

A novel method to enhance the mechanical properties of polyacrylonitrile nanofiber mats: an experimental and numerical investigation

Sanchaniya, Jaymin Vrajla; Lasenko, Inga; Vijayan, Vishnu; Smogor, Hilary; Gobins, Valters; Kobeissi, Alaa; **Goljandin, Dmitri** Polymers 2024 / art. 992 <https://doi.org/10.3390/polym16070992> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Circular production, designing, and mechanical testing of polypropylene-based reinforced composite materials : statistical analysis for potential automotive and nuclear applications

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Effect of protein surface hydrophobicity and surface amines on soy adhesive strength

Kallakas, Heikko; Plaza, Nayomi; Crooks, Casey; Turner, Derek; Gargulak, Mathew; Arvanitis, Matthew A.; Frihart, Charles R.; Hunt, Christopher G. Polymers 2024 / art. 202 <https://doi.org/10.3390/polym16020202> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Khan, Sharib; Rauber, Daniel; Shanmugam, Sabarathinam; Kay, Christopher W. M.; **Konist, Alar**; Kikas, Timo Polymers 2022 / art. 4637, 13 p. : ill <https://doi.org/10.3390/polym14214637> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electrospinning polyvinyl alcohol reinforced with chitin: The effect of the degree of acetylation

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Ferrocene introduced into 5-methylresorcinol-based organic aerogels

Erkhova, Ludmila V.; Presniakov, Igor A.; Afanasov, Michail I.; Lemenovskiy, Dmitry A.; Yu, Haojie; Wang, Li; **Danilson, Mati**; **Koel, Mihkel** Polymers 2020 / art. 1582 ; 12 p. : ill <https://doi.org/10.3390/polym12071582> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A finite element method for determining the mechanical properties of electrospun nanofibrous mats

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Impact of alkali and silane treatment on hemp/PLA composites' performance : from micro to macro scale

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Influence of protic ionic liquid-based flame retardant on the flammability and water sorption of alkalized hemp fiber-reinforced PLA composites

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Investigation of efficient alkali treatment and the effect of flame retardant on the mechanical and fire performance of frost-retted hemp fiber reinforced PLA

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Molecularly imprinted polymer-based electrochemical sensor for the detection of azoxystrobin in aqueous media

Nguyen, Vu Bao Chau; **Reut, Jekaterina**; Rappich, Jörg; Hinrichs, Karsten; **Sõritski, Vitali** Polymers 2024 / art. 1394 <https://doi.org/10.3390/polym16101394> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Preparation of thermoplastic cellulose esters in [mTBNH][OAC] ionic liquid by transesterification reaction

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Synthesis and investigation of thermo-induced gelation of partially cross-linked poly-2-isopropyl-2-oxazoline in aqueous media

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Tensile and surface wettability properties of the solvent cast cellulose fatty acid ester films

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The effect of Zinc Oxide on DLP hybrid composite manufacturability and mechanical-chemical resistance

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