et Mendeley Wh	at is Mendeley?	Papers Groups	Papers	Search	Ŷ	
Yellowing a by Uwe Müller, Manfred F	nd IR-cha	nges of spruce woo anninger, Melanie Steiner, Harald Zöbl	od as result of U	UV-irradiatior	1.	
Materials Science > Woo	d Papers			Save reference to libra	ary Share	
erview	Journal of pho	tochemistry and photobiology B Biology	/ (2003)	Related Full-Text F	Papers for Free	
Related research	Volume: 69, Is: PubMed: 126	sue: 2, Pages: 97-105 33982	Sign up to download and organize them across al your devices with Mendeley, for free.			
	Available from or Find this Abstract	www.ncbi.nlm.nih.gov paper at:	IR-change and colour changes of long-oil air drying alkyd paints as a result of UV irradiation Suzana M Cakić, Ivan S Ristić, Jašo M Vladislav, Jakov V Stamenković, Dragan T Stojiljković in Progress in Organic Coatings (2011) Save PDE to library. 3 readel			
	The yellowing and IR-changes of spruce wood as a result of UV-irradiation were studied using two different types of xenon lamps (lambda>300 nm; l(o)=50 mW cm(-2) and lambda>280 nm; l(o)=17.5 mW cm(-2)). Changes in the IR spectra as well as the yellowing of the irradiated wood surfaces show the influence of UV light on the wood modules. The UV-irradiation (72 h; lambda>300 nm; l(o)=50 mW cm(-2))				Fractionation of processed spruce wood obtainer in the production of ethanol C Johansson, K Lundquist, H Theliander in Bioresources (2009)	
	with increasing irradiation time. Our results show that the photoyellowing (UV-Vis detection) correlates very well with lignin degradation (IR detection). This result is in agreement with the quinone formation as the chromophoric reaction product of lignin decay. The degradation, yellowing, and oxidation kinetics differed only little using different light sources. The absorbed light intensity, which depends on wavelength, the intensity distribution of the light source and the absorption spectrum of lignin, influenced the degradation rate. Under the current experimental conditions, the absorption spectrum of lignin was the most important factor. Therefore, irradiation with lambda>280 nm is useful for rapidly monitoring the UV-degradation of wood			Mendeley is Free. Sign up and discover more papers in Materials Science. Mendeley is a paper search and productivity tool. Sign up today, find more relevant papers and organise your research all in one place.		
	Related re	search				
	IR-change a Dan Rosu, Lilia <i>Stability (</i> 2009	nd yellowing of polyurethane as a ana Rosu, Constantin N Cascaval in <i>Poly</i>)	First name	Ŷ		
	Save refere	nce to library · Related research	1 reader	Last name	Ŷ	
	The cellulose content of spruce wood P Klason in Sven Papperstid (1921)			E-mail address	V Sign Up	
	Save refere	nce to library · Related research	1 reader	or sign in with		
	IR-change and colour changes of long-oil air drying alkyd paints as a result of UV irradiation Suzana M Cakić, Ivan S Ristić, Jašo M Vladislav, Jakov V Stamenković, Dragan T			Roadorshin Statist	ice	
	Stojiljković in Progress in Organic Coatings (2011) Save PDF to library Related research 3 readers			Readership statistics are being calculated.		
	Measuring of C M Altaner, E Science and To	ompression wood severity in sprud N Tokareva, J C T Wong, A I Hapca, J P schnology (2009)	<mark>ce</mark> McLean, M C Jarvis in <i>Wood</i>			

11/1/11	Yellowing and IR-changes of spruce wood as result of UV-irradiation. I Mendeley				
	in Norway spruce yellowing in acidic soils O Devêvre, J Garbaye, B Botton in <i>Mycological Research (1996)</i>				
	Save reference to library · Related research 1 reader				
	More related papers				
	Cite this document (BETA)				
	APA BibTeX Cell Chicago Harvard MLA Nature Science				
	Choose a citation style from the tabs above.				

What is Mendeley?	About Us	Support	Useful Links	Download and Upgrade	
Features Overview	Upcoming Events & Webinars	Videos & Tutorials	Blog	Download Mendeley Free	
Reference Manager	Become an Advisor	Citation Styles	Install Web Importer	Dominous menueley Pree	
How We Help	Awards & Reviews	FAQ	University Endorsements	iPhone & iPad App	
Our Users	Our Team	Feedback	Development	Premium Packages	
Compare	Jobs	Release Notes	Developers		
	Contact Us	Contact Support	Mendeley API		

Copyright © 2011 Mendeley Ltd. All rights reserved. Terms of Use Privacy Policy Copyright

Find us on