

**A total conformational analysis of diastereomeric esters and calculation of their conformational shielding models**  
**Tamp, Sven; Danilas, Kady; Kreen, Malle; Vares, Lauri; Kiirend, Ene; Vija, Sirje; Pehk, Tõnis; Parve, Omar; Metsala, Andrus**  
Journal of molecular structure : THEOCHEM 2008 / 1/3, p. 84-91 : ill  
[https://www.researchgate.net/publication/244272489\\_A\\_total\\_conformational\\_analysis\\_of\\_diastereomeric\\_esters\\_and\\_calculation\\_of\\_their\\_conformational\\_shielding\\_models](https://www.researchgate.net/publication/244272489_A_total_conformational_analysis_of_diastereomeric_esters_and_calculation_of_their_conformational_shielding_models)

**An NMR and MD modeling insight into nucleation of 1,2-alkanediols : selective crystallization of lipase-catalytically resolved enantiomers from the reaction mixtures**  
**Parve, Omar; Reile, Indrek; Parve, Jaan; Kasvandik, Sergio; Kudrjašova, Marina; Tamp, Sven; Metsala, Andrus; Villo, Ly; Pehk, Tõnis; Jarvet, Jüri; Vares, Lauri** Journal of organic chemistry 2013 / p. 12795-12801 : ill <https://doi.org/10.1021/jo402189e> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#) [Journal metrics at WOS](#)

**Bis-spirocyclic diol monomers and polyurethanes derived from citric acid : synthesis, properties, electrospinnability, and evaluation of chemical recyclability**  
**Liblikas, Ilme; Bonjour, Olivier; Savest, Natalja; Krumme, Andres; Jannasch, Patric; Vares, Lauri** Chemical engineering journal 2025 / art. 163525 <https://doi.org/10.1016/j.cej.2025.163525>

**Catalyzed resolution and simultaneous selective crystallization**  
**Parve, Jaan; Vares, Lauri; Reile, Indrek; Pehk, Tõnis; Villo, Ly; Parve, Omar** Comprehensive organic chemistry experiments for the laboratory classroom 2017 / p. 931-934 [http://www.ester.ee/record=b4666270\\*est](http://www.ester.ee/record=b4666270*est)

**Enzymatic synthesis and polymerization of isosorbide-based monomethacrylates for high-Tg plastics**  
**Matt, Livia; Parve, Jaan; Parve, Omar; Pehk, Tõnis; Liblikas, Ilme; Vares, Lauri; Jannasch, Patric** ACS sustainable chemistry & engineering 2018 / p. 17382-17390 <https://doi.org/10.1021/acssuschemeng.8b05074> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Isosorbide-based polymers as alternatives to conventional plastics**  
**Matt, Livia; Laanesoo, Siim; Bonjour, Olivier; Parve, Jaan; Parve, Omar; Pehk, Tõnis; Pham, Thanh Huong; Liblikas, Ilme; Jannasch, Patric; Vares, Lauri** Abstract from Baltic Polymer Symposium 2022, Tallinn, Estonia 2022 <https://taltech.ee/en/BPS2022>

**Lipase-catalyzed stereoresolution of long-chain 1,2-alkanediols: a screening of preferable reaction conditions**  
**Parve, Jaan; Reile, Indrek; Aid, Tiina; Kudrjašova, Marina; Müürisepp, Aleksander-Mati; Vallikivi, Imre; Villo, Ly; Aav, Riina; Pehk, Tõnis; Vares, Lauri; Parve, Omar** Journal of molecular catalysis B : enzymatic 2015 / p. 60-69 : ill  
<https://doi.org/10.1016/j.molcatb.2015.03.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**O-alkylation of hydroxycarboxylic acids with (-)-menthyl bromoacetate affords bridged diastereomeric esters**  
**Veskilt, Eva; Tamp, Sven; Parve, Jaan; Vares, Lauri; Pehk, Tõnis; Villo, Ly; Parve, Omar** BOS 2012 : International Conference on Organic Synthesis : July 1-4, 2012, Tallinn, Estonia : program and abstracts 2012 / p. 194

**Poly(alkanoyl isosorbide methacrylate)s : from amorphous to semicrystalline and liquid crystalline biobased materials**  
**Laanesoo, Siim; Bonjour, Olivier; Parve, Jaan; Parve, Omar; Matt, Livia; Vares, Lauri; Jannasch, Patric** Biomacromolecules 2021 / p. 640-648 <https://doi.org/10.1021/acs.biomac.0c01474> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Poly(alkanoyl isosorbide methacrylate)s : from amorphous to semicrystalline and liquid crystalline biobased materials**  
**Laanesoo, Siim; Bonjour, Olivier; Parve, Jaan; Matt, Livia; Parve, Omar; Vares, Lauri; Jannasch, Patric** EPF European Polymer Congress 26 June – 1 July 2022 : book of abstracts 2022 / p. 616 : ill [https://webadmin.epf2022.org/Amca-Epf2021/media/content/docs/Book\\_of\\_abstracts\\_EPF2022.pdf](https://webadmin.epf2022.org/Amca-Epf2021/media/content/docs/Book_of_abstracts_EPF2022.pdf)

**Preparation of thermoplastic cellulose esters in [mTBNH][OAC] ionic liquid by transesterification reaction**  
**Tarasova, Elvira; Savale, Nutan Bharat; Krasnou, Illia; Kudrjašova, Marina; Rjabovs, Vitalijs; Reile, Indrek; Vares, Lauri; Kallakas, Heikko; Kers, Jaan; Krumme, Andres** Polymers 2023 / art. 3979 <https://doi.org/10.3390/polym15193979> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Scalable lipase-catalyzed synthesis of (R)-4-(Acyloxy)pentanoic acids from racemic  $\gamma$ -valerolactone**  
**Parve, Jaan; Kudrjašova, Marina; Shalima, Tatsiana; Villo, Ly; Liblikas, Ilme; Reile, Indrek; Pehk, Tõnis; Gathergood, Nicholas; Aav, Riina; Vares, Lauri; Parve, Omar** ACS sustainable chemistry & engineering 2021 / p. 1494-1499  
<https://doi.org/10.1021/acssuschemeng.0c07918> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**SET-LRP of bio- and petroleum-sourced methacrylates in aqueous alcoholic mixtures**  
**Moreno, Adrian; Bensabeh, Nabil; Parve, Jaan; Ronda, Juan C.; Cádiz, Virginia; Galià, Marina; Vares, Lauri; Lligadas, Gerard; Percec, Virgil** Biomacromolecules 2019 / p. 1816 - 1827 <https://doi.org/10.1021/acs.biomac.9b00257> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Stereoselective Synthesis of  $\gamma$ -(Acyloxy)Carboxylic Acids and  $\gamma$ -Lactones Features the Switch of Stereopreference of CalB Along Sodium  $\gamma$ -Hydroxycarboxylate Homologues**

Parve, Jaan; **Kudrjašova, Marina**; **Shalima, Tatsiana**; **Villo, Ly**; **Ferschel, Moonika**; **Niidu, Allan**; Liblikas, Ilme; Reile, Indrek; **Aav, Riina**; Gathergood, Nicholas; Vares, Lauri; Pehk, Tõnis; **Parve, Omar** European journal of organic chemistry 2023 / art. e202201329 <https://doi.org/10.1002/ejoc.202201329> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Synthesis and quantitative analysis of diastereomeric linked ester conjugates with remote stereocenters using high field NMR and chiral HPLC**

**Doyle, Eva**; Parve, Jaan; **Kudrjašova, Marina**; **Tamp, Sven**; **Müürisepp, Aleksander-Mati**; **Villo, Ly**; Vares, Lauri; **Pehk, Tõnis**; **Parve, Omar** Chirality 2013 / p. 793-798 : ill <https://doi.org/10.1002/chir.22217> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The tetrahydropyranyl-protected mandelic acid : a novel versatile chiral derivatising agent**

Parve, Omar; Aidnik, Madis; **Lille, Ülo**; **Martin, Ivar**; **Vallikivi, Imre**; Vares, Lauri; **Pehk, Tõnis** Tetrahedron : asymmetry 1998 / p. 885-896: ill <https://www.sciencedirect.com/science/article/abs/pii/S0957416698000536>