This article was downloaded by:

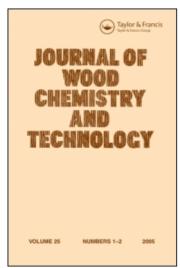
On: 25 January 2011

Access details: Access Details: Free Access

Publisher Taylor & Francis

Informa Ltd Registered in England and Wales Registered Number: 1072954 Registered office: Mortimer House, 37-

41 Mortimer Street, London W1T 3JH, UK



# Journal of Wood Chemistry and Technology

Publication details, including instructions for authors and subscription information: http://www.informaworld.com/smpp/title~content=t713597282

Subject Index to Volume 20

To cite this Article (2000) 'Subject Index to Volume 20', Journal of Wood Chemistry and Technology, 20:4,457-461 To link to this Article: DOI: 10.1080/02773810009351895

URL: http://dx.doi.org/10.1080/02773810009351895

# PLEASE SCROLL DOWN FOR ARTICLE

Full terms and conditions of use: http://www.informaworld.com/terms-and-conditions-of-access.pdf

This article may be used for research, teaching and private study purposes. Any substantial or systematic reproduction, re-distribution, re-selling, loan or sub-licensing, systematic supply or distribution in any form to anyone is expressly forbidden.

The publisher does not give any warranty express or implied or make any representation that the contents will be complete or accurate or up to date. The accuracy of any instructions, formulae and drug doses should be independently verified with primary sources. The publisher shall not be liable for any loss, actions, claims, proceedings, demand or costs or damages whatsoever or howsoever caused arising directly or indirectly in connection with or arising out of the use of this material.

## **SUBJECT INDEX TO VOLUME 20**

A

Anionic groups, distribution in thermomechanical pulp suspensions, 71-92

Anthraquinone-type components, in trees, 225–242

Aqueous gel permeation chromatography, for technical lignins, 265–276

В

Benzoquinones, heteropolyacidcatalyzed oxidation of lignin and lignin models to, 19-41

Birch wood, charge density of lignin samples from kraft cooking of, 337–356

Bleaching

of high-yield pulp by sulfur compounds, 1-17

ozone, the role of oxalic acid in kinetics for an XO-kraft pulp, 147–167

by peroxyacetic acid, carbohydrate reactions in, 43-59 C

Capillary zone electrophoresis, for evaluating lignin mobility distributions, 113–132

Carbohydrates

mechanisms of oxidative degradation during oxygen delignification, 375–394

reactions, in peroxyacetic acid bleaching, 43–59

Carboxymethyl cellulose, from waste lignocellulosic pulps produced by a fast soda/anthraquinone process, 185–204

Charge density, of lignin samples from kraft cooking of birch wood, 337–356

Chemithermomechanical pulp, propionylated spruce, 205–224

Color appearance, from chemical tests, for differentiation of jack pine from other conifers, 61-70

Conifers, differentiation of jack pine by the analysis of color appearance from chemical tests, 61–70

D

Dealkylation, of a nonphenolic lignin model, 357–373

Delignification, by oxygen, mechanisms of oxidative degradation of carbohydrates during, 375–394

Dimensional stability, of silicateacetylated and -propionylated wood composites, 441-453

E

Enzyme treatments, of the dissolved and colloidal substances in mill white water and the effects on the resulting paper properties, 321-335

F

Fagus sylvatica, formic acid-peroxyformic acid pulping of, 395-413

Fe(TSPc)-catalyzed benzylic oxidation, of nonphenolic lignin model, 357-373

Flame resistance, of silicateacetylated and -propionylated wood composites, 441–453

Formic acid-peroxyformic acid pulping, of Fagus sylvatica, 395-413

Fourier transform infrared monitoring, of chemical changes in softwood during heating, 307–320 G

Gel permeation chromatography, aqueous, for technical lignins, 265–276

Glycidyl methacrylate, effect of chemical modification of rice husk with on the mechanical and physical properties of rice husk-polystyrene composites, 93–109

Glycol mercaptoesters, reaction with model quinones, 1-17

Н

Heating, Fourier transform infrared monitoring of chemical changes in softwood during, 307–320

Heteropolyacid-catalyzed oxidation, of lignin and lignin models to benzoquinones, 19-41

High-yield pulp, bleaching and photostabilization by sulfur compounds, 1–17

p-Hydroxycinnamyl alcohols, reaction with transition metal salts, 243–264

J

Jack pine, differentiation from other conifers by the analysis of color appearance from chemical tests, 61-70

## K

Kraft lignins from cooking of birch wood, charge density of, 337–356 intrinsic metal-binding capacity of,

133-145

## L

Laccase<sub>HBT</sub> and laccase<sub>NHAA</sub> treatments, the effects of oxidative alkaline extraction stages after, 169–184

Lignin mobility distributions, evaluation with capillary zone electrophoresis, 113-132

## Lignins

kraft, intrinsic metal-binding capacity of, 133–145

from kraft cooking of birch wood, charge density of, 337–356

and lignin models, heteropolyacidcatalyzed oxidation to benzoquinones, 19-41

nonphenolic model, Fe(TSPc)catalyzed benzylic oxidation and subsequent dealkylation of, 357-373

pK<sub>a</sub> values of guaiacyl and syringyl phenols related to, 277–305 technical, aqueous gel permeation chromatographic methods for, 265–276

#### M

Metal-binding capacity, intrinsic, of kraft lignins, 133–145

Mill white water, enzyme treatments of the dissolved and colloidal substances in and the effects on the resulting paper properties, 321-335

#### N

NMR. See Nuclear magnetic resonance

Nonphenolic lignin model, Fe(TSPc)catalyzed benzylic oxidation and subsequent dealkylation of, 357–373

Nuclear magnetic resonance (NMR) for characterization of improved dehydropolymers, 243–264 of residual lignins, 169–184

#### O

Oxalic acid, role in the ozone bleaching kinetics of an XO-kraft pulp, 147–167

#### Oxidation

Fe(TSPc) catalyzed benzylic, of a nonphenolic lignin model, 357–373

heteropolyacid catalyzed, of lignin and lignin models to benzoquinones, 19-41

Oxidative alkaline extraction stages, effects after laccase<sub>HBT</sub> and laccase<sub>NHAA</sub> treatments, 169–184

Oxidative degradation, of carbohydrates during oxygen delignification, 375–394 Oxygen delignification, mechanisms of oxidative degradation of carbohydrates during, 375–394

Ozone bleaching kinetics, of an XO-kraft pulp, role of oxalic acid in, 147-167

### P

Paper properties, effects of enzyme treatments of the dissolved and colloidal substances in mill white water on, 321–335

Peroxyacetic acid bleaching, carbohydrate reactions in, 43–59

Phenols related to lignin, guaiacyl and syringyl,  $pK_a$  values of, 277–305

Photostabilization, of high-yield pulp by sulfur compounds, 1–17

pK<sub>a</sub> values, of guaiacyl and syringyl phenols related to lignin, 277-305

Polystyrene, the effect of chemical modification of rice husk with glycidyl methacrylate on the mechanical and physical properties of composites with rice husk, 93–109

Propionylated spruce chemithermomechanical pulp, mechanical, optical, and aging properties of, 205-224

#### Pulping

catalysts, in trees, 225–242 formic acid-peroxyformic acid, of *Fagus sylvatica*, 395–413

#### Pulps

chemithermomechanical, chemical modification of, 205-224

high yield, bleaching and photostabilization by sulfur compounds, 1-17

thermomechanical, distribution of anionic groups in suspensions of, 71–92

waste lignocellulosic, produced by a fast soda/anthraquinone process, carboxymethyl cellulose from, 185-204

XO-kraft, role of oxalic acid in ozone bleaching kinetics of, 147–167

## Q

Quinones, reaction of glycol mercaptoesters with, 1-17

#### R

Residual lignins, NMR of, 169–184 Rice husk-polystyrene composites, the effect of chemical modification of rice husk with glycidyl methacrylate on the mechanical and physical properties of, 93–109

## S

Silicate-acetylated and -propionylated wood composites, dimensional stability and flame resistance of, 441-453

Soda/anthraquinone process, fast, carboxymethyl cellulose from waste lignocellulosic pulps produced by, 185–204 Softwood, Fourier transform infrared monitoring of chemical changes during heating of, 307–320

Southern pine lumber, knot, heartwood, and sapwood extractives related to volatile organic compounds from drying of, 415–439

Sulfur compounds, for bleaching and photostabilization of high-yield pulp, 1–17

T

Thermomechanical pulp suspensions, distribution of anionic groups in, 71–92

Transition metal salts, reaction of *p*-hydroxycinnamyl alcohols with, 243–264

V

Volatile organic compounds, from drying southern pine lumber, knot, heartwood, and sapwood extractives related to, 415–439

W

Waste lignocellulosic pulps, produced by a fast soda/anthraquinone process, carboxymethyl cellulose from, 185–204

Wood composites, silicate acetylated and propionylated, dimensional stability and flame resistance of, 441–453

X

XO-kraft pulp, the role of oxalic acid in the ozone bleaching kinetics of, 147-167