

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

An assessment of alternative low level calculation methods for the initial selection of conformers of diastereomeric esters
Metsala, Andrus; Tamp, Sven; Danilas, Kady; Lille, Ülo; Villo, Ly; Vija, Sirje; Pehk, Tõnis; Parve, Omar Journal of theoretical chemistry 2014 / p. 1-10 : ill

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](#)

An NMR spectroscopic investigation of functional group selectivity of lipase-catalysed reactions of 11-acetyl prostaglandins E1 and E2
Villo, Ly; Tamp, Sven; Vallikivi, Imre; Järving, Ivar; Pehk, Tõnis; Parve, Omar Proceedings of the 9th International Symposium on Biocatalysis and Biotransformations - (Biotrans 2009) Held in Bern, Switzerland 5-9 July 2009 2010 / p. 66

Asümmeetriliste alküleerimisreaktsioonide mehhanismi uurimine poolempiiriliste kvantkeemiliste arvutustega = Mechanistic studies of asymmetric alkylation reactions by semi-empirical quantum chemical calculations
Martin, Ivar; Parve, Omar; Vares, L. XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 109-110 https://www.ester.ee/record=b1070511*est

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

Chemical versus enzymatic acetylation of [alfa]-bromo-[omega]-hydroxyaldehydes : decyclization of hemiacetals by lipase
Villo, Ly; Metsala, Andrus; Parve, Omar; Pehk, Tõnis Tetrahedron letters 2002 / p. 3203-3207
https://www.academia.edu/17112413/Chemical_versus_enzymatic_acetylation_of_%CE%B1_bromo_%CF%89_hydroxyaldehydes_decyclization_of_hemiacetals_by_lipase

A chemoenzymatic approach to the preparation of optically active alpha-bromo-omega-hydroxy aldehyde hemiacetals
Parve, Omar; Vallikivi, Imre; Lahe, Lilja; Sikk, Peeter; Käämbre, Tuuli; Lille, Ülo Proceedings of the Estonian Academy of Sciences. Chemistry 1997 / 4, p. 186-190

A chemoenzymatic stereoselective synthesis of deoxy sugar esters of amino acids
Villo, Ly; Pehk, Tõnis; Parve, Omar Program and abstracts : BOS 2010 International Conference on Organic Synthesis : Riga, Latvia, June 27-30, 2010 2010 / p. ?

A chemoenzymatic synthesis of a deoxy sugar ester of N-Boc-protected L-tyrosine
Villo, Ly; Kreen, Malle; Kudrjašova, Marina; Metsala, Andrus; Tamp, Sven; Lille, Ülo; Pehk, Tõnis; Parve, Omar Practical methods for biocatalysis and biotransformations. 2 2012 / p. 335-339
<https://www.sciencedirect.com/science/article/pii/S1381117710002511>

A chemoenzymatic synthesis of deoxy sugar esters involving stereoselective acetylation of hemiacetals catalyzed by CALB
Villo, Ly; Kreen, Malle; Metsala, Andrus; Tamp, Sven; Lille, Ülo; Pehk, Tõnis; Parve, Omar; Kudrjašova, Marina Journal of molecular catalysis B : enzymatic 2011 / p. 44-51 <https://www.sciencedirect.com/science/article/abs/pii/S1381117710002511>

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](#)

Estrite lipaaskatalüütiline enantioselektiivne hüdroolüüs : kineetiliste mõõtmiste tulemuste interpretatsioon
Parve, Omar; Metsala, Andrus; Lille, Ülo XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 99

Extending traditional area of lipases' application for prostanoid and hemiacetal chemistry
Parve, Omar; Metsala, Andrus; Tamp, Sven; Villo, Ly BIT's 1st Annual World Congress of Catalytic Asymmetric Synthesis : Beijing, China, 19.-21.05.2010 2010

Homokiraalsete struktuurielementide saamine ensümaatilise hüdroolüüsi teel

Parve, Omar; Sikk, Peeter; **Lille, Ülo** XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 105-106

Hydrolytic and dehydratase enzymes : chapter 9

Yu, S.; Parve, Jaan; Parve, Omar; Villo, Ly; Aav, Riina Applied biocatalysis: The chemist's enzyme toolbox 2020 / p. 333-361
<https://www.wiley.com/en-us/9781119487012>

Innovatsioon kui teaduslik mõttesport

Parve, Omar Sirp 2017 / lk. 22-23 : ill <http://www.sirp.ee/s1-artiklid/c21-teadus/innovatsioon-kui-teaduslik-mottesport/>

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>

Kodumaine sünteesitud d-kloprostenool

Aidnik, Madis; **Lille, Ülo**; Parve, Omar Eesti Loomaarstlik Ringvaade 1995 / 5, lk. 205-206

Kuidas õpetada Prantsusmaa ajalugu ja rohelist keemiat

Parve, Omar Õpetajate Leht 2017 / lk. 13 <https://opleht.ee/2017/06/kuidas-opetada-prantsusmaa-ajalugu-ja-rohelist-keemiat/>

Lipase action on some non-triglyceride substrates

Vallikivi, Imre; Lille, Ülo; Lõokene, Aivar; Metsala, Andrus; Sikk, Peeter; Tõugu, Vello; Vija, Heiki; **Villo, Ly; Parve, Omar** Journal of molecular catalysis B : enzymatic 2003 / 5/6, p. 279-298 : ill <https://www.sciencedirect.com/science/article/abs/pii/S1381117703000432>

Lipase-catalysed acyl transfer in deoxysugars : a computational study

Kaevand, Toomas; Villo, Ly; Metsala, Andrus; Parve, Omar; Lille, Ülo International journal of engineering and applied sciences (EAAS) 2015 / p. 1-7 : ill

Lipase-catalysed acylation of prostanoids

Parve, Omar; **Järving, Ivar; Martin, Ivar; Metsala, Andrus; Vallikivi, Imre; Aidnik, Madis; Pehk, Tõnis**; Samel, Nigulas Bioorganic & medicinal chemistry letters 1999 / p. 1853-1858: ill

Lipase-catalysed derivatisation of prostanoids

Parve, Omar; **Vallikivi, Imre**; Martin, Ivar; Järving, Ivar; Samel, Nigulas 11th European Symposium on Organic Chemistry : Göteborg, Sweden, July 23-28, 1999 : programme and abstracts 1999 / p. P179

Lipase-catalysed enantioselective hydrolysis : interpretation of the kinetic results in terms of frontier orbital localisation

Parve, Omar; **Vallikivi, Imre**; Metsala, Andrus; **Lille, Ülo**; Tõugu, Vello; Sikk, Peeter; **Käämbre, Tuuli**; Vija, Heiki; **Pehk, Tõnis** Tetrahedron 1997 / 13, p. 4889-4900

Lipase-catalysed enantioselective hydrolysis of bicyclo[3.2.0]heptanol esters in supercritical carbon dioxide

Parve, Omar; **Vallikivi, Imre**; Lahe, Lilja; Metsala, Andrus; **Lille, Ülo**; Tõugu, Vello; Vija, Heiki; **Pehk, Tõnis** Bioorganic & medicinal chemistry letters 1997 / 7, p. 811-816

Lipase-catalysed enantioselective hydrolysis of esters : interpretation of the kinetic results

Parve, Omar; Metsala, Andrus; **Lille, Ülo** 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 109

Lipase-catalysed reactions of prostaglandins

Vallikivi, Imre 2004 https://www.ester.ee/record=b1990575*est

Lipase-catalysed regioselective acylation/deacylation of prostanoids

Vallikivi, Imre; Järving, Ivar; Metsala, Andrus; **Pehk, Tõnis**; Parve, Omar International Conference on Organic Synthesis : Vilnius, 2000, June 26-29 : program and abstracts 2000 / p. [82]

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](#)

"Lipolase" allub sekundaarsete alkoholide enantioeelituse üldisele reeglile nii vesi kui ka superkriitilise (SC)CO₂ keskkonnas = "Lipolase" obeys the general enantiopreference rule of secondary alcohols in water and supercritical (SC)CO₂ media as well

Lille, Ülo; Metsala, Andrus; Parve, Omar; Tõugu, Vello; Vija, Heiki XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 101-102

Molekulide sünteesija ja modelleerija

Parve, Omar Sirp 2021 / lk. 33-34 : portr <https://www.sirp.ee/s1-artiklid/c21-teadus/molekulide-sunteesija-ja-modelleerija/>

NMR monitoring of lipase-catalyzed reactions of prostaglandins : preliminary estimation of reaction velocities

Vallikivi, Imre; Järving, Ivar; Pehk, Tõnis; Samel, Nigulas; Tõugu, Vello; Parve, Omar Journal of molecular catalysis B : enzymatic 2004 / p. 15-19 : ill

Nobeli keemiaauhind anti julguse eest murda mõttebarjääre

Parve, Omar Sirp 2016 / lk. 36-37 : ill <http://www.sirp.ee/s1-artiklid/c21-teadus/nobeli-keemiaauhind-anti-julguse-eest-murda-mottebarjaare/>

Novel biobased alternatives to conventional polymers

Matt, Livia; Parve, Jaan; Parve, Omar; Pehk, Tõnis; Liblikas, Ilme; Laanesoo, Siim; Bonjour, Olivier; Pham, T.H.; Faisal, M.; Vares, L.; Jannasch, Patric Frontiers in Organic Synthesis : Dedicated to the 70th birthday of Professor Margus Lopp, Tallinn, 15th November 2019 2019 / p. 7 <https://www.ttu.ee/public/k/keemia-ja-biotehnoloogia-instituut/pildid/Booklet.pdf>

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

Omar Parve : minu küsimused sõjamuuseumile seoses Rakvere Nõukogude sõjahaua ümbermatmisega

Parve, Omar 2022 [Omar Parve : minu küsimused sõjamuuseumile seoses Rakvere Nõukogude sõjahaua ümbermatmisega](#)

Omar Parve: erakondade demokraatlikkuse peaks seadusse kirjutama

Parve, Omar err.ee 2025 <https://www.err.ee/1609719366/omar-parve-erakondade-demokraatlikkuse-peak-seadusse-kirjutama>

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

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

Prediction and assignment of coupling constants of diastereomeric cyclopentane derivatives

Aav, Riina; Pehk, Tõnis; Tamp, Sven; Tamm, Toomas; Kudrjašova, Marina; Parve, Omar; Lopp, Margus Program and abstracts : BOS 2010 International Conference on Organic Synthesis : Riga, Latvia, June 27-30, 2010 2010 / p. 47

Preparation of highly enantiopure stereoisomers of 1-(2,6-dimethylphenoxy)-2-aminopropane (mexiletine)

Aav, Riina; Parve, Omar; Pehk, Tõnis; Claesson, Alf; Martin, Ivar Tetrahedron : asymmetry 1999 / p. 3033-3038 <https://www.sciencedirect.com/science/article/abs/pii/S0957416699003110>

Prostanoidide lipaas-katalüütiline atsüleerimine

Parve, Omar; Vallikivi, Imre; Martin, Ivar; Järving, Ivar; Samel, Nigulas XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 129-130

Prostanoidide reaktsioonid ja molekulaarmodelleerimine Candida antarctica lipaas B aktiivsentrts

Vallikivi, Imre; Pehk, Tõnis; Fransson, Linda; Hult, Karl; Parve, Omar XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 155-156

Quantum chemical evaluation of the yield of hydroxybenzophenones in the Fries rearrangement of hydroxyphenyl benzoates

Metsala, Andrus; Usin, Eve; Vallikivi, Imre; Villo, Ly; Pehk, Tõnis; Parve, Omar Journal of molecular structure : THEOCHEM 2004 / p. 215-221 : ill <https://www.sciencedirect.com/science/article/pii/S016612800400750X>

Sapihapete ja prostaglandiinide derivaatide ja konjugaatide süntees ning nende mõju candida rugosa lipaasi aktiivsusele

Veskilt, Eva; Villo, Ly; Kudrjašova, Marina; Parve, Omar XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 108 : ill

Scalable lipase-catalyzed synthesis of (R)-4-(Acyloxy)pentanoic acids from racemic γ -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

Semiempirical transition state modeling of asymmetric alkylation reaction

Martin, Ivar; Parve, Omar; Vares, L. Japan-Northern Baltic Symposium on Synthetic Chemistry, Helsinki, Finland, June 25-26, 1996 : abstracts 1996 / p. PL17

Short synthesis of novel 9,11-secoosterols

Jäälaid, Raissa; **Järving, Ivar**; **Pehk, Tõnis**; **Parve, Omar**; **Lille, Ülo** Natural product letters 2001 / 4, p. 221-228
<https://www.tandfonline.com/doi/abs/10.1080/10575630108041285>

Stereoselective chemoenzymatic synthesis of deoxy sugar esters involving Candida antarctica lipase B = Desoksüsuhkru estrite stereoselektiivne kemoensümaatiline süntees kasutades Candida antarctica lipaasi B
Villo, Ly 2008 https://www.ester.ee/record=b2393878*est

Stereoselective Synthesis of γ -(Acyloxy)Carboxylic Acids and γ -Lactones Features the Switch of Stereopreference of CalB Along Sodium γ -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](#)

Switched enantioference of Humicola lipase for 2-phenoxyalkanoic acid ester homologs can be rationalized by different substrate binding modes

Berglund, P.; **Vallikivi, Imre**; Fransson, Linda; Dannacher, H.; Holmquist, M.; Martinelle, M.; Björklund, F.; Parve, Omar; Hunt, K. Tetrahedron : asymmetry 1999 / p. 4191-4202 <https://www.sciencedirect.com/science/article/pii/S0957416699004383>

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](#)

Synthesis of 3,4-dideoxy ribose esters: a novel chemoenzymatic approach to synthesis of activated, extended-chain glycoconjugates

Villo, Ly; **Danilas, Kady**; **Metsala, Andrus**; **Pehk, Tõnis**; **Parve, Omar** International Conference on Organic Synthesis : Tallinn, Estonia, June 25-29, 2006 : program and abstracts 2006 / p. 164

Synthesis of deoxy sugar esters : a chemoenzymatic stereoselective approach affording deoxy sugar derivatives also in the form of aldehyde

Villo, Ly; **Danilas, Kady**; **Metsala, Andrus**; **Kreen, Malle**; **Vallikivi, Imre**; **Vija, Sirje**; **Pehk, Tõnis**; Luciano, Saso; **Parve, Omar** Journal of organic chemistry 2007 / p. 5813-5816 <https://pubs.acs.org/doi/10.1021/jo062640b>

A synthesis of deoxy sugar esters. Stereoselective acetylation of hemiacetals by CALB

Villo, Ly; **Metsala, Andrus**; **Tamp, Sven**; **Pehk, Tõnis**; **Parve, Omar** Biotrans 2011 : Itäalia, Giardini Naxos, 02.-05.10.2011 2011

Tetrahüdopüranüül-blokitud mandelhappe kasutamine kiraalse derivatiseerimisagentina

Parve, Omar; Pals, A.; **Vallikivi, Imre**; Lahe, Lilja; **Lille, Ülo** XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 106-108

The modelling and kinetic investigation of the lipase-catalysed acetylation of stereoisomeric prostaglandins

Vallikivi, Imre; Fransson, Linda; Hult, Karl; **Järving, Ivar**; **Pehk, Tõnis**; **Samel, Nigulas**; **Tõugu, Vello**; **Villo, Ly**; **Parve, Omar** Journal of molecular catalysis B : enzymatic 2005 / p. 62-69 : ill

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>

Theoretical prediction and assignment of vicinal ^1H – ^1H coupling constants of diastereomeric 3-alkoxy-6,7-epoxy-2-oxabicyclo[3.3.0]octanes

Aav, Riina; **Pehk, Tõnis**; **Tamp, Sven**; **Tamm, Toomas**; **Kudrjašova, Marina**; **Parve, Omar**; **Lopp, Margus** Magnetic resonance in chemistry 2011 / p. 76-82 : ill <https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/full/10.1002/mrc.2712>

Thermomyces lanuginosus lipase with closed lid catalyzes elimination of acetic acid from 11-acetyl-prostaglandin E2

Villo, Ly; **Metsala, Andrus**; **Tamp, Sven**; Parve, Jaan; **Vallikivi, Imre**; **Järving, Ivar**; **Nigulas, Samel**; **Lille, Ülo**; **Pehk, Tõnis**; **Parve, Omar** ChemCatChem 2014 / p. 1998-2010 : ill <https://doi.org/10.1002/cctc.201400019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Омар Парве: демократические принципы политических партий должны быть прописаны в законе

Parve, Omar rus.err.ee 2025 <https://rus.err.ee/1609721835/omar-parve-demokraticheskie-principy-politicheskikh-partij-dolzny-byt-propisany->

