

Characterization of organosolv lignins and their application in the preparation of aerogels

Jõul, Piia; Ho, Thi Thuy Tran; Kallavus, Urve; Konist, Alar; Leiman, Kristiina; Salm, Olivia-Stella; Kulp, Maria; Koel, Mihkel; Lukk, Tiit *Materials* 2022 / art. 2861 <https://doi.org/10.3390/ma15082861> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Chloromethylation of lignin as a route to functional material with catalytic properties in cross-coupling and click reactions

Mohan, Mahendra Kothottil; Silenko, Oleg; Krasnou, Illia; Volobujeva, Olga; Kulp, Maria; Ošeka, Maksim; Lukk, Tiit; Karpichev, Yevgen *ChemSusChem* 2024 / art. e202301588 <https://doi.org/10.1002/cssc.202301588> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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Direct conversion of lignin into antibacterial carbon nanomaterials without organofunctionalization

Mikhrallieva, Albina; Bragina, Olga; Zaitsev, Volodymyr; Karpichev, Yevgen *Baltic Polymer Symposium 2025 : 23d International Scientific Conference BPS 2025* "Baltic Polymer Symposium 2025" : Book of abstracts 2025 / p. 52 <http://woodval.taltech.ee/wp-content/uploads/2025/07/BPS2025-Book-of-abstracts.pdf>

Efficient lignin fractionation from Scots pine (*Pinus sylvestris*) using ammonium-based protic ionic liquid : process optimization and characterization of recovered lignin

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Enhanced bioremediation of pulp effluents through improved enzymatic treatment strategies : a greener approach

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Expression and purification of bacterial dye-decolorizing peroxidases using *Escherichia coli*

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Green non-destructive approach for quantitation of hydroxyl groups in lignin using atr-ftir spectroscopy and chemometric methods

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Lignin and outer cell wall removal from aspen pulp fibres by using supercritical CO₂ extraction

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Preparation and characterization of lignin-derived carbon aerogels

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