



## Projekta Izp-2018/1-0136 rezultāti

### Koksni imitējošie biokompozīti

Oriģināli zinātniskie raksti, kas publicēti zinātniskos žurnālos, rakstu krājumos vai konferenču rakstu krājumos, kuri ir indeksēti datu bāzēs Web of Science Core Collection, SCOPUS vai ERIH PLUS

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2. Platnieks, O.; Sereda, A.; Gaidukovs, S.; Thakur, V. K.; Barkane, A.; Gaidukova, G.; Filipova, I.; Ogurcovs, A.; Fridrihsone, V. Adding value to poly (butylene succinate) and nanofibrillated cellulose-based sustainable nanocomposites by applying masterbatch process. - Ind. Crops Prod., 2021, 169, <https://doi.org/10.1016/j.indcrop.2021.113669>
3. Platnieks, O.; Barkane, A.; Ijudina, N.; Gaidukova, G.; Thakur, V. K.; Gaidukovs, S. Sustainable tetra pak recycled cellulose / Poly(Butylene succinate) based woody-like composites for a circular economy. - J. Clean. Prod., 2020, 270, <https://doi.org/10.1016/j.jclepro.2020.122321>
4. Nogales, A.; Gutiérrez-Fernández, E.; García-Gutiérrez, M. C.; Ezquerra, T. A.; Rebollar, E.; Šics, I.; Malfois, M.; Gaidukovs, S.; Gē Cis, E.; Celms, K.; Bakradze, G. Structure Development in Polymers during Fused Filament Fabrication (FFF): An in Situ Small- And Wide-Angle X-ray Scattering Study Using Synchrotron Radiation. – Macromolecules, 2019, 52 (24), 9715-9723, <https://doi.org/10.1021/acs.macromol.9b01620>
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6. Platnieks, O.; Gaidukovs, S.; Neibolts, N.; Barkane, A.; Gaidukova, G.; Thakur, V. K. Poly(butylene succinate) and graphene nanoplatelet-based sustainable functional nanocomposite materials: structure-properties relationship. - Mater. Today Chem., 2020, 18, <https://doi.org/10.1016/j.mtchem.2020.100351>
7. Platnieks, O.; Gaidukovs, S.; Barkane, A.; Gaidukova, G.; Grase, L.; Thakur, V. K.; Filipova, I.; Fridrihsone, V.; Skute, M.; Laka, M. Highly loaded cellulose/poly (butylene succinate) sustainable composites for woody-like advanced materials application. – Molecules, 2020, 25 (1), <https://doi.org/10.3390/molecules25010121>



8. Platnieks, O.; Gaidukovs, S.; Barkane, A.; Sereda, A.; Gaidukova, G.; Grase, L.; Thakur, V. K.; Filipova, I.; Fridrihsone, V.; Skute, M.; Laka, M. Bio-based poly(butylene succinate)/microcrystalline cellulose/nanofibrillated cellulose-based sustainable polymer composites: Thermo-mechanical and biodegradation studies. - Polym., 2020, 12 (7), 1-20, <https://doi.org/10.3390/polym12071472>

*Recenzētas zinātniskās monogrāfijas*

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