis of the reaction mechanism. <i>Canadian Journal of Chemistry</i> , 2001 , 79, 1394-1401	0.9	3
11	Feedstocks and analysis: general discussion. <i>Faraday Discussions</i> , 2017 , 202, 497-519	3.6	2
10	A perspective of lignin processing and utilization technologies for composites and plastics with emphasis on technical and market trends. <i>BioResources</i> , 2020 , 16, 2084-2115	1.3	2
9	Opportunities with Wood Dissolved in Ionic Liquids. <i>ACS Symposium Series</i> , 2010 , 343-363	0.4	1
8	On the Interaction of UV Screens with the Lignocellulosic Matrix. <i>Photochemistry and Photobiology</i> , 2007 , 71, 149-156	3.6	1

7	Photostabilizing Milled Wood Lignin with Benzotriazoles and Hindered Nitroxides. <i>Photochemistry and Photobiology</i> , 2007 , 73, 605-610	3.6	1
6	Oxidative Chemistry of Lignin in Supercritical Carbon Dioxide and Expanded Liquids. <i>ACS Symposium Series</i> , 2007 , 311-331	0.4	1
5	Alkaline oxidative degradation of diphenylmethane structures ? Activation energy and computational analysis of the reaction mechanism. <i>Canadian Journal of Chemistry</i> , 2001 , 79, 1394-1401	0.9	1
4	Maintaining the Brightness of Mechanical Pulps with Solid-State Perborate Bleaching. <i>Holzforschung</i> , 1998 , 52, 319-324	2	1
3	Copolymers of starch, a sustainable template for biomedical applications: A review.. <i>Carbohydrate Polymers</i> , 2022 , 278, 118973	10.3	1
2	Pyrolysis Oils from Biomass and Their Upgrading 2012 , 263-280		
1	A Detailed Study of the Alkaline Oxidative Degradation of a Residual Kraft Lignin Model Compound. <i>ACS Symposium Series</i> , 2001 , 130-148	0.4	