

# Richard A Venditti

## List of Publications by Year in descending order

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150  
papers

7,652  
citations

71004

43  
h-index

64407

83  
g-index

152  
all docs

152  
docs citations

152  
times ranked

9263  
citing authors

#	ARTICLE	IF	CITATIONS
1	Valorization of mixed office waste as macro-, micro-, and nano-sized particles in recycled paper containerboards for enhanced performance and improved environmental perception. <i>Resources, Conservation and Recycling</i> , 2022, 180, 106125.	5.3	5
2	Investigating the Experiences, Beliefs, and Career Intentions of Historically Underrepresented Science and Engineering Undergraduates Engaged in an Academic and Internship Program. <i>Sustainability</i> , 2022, 14, 1486.	1.6	9
3	Process Simulation-Based Life Cycle Assessment of Dissolving Pulps. <i>Environmental Science &amp; Technology</i> , 2022, 56, 4578-4586.	4.6	7
4	Microfiber shedding from nonwoven materials including wipes and meltblown nonwovens in air and water environments. <i>Environmental Science and Pollution Research</i> , 2022, 29, 60584-60599.	2.7	6
5	Carbohydrate-based nanostructured catalysts: applications in organic transformations. <i>Materials Today Chemistry</i> , 2022, 24, 100869.	1.7	10
6	High-performance sustainable tissue paper from agricultural residue: a case study on fique fibers from Colombia. <i>Cellulose</i> , 2022, 29, 6907-6924.	2.4	5
7	Carbon Footprint of Bleached Softwood Fluff Pulp: Detailed Process Simulation and Environmental Life Cycle Assessment to Understand Carbon Emissions. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 9029-9040.	3.2	6
8	Effect of plasticizers and polymer blends for processing softwood kraft lignin as carbon fiber precursors. <i>Cellulose</i> , 2021, 28, 1039-1053.	2.4	7
9	Micro- and nanofibrillated cellulose from virgin and recycled fibers: A comparative study of its effects on the properties of hygiene tissue paper. <i>Carbohydrate Polymers</i> , 2021, 254, 117430.	5.1	29
10	Impact of dyes and finishes on the microfibers released on the laundering of cotton knitted fabrics. <i>Environmental Pollution</i> , 2021, 272, 115998.	3.7	37
11	An integrated techno-sustainability assessment (TSA) framework for emerging technologies. <i>Green Chemistry</i> , 2021, 23, 1700-1715.	4.6	23
12	Recent Developments in Polymer Nanocomposite-Based Electrochemical Sensors for Detecting Environmental Pollutants. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 1112-1136.	1.8	128
13	An Interdisciplinary Model to Diversify STEM Participation. <i>Advances in Educational Technologies and Instructional Design Book Series</i> , 2021, , 95-132.	0.2	2
14	Understanding lignin micro- and nanoparticle nucleation and growth in aqueous suspensions by solvent fractionation. <i>Green Chemistry</i> , 2021, 23, 1001-1012.	4.6	47
15	Effect of lignocellulosic fiber composition on the aquatic biodegradation of wood pulps and the isolated cellulose, hemicellulose and lignin components: kinetic modelling of the biodegradation process. <i>Cellulose</i> , 2021, 28, 2863-2877.	2.4	20
16	A general Life Cycle Assessment framework for sustainable bleaching: A case study of peracetic acid bleaching of wood pulp. <i>Journal of Cleaner Production</i> , 2021, 290, 125854.	4.6	12
17	Impact of dyes and finishes on the aquatic biodegradability of cotton textile fibers and microfibers released on laundering clothes: Correlations between enzyme adsorption and activity and biodegradation rates. <i>Marine Pollution Bulletin</i> , 2021, 165, 112030.	2.3	45
18	Study of tobacco-derived proteins in paper coatings. <i>Biopolymers</i> , 2021, 112, e23425.	1.2	1

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19	Modeling a Biorefinery: Converting Pineapple Waste to Bioproducts and Biofuel. <i>Journal of Chemical Education</i> , 2021, 98, 2047-2054.	1.1	6
20	Hemicellulose and starch citrate chitosan foam adsorbents for removal of arsenic and other heavy metals from contaminated water. <i>BioResources</i> , 2021, 16, 5628-5645.	0.5	1
21	Upcycling strategies for old corrugated containerboard to attain high-performance tissue paper: A viable answer to the packaging waste generation dilemma. <i>Resources, Conservation and Recycling</i> , 2021, 175, 105854.	5.3	20
22	Fiber fractionation to understand the effect of mechanical refining on fiber structure and resulting enzymatic digestibility of biomass. <i>Biotechnology and Bioengineering</i> , 2020, 117, 924-932.	1.7	2
23	Techno-economic analysis of hemicellulose extraction from different types of lignocellulosic feedstocks and strategies for cost optimization. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 225-241.	1.9	17
24	Supply Chain of Waste Cotton Recycling and Reuse: A Review. <i>AATCC Journal of Research</i> , 2020, 7, 19-31.	0.3	40
25	Synthesis of Grafted Nanofibrillated Cellulose-Based Hydrogel and Study of Its Thermodynamic, Kinetic, and Electronic Properties. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 8710-8719.	2.4	39
26	Green Synthesis of Magnetic Nanocomposite with Iron Oxide Deposited on Cellulose Nanocrystals with Copper (Fe <sub>3</sub> O <sub>4</sub> @CNC/Cu): Investigation of Catalytic Activity for the Development of a Venlafaxine Electrochemical Sensor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 4219-4228.	1.8	142
27	Carboxymethylation of hemicellulose isolated from poplar ( <i>Populus grandidentata</i> ) and its potential in water-soluble oxygen barrier films. <i>Cellulose</i> , 2020, 27, 3359-3377.	2.4	27
28	Hydrothermal Carbonization of Nanofibrillated Cellulose: A Pioneering Model Study Demonstrating the Effect of Size on Final Material Qualities. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1823-1830.	3.2	8
29	Aerobic biodegradation in freshwater and marine environments of textile microfibers generated in clothes laundering: Effects of cellulose and polyester-based microfibers on the microbiome. <i>Marine Pollution Bulletin</i> , 2020, 151, 110826.	2.3	62
30	Using micro- and nanofibrillated cellulose as a means to reduce weight of paper products: A review. <i>BioResources</i> , 2020, 15, 4553-4590.	0.5	5
31	Using micro- and nanofibrillated cellulose as a means to reduce weight of paper products: A review. <i>BioResources</i> , 2020, 15, 4553-4590.	0.5	33
32	Effects of chemical and morphological structure on biodegradability of fibers, fabrics, and other polymeric materials. <i>BioResources</i> , 2020, 15, 9786-9833.	0.5	24
33	Life cycle carbon footprint analysis of pulp and paper grades in the United States using production-line-based data and integration. <i>BioResources</i> , 2020, 15, 3899-3914.	0.5	17
34	Evaluating sustainable product alternatives by combining life cycle assessment with full-cost accounting: A highway guardrail case study. <i>BioResources</i> , 2020, 15, 9103-9127.	0.5	1
35	Using a Data-Driven Approach to Unveil Greenhouse Gas Emission Intensities of Different Pulp and Paper Products. <i>Procedia CIRP</i> , 2019, 80, 689-692.	1.0	9
36	The influence of lignin content and structure on hemicellulose alkaline extraction for non-wood and hardwood lignocellulosic biomass. <i>Cellulose</i> , 2019, 26, 3219-3230.	2.4	53

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37	Xylooligosaccharides as prebiotics from biomass autohydrolyzate. <i>LWT - Food Science and Technology</i> , 2019, 111, 703-710.	2.5	34
38	Natural Clinoptilolite/KOH: An Efficient Heterogeneous Catalyst for Carboxymethylation of Hemicellulose. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 11680-11688.	1.8	34
39	Cellulose nanocrystal supported palladium as a novel recyclable catalyst for Ullmann coupling reactions. <i>Cellulose</i> , 2019, 26, 5015-5031.	2.4	50
40	Synthesis and Characterization of Thermoresponsive Xylan Networks by Diels-Alder Reaction. <i>ACS Applied Polymer Materials</i> , 2019, 1, 856-866.	2.0	9
41	Microfibers generated from the laundering of cotton, rayon and polyester based fabrics and their aquatic biodegradation. <i>Marine Pollution Bulletin</i> , 2019, 142, 394-407.	2.3	232
42	Hydrophobic resin treatment of hydrothermal autohydrolysate for prebiotic applications. <i>RSC Advances</i> , 2019, 9, 31819-31827.	1.7	7
43	Relationship between human perception of softness and instrument measurements. <i>BioResources</i> , 2019, 14, 780-795.	0.5	25
44	Bi-component carbohydrate and lignin nanoparticle production from bio-refinery lignin: A rapid and green method. <i>BioResources</i> , 2019, 14, 6179-6185.	0.5	8
45	Comparison of wood and non-wood market pulps for tissue paper application. <i>BioResources</i> , 2019, 14, 6781-6810.	0.5	28
46	Evaluation of paper straws versus plastic straws: Development of a methodology for testing and understanding challenges for paper straws. <i>BioResources</i> , 2019, 14, 8345-8363.	0.5	23
47	Techno-economic analysis of various biochemical conversion platforms for biosugar production: Trade-offs of co-producing biopower versus pellets for either a greenfield, repurpose, or co-location siting context. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 390-411.	1.9	6
48	Cover Image, Volume 12, Issue 2. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, i.	1.9	0
49	Cellulose micro- and nanofibrils (CMNF) manufacturing - financial and risk assessment. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 251-264.	1.9	77
50	Organized youth sports and commuting behavior: The environmental impact of decentralized community sport facilities. <i>Transportation Research, Part D: Transport and Environment</i> , 2018, 65, 387-395.	3.2	9
51	Effect of Mechanical Refining Energy on the Enzymatic Digestibility of Lignocellulosic Biomass. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 14648-14655.	1.8	11
52	Starch Extrudates as Sustainable Ingredients in Food and Non-Food Applications. <i>ACS Symposium Series</i> , 2018, , 89-113.	0.5	0
53	Melt Stability of Starch-Filled LDPE during Multi-Pass Extrusion Determined by Melt-Flow and Non-Isothermal Thermogravimetric Investigations. <i>ACS Symposium Series</i> , 2018, , 115-136.	0.5	0
54	Towards thermoplastic hemicellulose: Chemistry and characteristics of poly( $\epsilon$ -caprolactone) grafting onto hemicellulose backbones. <i>Materials and Design</i> , 2018, 153, 298-307.	3.3	43

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55	Effect of delignification on hemicellulose extraction from switchgrass, poplar, and pine and its effect on enzymatic convertibility of cellulose-rich residues. <i>BioResources</i> , 2018, 13, 4946-4963.	0.5	34
56	Effect of isolation method on reinforcing capability of recycled cotton nanomaterials in thermoplastic polymers. <i>Journal of Materials Science</i> , 2017, 52, 4997-5013.	1.7	18
57	Polysaccharides and lignin based hydrogels with potential pharmaceutical use as a drug delivery system produced by a reactive extrusion process. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 564-575.	3.6	69
58	Hemicellulose extraction and characterization for applications in paper coatings and adhesives. <i>Industrial Crops and Products</i> , 2017, 107, 370-377.	2.5	111
59	A Review of Water-Resistant Hemicellulose-Based Materials: Processing and Applications. <i>ChemSusChem</i> , 2017, 10, 305-323.	3.6	146
60	Multi-attribute uncertainty analysis of the life cycle of lignocellulosic feedstock for biofuel production. <i>Biofuels, Bioproducts and Biorefining</i> , 2017, 11, 269-280.	1.9	9
61	Cellulose-Lignin Biodegradable and Flexible UV Protection Film. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 625-631.	3.2	283
62	Dynamic greenhouse gas accounting for cellulosic biofuels: implications of time based methodology decisions. <i>International Journal of Life Cycle Assessment</i> , 2017, 22, 812-826.	2.2	16
63	Optimization of Pilot Scale Mechanical Disk Refining for Improvements in Enzymatic Digestibility of Pretreated Hardwood Lignocellulosics. <i>BioResources</i> , 2017, 12, .	0.5	9
64	Analysis of North Carolina Forest Industry Earnings: Adapting Household-Level Data from the American Community Survey to a Social Accounting Matrix. <i>Journal of Forestry</i> , 2017, , .	0.5	1
65	Estimating the Economic Impacts Generated by Small-Scale Wood Pellet Manufacturing in Western North Carolina. <i>Forest Products Journal</i> , 2017, 67, 196-204.	0.2	5
66	The effect of atmospheric pressure plasma on paper and pulps. <i>BioResources</i> , 2017, 12, 8199-8216.	0.5	2
67	Life Cycle Assessment of lignin extraction in a softwood kraft pulp mill. <i>Nordic Pulp and Paper Research Journal</i> , 2016, 31, 30-40.	0.3	33
68	Engineering physical and chemical properties of softwood kraft lignin by fatty acid substitution. <i>Industrial Crops and Products</i> , 2016, 89, 128-134.	2.5	21
69	Lignin-Based Thermoplastic Materials. <i>ChemSusChem</i> , 2016, 9, 770-783.	3.6	224
70	Use of mechanical refining to improve the production of low-cost sugars from lignocellulosic biomass. <i>Bioresource Technology</i> , 2016, 199, 59-67.	4.8	47
71	Environmental LCA and Financial Analysis to Evaluate the Feasibility of Bio-based Sugar Feedstock Biomass Supply Globally: Part 2. Application of Multi-Criteria Decision-Making Analysis as a Method for Biomass Feedstock Comparisons. <i>BioResources</i> , 2016, 11, .	0.5	7
72	Environmental impacts of bioethanol using the NREL biochemical conversion route: multivariate analysis and single score results. <i>Biofuels, Bioproducts and Biorefining</i> , 2015, 9, 484-500.	1.9	14

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73	The NREL Biochemical and Thermochemical Ethanol Conversion Processes: Financial and Environmental Analysis Comparison. <i>BioResources</i> , 2015, 10, .	0.5	17
74	Enzymatic Hydrolysis of Pretreated Newspaper Having High Lignin Content for Bioethanol Production. <i>BioResources</i> , 2015, 10, .	0.5	13
75	Environmental LCA and Financial Analysis to Evaluate the Feasibility of Bio-based Sugar Feedstock Biomass Supply Globally: Part 1. Supply Chain Analysis. <i>BioResources</i> , 2015, 10, .	0.5	5
76	Melt extrusion of polyethylene nanocomposites reinforced with nanofibrillated cellulose from cotton and wood sources. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	39
77	Environmental life cycle impacts of cellulosic ethanol in the Southern U.S. produced from loblolly pine, eucalyptus, unmanaged hardwoods, forest residues, and switchgrass using a thermochemical conversion pathway. <i>Fuel Processing Technology</i> , 2015, 138, 164-174.	3.7	41
78	UV Cross-Linkable Lignin Thermoplastic Graft Copolymers. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1839-1845.	3.2	44
79	Tailor-made functional surfaces based on cellulose-derived materials. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 5791-5799.	1.7	19
80	Supply Chain Analysis, Delivered Cost, and Life Cycle Assessment of Oil Palm Empty Fruit Bunch Biomass for Green Chemical Production in Malaysia. <i>BioResources</i> , 2014, 9, .	0.5	36
81	Neural network modelling and prediction of the flotation deinking behaviour of industrial paper recycling processes. <i>Nordic Pulp and Paper Research Journal</i> , 2014, 29, 521-532.	0.3	5
82	Conversion of Industrial Paper Sludge to Ethanol: Fractionation of Sludge and Its Impact. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 2096-2113.	1.4	30
83	Comparison of lab, pilot, and industrial scale low consistency mechanical refining for improvements in enzymatic digestibility of pretreated hardwood. <i>Bioresource Technology</i> , 2014, 167, 514-520.	4.8	25
84	Effect of irradiation on the composition and thermal properties of softwood kraft lignin and styrene grafted lignin. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	21
85	Economic evaluation of the conversion of industrial paper sludge to ethanol. <i>Energy Economics</i> , 2014, 44, 281-290.	5.6	27
86	Mechanical and thermal investigation of thermoplastic nanocomposite films fabricated using micro- and nano-sized fillers from recycled cotton T-shirts. <i>Cellulose</i> , 2014, 21, 2743-2755.	2.4	28
87	Autohydrolysis Pretreatment of Mixed Softwood to Produce Value Prior to Combustion. <i>Bioenergy Research</i> , 2013, 6, 1094-1103.	2.2	21
88	Novel Hemicellulose- $\chi$ Chitosan Biosorbent for Water Desalination and Heavy Metal Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1102-1109.	3.2	124
89	Development of an acetylation reaction of switchgrass hemicellulose in ionic liquid without catalyst. <i>Industrial Crops and Products</i> , 2013, 44, 306-314.	2.5	58
90	Enhancement in enzymatic hydrolysis by mechanical refining for pretreated hardwood lignocellulosics. <i>Bioresource Technology</i> , 2013, 147, 353-360.	4.8	67

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91	Impacts of Feedstock Composition on Alcohol Yields and Greenhouse Gas Emissions from the NREL Thermochemical Ethanol Conversion Process. <i>BioResources</i> , 2013, 8, .	0.5	13
92	Novel Screening Technique: Integrated Combinatorial Green Chemistry & Life Cycle Analysis (CGC-LCA). <i>BioResources</i> , 2013, 8, .	0.5	0
93	Ethanol Precipitation of Hetero-Polysaccharide Material from Hardwood by Alkaline Extraction Prior to the Kraft Cooking Process. <i>BioResources</i> , 2013, 8, .	0.5	5
94	Enhanced Absorbent Products Incorporating Cellulose and Its Derivatives: A Review. <i>BioResources</i> , 2013, 8, .	0.5	45
95	Economics, Environmental Impacts, and Supply Chain Analysis of Cellulosic Biomass for Biofuels in the Southern US: Pine, Eucalyptus, Unmanaged Hardwoods, Forest Residues, Switchgrass, and Sweet Sorghum. <i>BioResources</i> , 2013, 9, .	0.5	19
96	Co-production of electricity and ethanol, process economics of value prior combustion. <i>Energy Conversion and Management</i> , 2012, 62, 141-153.	4.4	21
97	CELLULOSE MICROFIBRIL-WATER INTERACTION AS CHARACTERIZED BY ISOTHERMAL THERMOGRAVIMETRIC ANALYSIS AND SCANNING ELECTRON MICROSCOPY. <i>BioResources</i> , 2012, 7, .	0.5	3
98	Economics of cellulosic ethanol production in a thermochemical pathway for softwood, hardwood, corn stover and switchgrass. <i>Fuel Processing Technology</i> , 2012, 94, 113-122.	3.7	71
99	Pickering emulsions stabilized by cellulose nanocrystals grafted with thermo-responsive polymer brushes. <i>Journal of Colloid and Interface Science</i> , 2012, 369, 202-209.	5.0	315
100	Enzymatic Hydrolysis of Recovered Office Printing Paper with Low Enzyme Dosages to Produce Fermentable Sugars. <i>Applied Biochemistry and Biotechnology</i> , 2012, 166, 1121-1136.	1.4	33
101	Carbon Emission Reduction Impacts from Alternative Biofuels*. <i>Forest Products Journal</i> , 2012, 62, 296-304.	0.2	15
102	Comparing Life-Cycle Carbon and Energy Impacts for Biofuel, Wood Product, and Forest Management Alternatives*. <i>Forest Products Journal</i> , 2012, 62, 247-257.	0.2	22
103	Life-Cycle Assessment of Bioethanol from Pine Residues via Indirect Biomass Gasification to Mixed Alcohols*. <i>Forest Products Journal</i> , 2012, 62, 314-325.	0.2	23
104	Sensor systems for high-speed intelligent sorting of waste paper in recycling. <i>Tappi Journal</i> , 2012, 11, 33-39.	0.2	2
105	Combined Application of Extrusion and Irradiation Technologies: A Strategy Oriented for Green and Cost-Effective Chemistry. <i>BioResources</i> , 2012, 8, .	0.5	0
106	Surface Interaction Forces of Cellulose Nanocrystals Grafted with Thermoresponsive Polymer Brushes. <i>Biomacromolecules</i> , 2011, 12, 2788-2796.	2.6	75
107	Sustainable Biofuel Contributions to Carbon Mitigation and Energy Independence. <i>Forests</i> , 2011, 2, 861-874.	0.9	22
108	A comparative study of energy consumption and physical properties of microfibrillated cellulose produced by different processing methods. <i>Cellulose</i> , 2011, 18, 1097-1111.	2.4	469

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109	Incorporation of carboxyl groups into xylan for improved absorbency. <i>Cellulose</i> , 2011, 18, 1033-1041.	2.4	61
110	Crosslinked hemicellulose citrate-chitosan aerogel foams. <i>Carbohydrate Polymers</i> , 2011, 84, 1221-1229.	5.1	102
111	Detoxification of woody hydrolyzates with activated carbon for bioconversion to ethanol by the thermophilic anaerobic bacterium <i>Thermoanaerobacterium saccharolyticum</i> . <i>Biomass and Bioenergy</i> , 2011, 35, 626-636.	2.9	110
112	Water vapor barrier properties of coated and filled microfibrillated cellulose composite films. <i>BioResources</i> , 2011, 6, 4370-4388.	0.5	110
113	The effect of chemical composition on microfibrillar cellulose films from wood pulps: water interactions and physical properties for packaging applications. <i>Cellulose</i> , 2010, 17, 835-848.	2.4	282
114	A comparison of the autohydrolysis and ammonia fiber explosion (AFEX) pretreatments on the subsequent enzymatic hydrolysis of coastal Bermuda grass. <i>Bioresource Technology</i> , 2010, 101, 5449-5458.	4.8	81
115	The effect of chemical composition on microfibrillar cellulose films from wood pulps: Mechanical processing and physical properties. <i>Bioresource Technology</i> , 2010, 101, 5961-5968.	4.8	253
116	Poly( <i>N</i> -isopropylacrylamide) Brushes Grafted from Cellulose Nanocrystals via Surface-Initiated Single-Electron Transfer Living Radical Polymerization. <i>Biomacromolecules</i> , 2010, 11, 2683-2691.	2.6	261
117	Synthesis and Characterization of Starch Citrate-Chitosan Foam with Superior Water and Saline Absorbance Properties. <i>Biomacromolecules</i> , 2010, 11, 1453-1459.	2.6	69
118	Effect of ozone and autohydrolysis pretreatments on enzymatic digestibility of coastal Bermuda grass. <i>BioResources</i> , 2010, 5, 1084-1101.	0.5	46
119	Development of crosslinked starch microcellular foam by solvent exchange and reactive supercritical fluid extrusion. <i>Journal of Applied Polymer Science</i> , 2009, 111, 2917-2929.	1.3	22
120	Biodiesel synthesis via homogeneous Lewis acid-catalyzed transesterification. <i>Fuel</i> , 2009, 88, 560-565.	3.4	182
121	Autohydrolysis pretreatment of Coastal Bermuda grass for increased enzyme hydrolysis. <i>Bioresource Technology</i> , 2009, 100, 6434-6441.	4.8	98
122	Reinforcing Poly( $\mu$ -caprolactone) Nanofibers with Cellulose Nanocrystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 1996-2004.	4.0	235
123	Sugar surfactants in paper recycling. <i>Nordic Pulp and Paper Research Journal</i> , 2009, 24, 107-111.	0.3	2
124	Effect of alkyl ketene dimer reacted starch on the properties of starch microcellular foam using a solvent exchange technique. <i>Carbohydrate Polymers</i> , 2008, 73, 133-142.	5.1	23
125	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> , 2008, 315, 110-116.	2.3	3
126	A colloidal probe microscopy study of cellulose/gypsum interactions. <i>Materials Characterization</i> , 2008, 59, 144-150.	1.9	8



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127	Behavior of paper on a high speed conveyor subjected to air jet impingement: a method for estimating bending stiffness. <i>Journal of Mechanics of Materials and Structures</i> , 2007, 2, 201-219.	0.4	4
128	Surface and pore structure modification of cellulose fibers through cellulase treatment. <i>Journal of Applied Polymer Science</i> , 2007, 103, 3833-3839.	1.3	44
129	Aspects of the preparation of starch microcellular foam particles crosslinked with glutaraldehyde using a solvent exchange technique. <i>Carbohydrate Polymers</i> , 2007, 67, 319-331.	5.1	70
130	Development and characterization of novel starch and alkyl ketene dimer microcellular foam particles. <i>Carbohydrate Polymers</i> , 2007, 69, 262-271.	5.1	14
131	Studies of the heat of vaporization of water associated with cellulose fibers characterized by thermal analysis. <i>Cellulose</i> , 2007, 14, 195-204.	2.4	42
132	Control of tacky deposits on paper machines – A review. <i>Nordic Pulp and Paper Research Journal</i> , 2006, 21, 154-171.	0.3	56
133	Hard to remove water in cellulose fibers characterized by high resolution thermogravimetric analysis - methods development. <i>Cellulose</i> , 2006, 13, 23-30.	2.4	51
134	Chemical force microscopy of cellulosic fibers. <i>Carbohydrate Polymers</i> , 2005, 62, 369-378.	5.1	50
135	Optical sensor for noncontact measurement of lignin content in high-speed moving paper surfaces. <i>IEEE Sensors Journal</i> , 2005, 5, 1132-1139.	2.4	27
136	A Simple Flotation De-Inking Experiment for the Recycling of Paper. <i>Journal of Chemical Education</i> , 2004, 81, 693.	1.1	9
137	Lignin-Based Carbon Fibers. , 2002, , 121-137.		38
138	Removing paraffin-based wax coatings from old corrugated containers using supercritical carbon dioxide. <i>Journal of Applied Polymer Science</i> , 2002, 83, 2699-2704.	1.3	4
139	Novel hollow core fibers prepared from lignin polypropylene blends. <i>Journal of Applied Polymer Science</i> , 2002, 85, 1353-1355.	1.3	62
140	Lignin-based carbon fibers for composite fiber applications. <i>Carbon</i> , 2002, 40, 2913-2920.	5.4	658
141	Supercritical carbon dioxide dewaxing of old corrugated containers. <i>Journal of Applied Polymer Science</i> , 2001, 81, 1107-1114.	1.3	5
142	Melt spinning of thermotropic cellulose derivatives. <i>Journal of Applied Polymer Science</i> , 2000, 77, 418-423.	1.3	16
143	Enzyme Applications in Conventional Kraft Pulping. <i>ACS Symposium Series</i> , 1998, , 55-65.	0.5	0
144	Freeness Improvement of Recycled Fibers Using Enzymes with Refining. <i>ACS Symposium Series</i> , 1998, , 41-54.	0.5	10

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145	A relationship between the glass transition temperature (T <sub>g</sub> ) and fractional conversion for thermosetting systems. <i>Journal of Applied Polymer Science</i> , 1997, 64, 3-14.	1.3	117
146	Free volume after cure vs. fractional conversion for a high-T <sub>g</sub> epoxy/amine thermosetting system. <i>Journal of Applied Polymer Science</i> , 1995, 56, 1207-1220.	1.3	38
147	Anomalous behavior of thermosetting systems after cure vs. chemical conversion: A normalized conversion-temperature-property diagram. <i>Journal of Applied Polymer Science</i> , 1995, 56, 1687-1705.	1.3	17
148	Glass transition temperature (T <sub>g</sub> ) versus fractional conversion for a linear thermosetting polyamic acid ester-polyimide system. <i>Journal of Applied Polymer Science</i> , 1994, 53, 455-461.	1.3	7
149	Isothermal physical aging of poly(methyl methacrylate): Localization of perturbations in thermomechanical properties. <i>Journal of Applied Polymer Science</i> , 1992, 45, 501-506.	1.3	23
150	Physical aging deep in the glassy state of a fully cured polyimide. <i>Journal of Applied Polymer Science</i> , 1992, 45, 1501-1516.	1.3	19