



VODOODBOJNI POLIURETANSKI PREMAZ ZA ZAŠČITO LESA IZ NARAVNEGA OBNOVLJIVEGA VIRA – LESA

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Odlični v znanosti 2016

BIOTEHNIKA

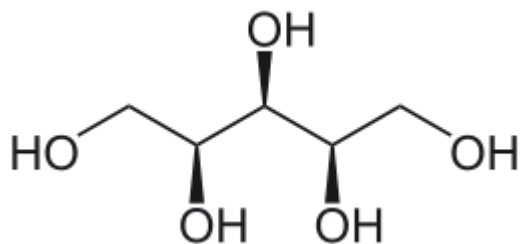
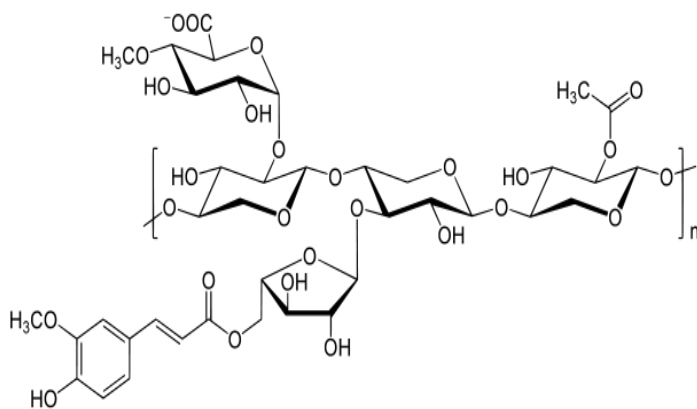


ARRS

JAVNA AGENCIJA ZA RAZISKOVALNO DEJAVNOST
REPUBLIKE SLOVENIJE

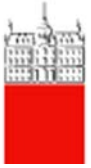


Ksilitol – umetno sladilo
industrijsko pridobivajo
večinoma iz ksilana –
hemiceluloze – iz lesa
listavcev



Univerza v Ljubljani





Obnovljiva
surovina



Enzymatic
hydrolysis

KONCEPT BIORAFINERIJ



Bio-energija
Bio-materiali

Kemikalije

Hrana in
krmila

END PRODUCTS



Liquefied-Wood-Based Polyurethane–Nanosilica Hybrid Coatings and Hydrophobization by Self-Assembled Monolayers of Orthotrichlorosilane (OTS)

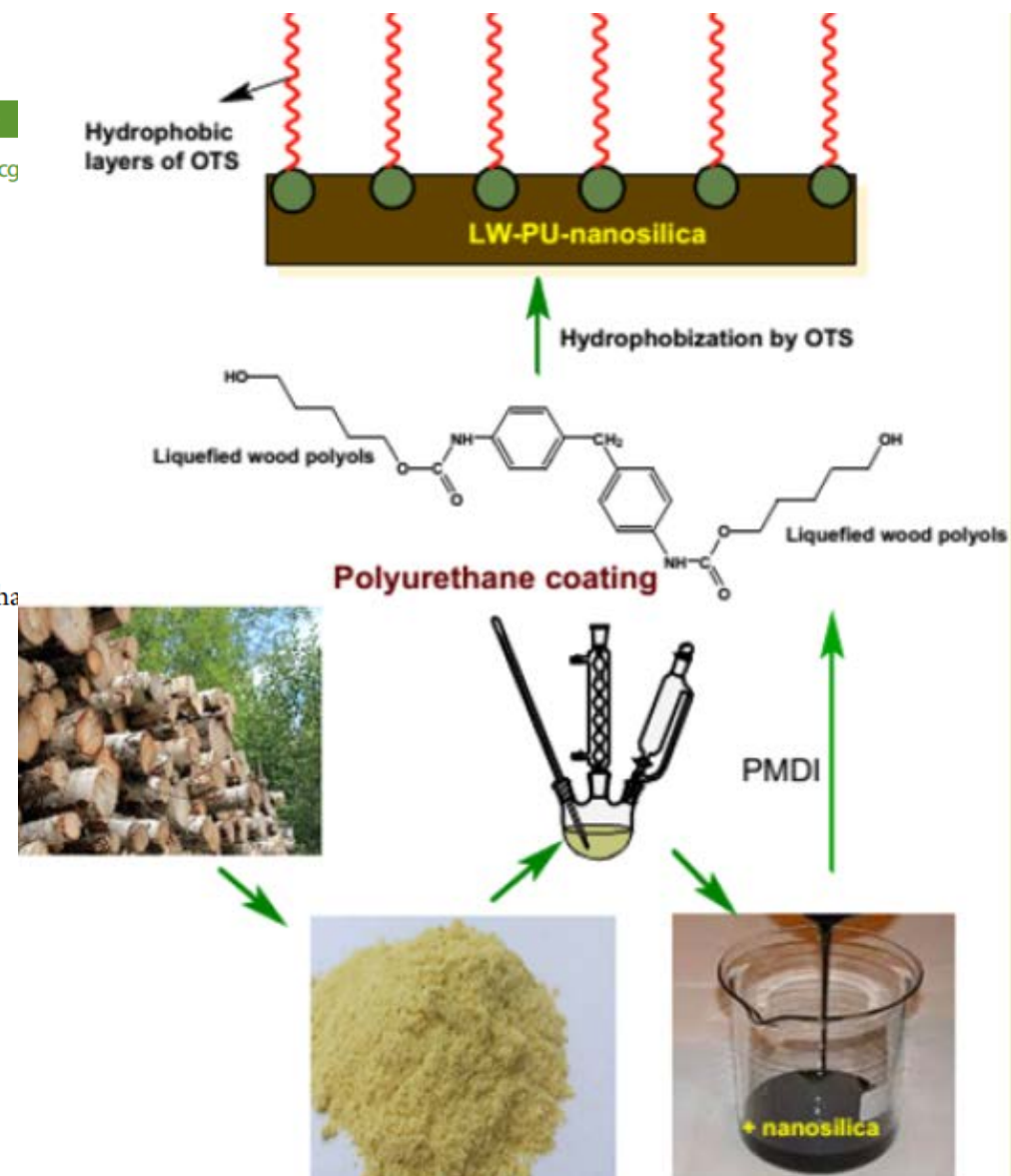
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[†]Czech Technical University in Prague, Faculty of Civil Engineering, Department of Building Structures, Thákurova 7, 166 29 Praha 6, Czech Republic

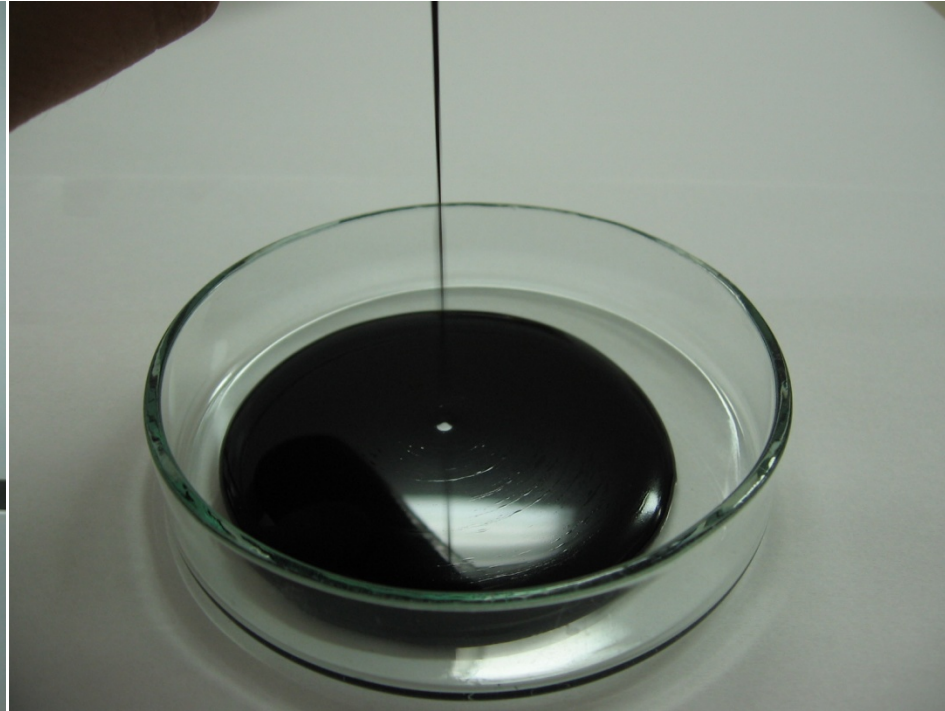
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[§]Slovenian National Building and Civil Engineering Institute, Dimičeva 12, SI-1000 Ljubljana, Slovenia

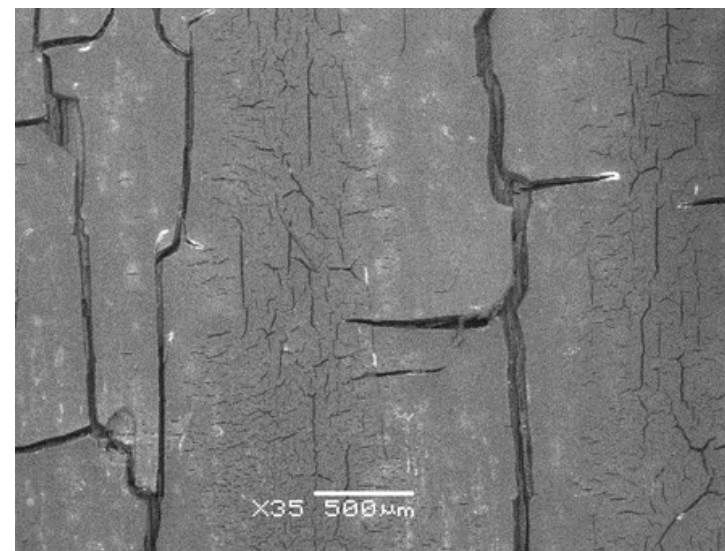
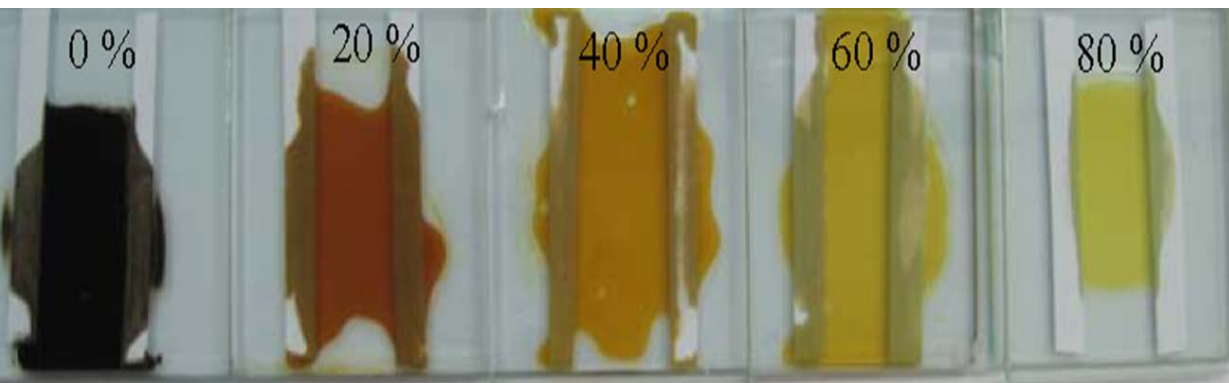
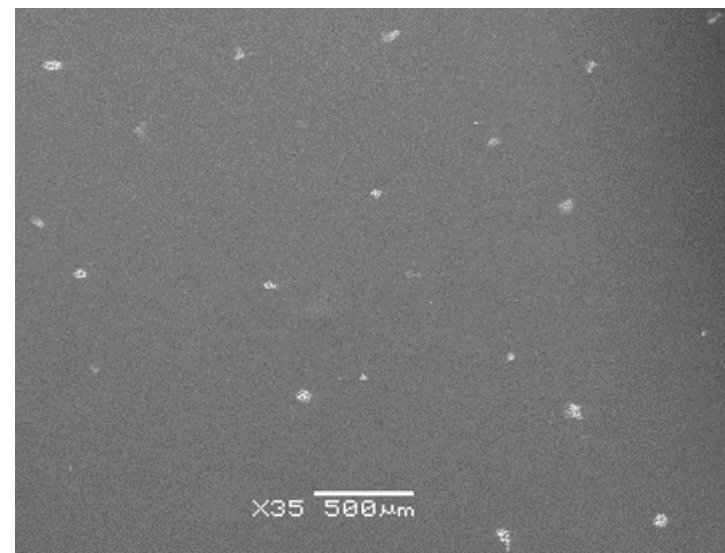
^{||}University Centre for Energy Efficient Buildings of Technical University in Prague, Třinecká 1024, 273 43 Bušehrad, Czech Republic



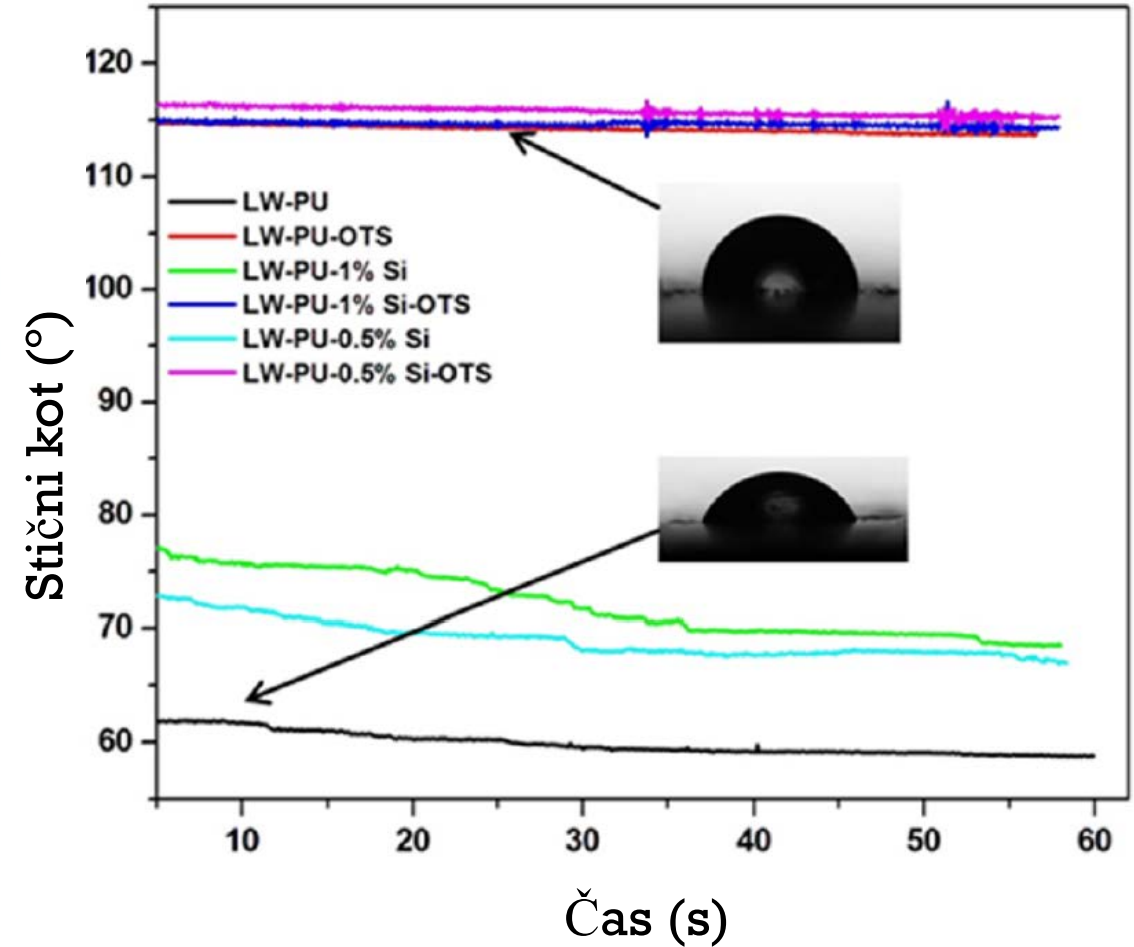
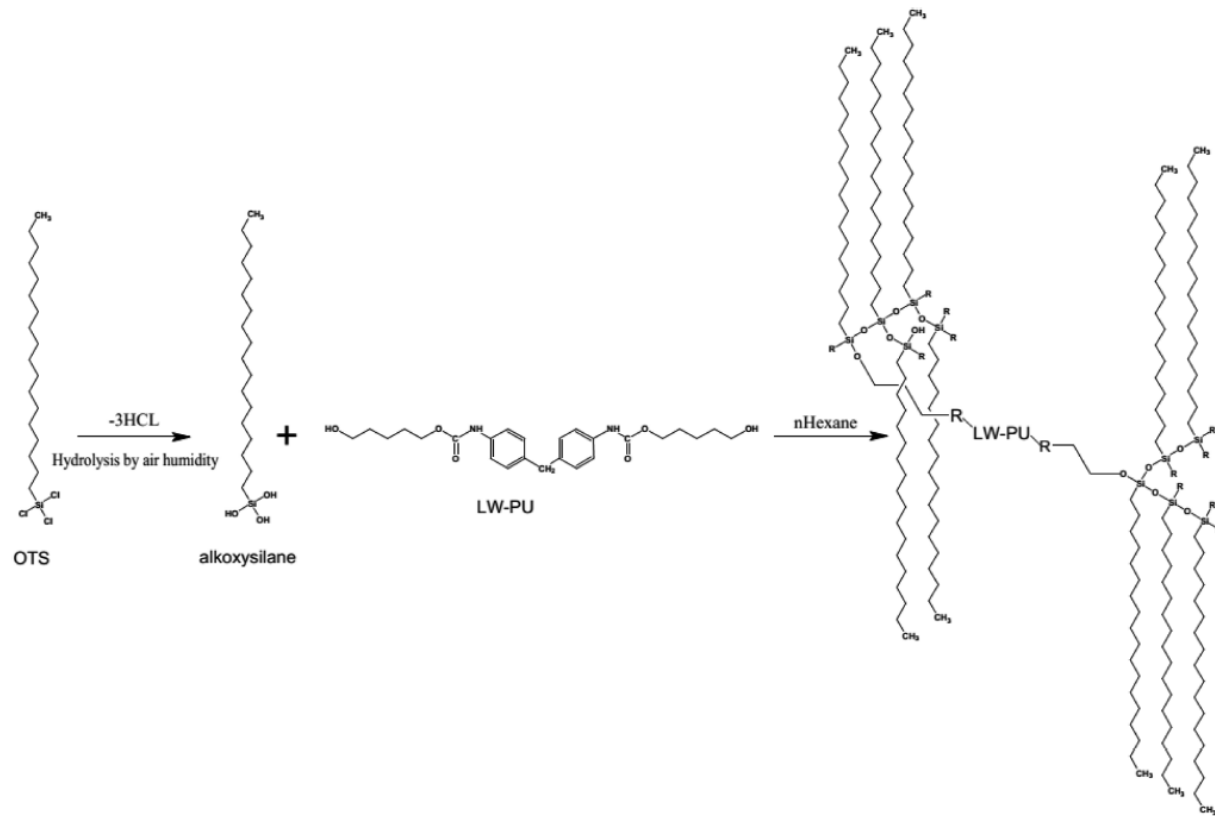
UTEKOČINJANJE LESA



Les, glicerol, žveplova(VI) kislina, $T=150^{\circ}\text{C}$



IZBOLJŠANJE VODOODBOJNOSTI Z DODATKOM NANO SILICIJEVEGA DIOKSIDA IN OKTADECILTRIKLOROSILANA (OTS)



IN ZAKAJ BI SPLOH VSE TO POČELI ?



**HVALA ARRS,
VSEM
SODELAVCEM
IN ŠE POSEBEJ
DR. ANUJU
KUMARJU !**

