

**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 advanced intermediate for the synthesis of 9,11-secosterols**  
**Jäälaid, Raissa; Järving, Ivar; Pehk, Tõnis; Lille, Ülo** Proceedings of the Estonian Academy of Sciences. Chemistry 1998 / p. 39-43

**Aerobic oxidation of cyclopentane-1,2-diols to cyclopentane-1,2-diones on Pt/C catalyst**  
**Reile, Indrek; Paju, Anne; Eek, Margus; Pehk, Tõnis; Lopp, Margus** Synlett 2008 / 3, p. 347-350 <https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-2008-1032056>

**Alkoxide-based precursors for direct drawing of metal oxide micro- and nanofibres**  
**Tätte, Tanel; Hussainov, Medhat; Paalo, Madis; Part, Marko; Talviste, Rasmus; Kiisk, Valter; Mändar, Hugo; Põhako, Kaija; Pehk, Tõnis; Reivelt, Kaido; Natali, Marco; Gurauskis, Jonas; Lõhmus, Ants; Mäeorg, Uno** Science and technology of advanced materials 2011 / [12] p.: ill

**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

**Anchimeric assistance in the case of vicinal dimesylate : formation of enantiomeric or meso-biomorpholine**  
**Kanger, Tõnis; Laars, Marju; Kriis, Kadri; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus** Synthesis 2006 / 11, p. 1853-1857  
[https://www.researchgate.net/publication/239729268\\_Anchimeric\\_Assistance\\_in\\_the\\_Case\\_of\\_Vicinal\\_Dimesylate\\_Formation\\_of\\_Enantiomeric\\_or\\_meso\\_-Biomorpholine](https://www.researchgate.net/publication/239729268_Anchimeric_Assistance_in_the_Case_of_Vicinal_Dimesylate_Formation_of_Enantiomeric_or_meso_-Biomorpholine)

**Application of <sup>13</sup>C-[2]- and <sup>13</sup>C-[1,2] acetate in metabolic labelling studies of yeast and insect cells**  
**Paalme, Toomas; Nisamedtinov, Ildar; Abner, Kristo; Laht, Tiiu-Maie; Drews, Monika; Pehk, Tõnis** Antonie van Leeuwenhoek 2006 / 3/4, p. 443-457 <https://link.springer.com/article/10.1007/s10482-005-9053-7>

**Aromaatsete isotsüanaatide intramolekulaarsel tsükliisatsioonil tekkivate kõrvalproduktide eraldamine ja identifitseerimine**  
**Schmidt, M.; Eek, Margus; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 156-157

**Asendatud (2S,2'S)-bimorfoliinide süntees**  
**Lippur, Kristin; Kriis, Kadri; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Kanger, Tõnis** XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 82-83

**Asümmeetriline induktsioon Aldool-Tištsenko reaktsioonil optiliselt aktiivsete binaftoolkatalüsaatoritega**  
**Loog, O.; Mäeorg, U.; Pehk, Tõnis** XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 68

**Asümmeetriliste katalüsaatorite mõnede kiraalsete ligandide süntees**  
**Ilmarinen, Kaja; Pehk, Tõnis; Lopp, Margus** XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 36-37

**Asymmetric induction in aldol-Tishchenko reaction with optically active binaphthol catalysts**  
**Loog, O.; Mäeorg, U.; Pehk, Tõnis** 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 77

**Asymmetric organocatalytic cascade synthesis of tetrahydrofuran-yl spirooxindoles**  
**Trubitsin, Dmitri; Žari, Sergei; Kaabel, Sandra; Kudrjašova, Marina; Kriis, Kadri; Järving, Ivar; Pehk, Tõnis; Kanger, Tõnis** Synthesis 2018 / p. 314-322 : ill <https://doi.org/10.1055/s-0036-1590918> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Asymmetric oxidation of 1,2-cyclopentanediones**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** Tetrahedron letters 2000 / 35, p. 6883-6887

#### **Asymmetric oxidation of 3-alkyl-1,2-cyclopentanediones**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** International Conference on Organic Synthesis : Vilnius, 2000, June 26-29 : program and abstracts 2000 / p. 64

#### **Asymmetric oxidation of 3-alkyl-1,2-cyclopentanediones. Part 1, 3-hydroxylation of 3-alkyl-1,2-cyclopentanediones**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Müürisepp, Aleksander-Mati; Lopp, Margus** Tetrahedron : asymmetry 2002 / p. 2439-2448 <https://www.sciencedirect.com/science/article/pii/S095741660200589X>

#### **Asymmetric oxidation of 3-alkyl-1,2-cyclopentanediones. Part 2, Oxidative ring cleavage of 3-alkyl-1,2-cyclopentanediones : synthesis of 2-alkyl-[gamma]-lactone acids**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Lindmaa, Rasmus; Müürisepp, Aleksander-Mati; Lopp, Margus** Tetrahedron : asymmetry 2003 / p.1565-1573 <https://www.sciencedirect.com/science/article/pii/S0957416603003094>

#### **Asymmetric oxidation of 3-alkyl-1,2-cyclopentanediones. Part 3, Oxidative ring cleavage of 3-hydroxyethyl-1,2-cyclopentanediones : synthesis of [alfa]-hydroxy-[gamma]-lactone acids and spiro-[gamma]-dilactones**

**Paju, Anne; Kanger, Tõnis; Niitsoo, Olivia; Pehk, Tõnis; Müürisepp, Aleksander-Mati; Lopp, Margus** Tetrahedron : asymmetry 2003 / p. 2393-2399

#### **Asymmetric oxidation of 3-aminoethyl-1,2-cyclopentanedione : synthesis of spiro-g-lactone-g-lactam**

**Paju, Anne; Hohlova, N.; Pehk, Tõnis; Lopp, Margus** Balticum Organicum Synthetium : International Conference on Organic Synthesis : June 29 - July 2, 2008, Vilnius : program and abstract book 2008 / p. 143

#### **Asymmetric oxidation of cyclobutanones : modification of the Sharpless catalyst**

**Kanger, Tõnis; Kriis, Kadri; Paju, Anne; Pehk, Tõnis; Lopp, Margus** Tetrahedron : asymmetry 1998 / p. 4475-4482

#### **Asymmetric oxidation of ketones**

**Lopp, Margus; Paju, Anne; Kanger, Tõnis; Kriis, Kadri; Ilmarinen, Kaja; Pehk, Tõnis** Proceedings of the Estonian Academy of Sciences. Chemistry 2001 / 3, p. 124-137

#### **Asymmetric synthesis of 2/alkyl-substituted 2-hydroxyglutaric acid [gamma]-lactones**

**Paju, Anne; Laos, Marit; Jõgi, Artur; Päre, Malle; Jäälaid, Raissa; Pehk, Tõnis; Kanger, Tõnis; Lopp, Margus** Tetrahedron letters 2006 / 26, p. 4491-4493 <https://www.sciencedirect.com/science/article/pii/S004040390600726X>

#### **Asymmetric synthesis of 2-alkyl-substituted 2-hydroxyglutaric acid [gamma]-lactones: a simple access to dag-lactone template**

**Laos, Marit; Jõgi, Artur; Päre, Malle; Jäälaid, Raissa; Paju, Anne; Pehk, Tõnis; Kanger, Tõnis; Lopp, Margus** International Conference on Organic Synthesis : Tallinn, Estonia, June 25-29, 2006 : program and abstracts 2006 / p. 108

#### **Asymmetric synthesis of 2-aryl-5-oxotetrahydrofuran-2-carboxylic acids**

**Jõgi, Artur; Paju, Anne; Pehk, Tõnis; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Kanger, Tõnis; Lopp, Margus** Synthesis 2006 / 18, p. 3031-3036 : ill <https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-2006-950193>

#### **Asymmetric synthesis of 2-benzyl- and 2-benzylloxymethyl g-lactone acids**

**Laos, Marit; Jõgi, Artur; Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** 14th European Symposium on Organic Chemistry (ESOC14) 2005 / p. 309

#### **Asymmetric synthesis of 4'-C-benzyl-2',3'-dideoxynucleoside analogues from 3-benzyl-2-hydroxy-2-cyclopenten-1-one**

**Jõgi, Artur; Ilves, Marit; Paju, Anne; Pehk, Tõnis; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Lopp, Margus** Tetrahedron : asymmetry 2008 / 5, p. 628-634 [https://www.researchgate.net/publication/232406405\\_Asymmetric\\_synthesis\\_of\\_4'-C-benzyl-2'3'-dideoxynucleoside\\_analogues\\_from\\_3-benzyl-2-hydroxy-2-cyclopenten-1-one](https://www.researchgate.net/publication/232406405_Asymmetric_synthesis_of_4'-C-benzyl-2'3'-dideoxynucleoside_analogues_from_3-benzyl-2-hydroxy-2-cyclopenten-1-one)

#### **Asymmetric synthesis of novel C2-symmetric bimorpholines**

**Kanger, Tõnis; Kriis, Kadri; Pehk, Tõnis; Müürisepp, Aleksander-Mati; Lopp, Margus** Tetrahedron : asymmetry 2002 / p. 857-865

#### **Asymmetric synthesis of tertiary 2-substituted 5-oxotetrahydrofuran-2-carboxylic acids**

**Paju, Anne; Oja, Karolin; Matkevits, Katharina; Lumi, Priit; Järving, Ivar; Pehk, Tõnis; Lopp, Margus** Heterocycles 2014 / p. 981-995 : ill [https://doi.org/10.3987/COM-13-S\(S\)28](https://doi.org/10.3987/COM-13-S(S)28) Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### **Bimorpholine as an organocatalyst for asymmetric aldol condensation**

**Kriis, Kadri; Kanger, Tõnis; Laas, Marju; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus** International Conference on Organic Synthesis : Tallinn, Estonia, June 25-29, 2006 : program and abstracts 2006 / p. 104

### **Bimorpholine-mediated enantioselective intramolecular and intermolecular aldol condensation**

**Kanger, Tõnis; Kriis, Kadri; Laars, Marju; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus** Journal of organic chemistry 2007 / p. 5168-5173 <https://pubs.acs.org/doi/10.1021/jo070524i>

### **Bitsüklo[3.3.0]oktanooni derivaatide süntees**

**Raudla, Kristin; Kanger, Tõnis; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 94-95

### **Bitsüklo[3.3.0]oktaanide suhtelise konfiguratsiooni määramine <sup>1</sup>H-<sup>13</sup>C spinn-spinn sidestuskonstantide abil**

**Suun, S.; Pehk, Tõnis; Kaljuste, K.; Tamp, Sven; Jarvet, Jüri; Aav, Riina** XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 96 : ill

### **C2-symmetric enantiomeric heterocycles : synthesis and application**

**Kanger, Tõnis; Kriis, Kadri; Ausmees, Kerti; Pehk, Tõnis; Lopp, Margus** 13th European Symposium on Organic Chemistry : September 10-15, 2003, Cavtat-Dubrovnik, Croatia : programme and abstracts 2003 / p. 342

### **Carboxymethylated beta-cyclodextrin**

**Kreen, Malle; Köstner, Ado; Pehk, Tõnis** Biobalt'92 : Biotechnology in Estonia, Latvia and Lithuania : Tallinn, November 1992 : conference abstracts 1992 / p. 36

### **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)

### **Catalytic asymmetric synthesis of g-lactone acids**

**Paju, Anne; Niidu, Allan; Lumi, Priit; Matkevits, Katharina; Oja, Karolin; Pehk, Tõnis; Lopp, Margus** Program and abstracts : BOS 2010 International Conference on Organic Synthesis : Riga, Latvia, June 27-30, 2010 2010

### **Catalytic reduction of sterols**

**Eek, Margus; Allikmaa, Veiko; Pehk, Tõnis; Lopp, Margus** 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 17

### **Changes in chemical structure of urea-formaldehyde condensates during synthesis**

**Siimer, Kadri; Pehk, Tõnis; Christjanson, Peep** International Conferences on Polymer Characterization : POLYCHAR-7, January 5-8, 1999 & Short course, January 4, 1999, Denton, USA : program and book of abstracts 1999 / p. P-10

### **Changes in curing behaviour of aminoresins during storage**

**Siimer, Kadri; Kaljuvee, Tiit; Christjanson, Peep; Pehk, Tõnis** Journal of thermal analysis and calorimetry 2005 / p. 123-130 : ill <https://link.springer.com/article/10.1007/s10973-005-0623-8>

### **Changes in curing behaviour of aminoresins during storage**

**Siimer, Kadri; Kaljuvee, Tiit; Christjanson, Peep; Pehk, Tõnis** ICTAC 13 : 13th International Congress on Thermal Analysis and Calorimetry : XXVI Conference AICAT-GICAT : Chia Laguna, September 12-19, 2004 : book of abstracts 2004 / p. 85 <https://link.springer.com/article/10.1007/s10973-005-0623-8>

### **Changes in thermal behaviour of aminoresins at storage**

**Siimer, Kadri; Süld, Tiia-Maaja; Kaljuvee, Tiit; Christjanson, Peep; Pehk, Tõnis** Program & abstracts of the 27th Annual Meeting of The Polymer Processing Society - PPS-27 : Marrakech, Morocco, May 10-14, 2011 2011 / p. P-13-1250

### **Characterisation of ageing of melamine-formaldehyde resins by NMR spectroscopy**

**Siimer, Kadri; Pehk, Tõnis; Suurpere, Aime** Nordic Polymer Days 2000 : Helsinki, 24-26 May 2000 2000 / [1] p

### **Characterization of urea-formaldehyde condensation by <sup>13</sup>C NMR spectroscopy**

**Siimer, Kadri; Pehk, Tõnis; Christjanson, Peep** Stambiamolekuliu junginiu chemija ir technologija = Polymer chemistry and technology : konferencijos pranešimu medžiaga 1999 / p. 61-66: ill

### **Chemical structure of melamine-formaldehyde resins**

**Pehk, Tõnis; Christjanson, Peep; Siimer, Kadri** Polychar World Forum on Polymer Applications and Theory : POLYCHAR-9, January 9-12, 2001 & short course January 8, 2001, University of North Texas, Denton, USA : program and book of abstracts 2001 / p. P-70

### **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\\_vs enzymatic\\_acetylation\\_of\\_%CE%B1\\_bromo\\_%CF%89\\_hydroxyaldehydes\\_decyclization\\_o](https://www.academia.edu/17112413/Chemical_vs enzymatic_acetylation_of_%CE%B1_bromo_%CF%89_hydroxyaldehydes_decyclization_o)

**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>

**Colloid food additives from red and brown algae of the Baltic Sea : structure and rheology**

**Vaher, Merike; Truus, Kalle; Menert, Anne; Pehk, Tõnis** 1st Nordic-Baltic Meeting on Surface and Colloid Science : August 21-25, 1999, Vilnius, Lithuania : program and abstracts 1999 / p. 77

**A comparative study of asymmetric Baeyer-Villiger oxidation of cyclic ketones**

**Kanger, Tõnis; Kriis, Kadri; Paju, Anne; Kallas, Kaja; Pehk, Tõnis; Lopp, Margus** 10th IUPAC Symposium on Organo-Metallic Chemistry directed towards Organic Synthesis : 18-22 July, 1999, Versailles (France) : final program 1999 / p. P232

**A comparative study of the synthesis of C2-symmetric chiral 2,2'-biaziridinyls of 3-alkyl-1,2-cyclopentanediones**

**Kanger, Tõnis; Ausmees, Kerti; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus** Synlett 2003 / p. 1055-1057  
<https://doi.org/10.1055/s-2003-39303>

**A comparative study of the synthesis of C2-symmetric chiral 2,2'-bisaziridinyls**

**Kanger, Tõnis; Ausmees, Kerti; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus** Komppa Centenary Symposium : July 6-9, 2003, Espoo, Finland : abstracts 2003 / p. A44

**Complex investigation of composition of the brown alga Fucus vesiculosus (The Baltic Sea) by different instrumental methods**

**Vaher, Merike; Truus, Kalle; Koel, Mihkel; Pehk, Tõnis; Taure, Imants; Viitak, Anu** IMA'03 : 3rd International Conference : Instrumental Methods of Analysis Modern Trends and Applications : 23-27 September 2003, Thessaloniki, Greece : conference proceedings 2003 / p. 238-240 : ill

**Composition and structure of summary polysaccharide from the red alga Furcellaria lumbricalis**

**Vaher, Merike; Truus, Kalle; Taure, Imants; Leito, Ivo; Lahe, Lilja; Kallavus, Urve; Pehk, Tõnis** Proceedings of the Estonian Academy of Sciences. Chemistry 1998 / 2, p. 51-59: ill

**A convenient method for the construction of the imidazolone ring in the synthesis of benzamidine derivatives**

**Allikmaa, Veiko; Eek, Margus; Pehk, Tõnis; Lopp, Margus** Proceedings of the Estonian Academy of Sciences. Chemistry 2001 / 3, p. 180-185

**Crucial gel-forming processes of red algal galactans [Electronic resource]**

**Tuvikene, Rando; Truus, Kalle; Volobujeva, Olga; Mellikov, Enn; Pehk, Tõnis** World Polymer Congress : 41st International Symposium on Macromolecules : MACRO 2006 : 16-21 July 2006, Rio de Janeiro, Brazil 2006 / [CD-ROM]

**Cure-accelerated phenol-formaldehyde resins**

**Siimer, Kadri; Kaljuvee, Tiit; Christjanson, Peep; Pehk, Tõnis; Saks, Imre** Kemian Päivat = Kemidagarna = Finnish Chemical Congress : 27.-29.3.2007 : abstraktid = abstracts 2007 / p. 38

**Curing behaviour of resol phenol-formaldehyde resins**

**Siimer, Kadri; Kaljuvee, Tiit; Christjanson, Peep; Pehk, Tõnis; Saks, Imre** Baltic Polymer Symposium 2007 : Druskininkai, Lithuania, September 19-21, 2007 : programme and book of abstracts 2007 / p. 131

**Curing behaviour of urea-modified phenol-formaldehyde resin**

**Siimer, Kadri; Süld, Tiia-Maaja; Kaljuvee, Tiit; Christjanson, Peep; Pehk, Tõnis** Book of abstracts of the Polymer Processing Society 9th Annual Meeting PPS-09 : Larnaca, Cyprus, October 18-21, 2009 2009 / p. P-190

**Cyclopentane-1,2-dione and cyclopent-2-en-1-one in asymmetric organocatalytic reactions = Tsüklopentaan-1,2-diooni ja tsüklopent-2-een-1-ooni asümmeetrilised organokatalüütilised reaktsioonid**

**Preegel, Gert** 2016 [https://www.ester.ee/record=b4570177\\*est](https://www.ester.ee/record=b4570177*est)

#### **Derivatisation of Grieco lactone**

**Aav, Riina; Kanger, Tõnis; Pehk, Tõnis;** Riismandel, A.; **Lopp, Margus** International Conference on Organic Synthesis : Tallinn, Estonia, June 25-29, 2006 : program and abstracts 2006 / p. 55

#### **Designed whole-cell-catalysis-assisted synthesis of 9,11-secoosterols**

**Kõllo, Marek;** Kasari, Marje; Kasari, Villu; Pehk, Tõnis; **Järving, Ivar; Lopp, Margus;** Jöers, Arvi; **Kanger, Tõnis** Beilstein journal of organic chemistry 2021 / p. 581–588 <https://doi.org/10.3762/bjoc.17.52> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Determination of isotope effects on acid-base equilibria by <sup>13</sup>C NMR spectroscopy**

**Pehk, Tõnis;** Kiirend, E.; **Lippmaa, Endel;** Ragnarsson, U.; Grehn, L. Journal of the Chemical Society. Perkin transactions 1997 / 2, p. 445-450

#### **Diastereoselective multicomponent cascade reaction for the synthesis of heterobicyclic heptanes**

**Kriis, Kadri; Ausmees, Kerti; Plado, Anita;** Pehk, Tõnis; **Lopp, Margus; Kanger, Tõnis** 8th Biennial International Conference on Organic Synthesis : Balticum Organicum Synthetium : July 6-9, 2014, Vilnius : program and abstract book 2014

#### **Diastereoselective multicomponent cascade reaction leading to [3.2.0]-heterobicyclic compounds**

**Ausmees, Kerti; Kriis, Kadri;** Pehk, Tõnis; **Werner, Franz; Järving, Ivar; Lopp, Margus; Kanger, Tõnis** The journal of organic chemistry 2012 / p. 10680-10687 : ill <https://pubs.acs.org/doi/abs/10.1021/jo3019413>

#### **Diastereoselektiivne multikomponentne kaskaadreaktsioon**

**Kriis, Kadri; Pehk, Tõnis; Kanger, Tõnis; Lopp, Margus** XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 14

#### **Diastereoselective multicomponent cascade reaction leading to heterobicyclic heptanes**

**Ausmees, Kerti; Kriis, Kadri;** Pehk, Tõnis; **Lopp, Margus; Kanger, Tõnis** BOS 2012 : International Conference on Organic Synthesis : July 1-4, 2012, Tallinn, Estonia : program and abstracts 2012 / p. 51 <https://pubs.acs.org/doi/abs/10.1021/jo3019413>

#### **Direct asymmetric [alfa]-hydroxylation of 2-hydroxymethyl ketones**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** Tetrahedron 2002 / p. 7321-7326

#### **Direct asymmetric alpha-hydroxylation of beta-hydroxyketones**

**Lopp, Margus; Paju, Anne; Kanger, Tõnis; Pehk, Tõnis** Tetrahedron letters 1997 / 28, p. 5051-5054

#### **Direct asymmetric alpha-hydroxylation of beta-hydroxyketones**

**Kanger, Tõnis; Paju, Anne; Pehk, Tõnis; Lopp, Margus** OMCOS 9 : 9th IUPAC Symposium Organometallic Chemistry, directed towards organic synthesis : final program 1997 / p. 373 <https://www.sciencedirect.com/science/article/abs/pii/S0040403997011027>

#### **Direct asymmetric alpha-hydroxylation of beta-hydroxyketones**

**Lopp, Margus; Paju, Anne; Kanger, Tõnis; Pehk, Tõnis** 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 79

#### **Eesti karbamiidvaigud**

**Siimer, Kadri; Saks, Imre; Christjanson, Peep; Pehk, Tõnis; Suurpere, Aime; Kaljuvee, Tiit** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 101-102

#### **Effect of alkylresorcinols on curing behaviour of phenol-formaldehyde resins**

**Siimer, Kadri; Kaljuvee, Tiit; Christjanson, Peep; Pehk, Tõnis;** Saks, Imre ESTAC 9 : 9th European Symposium on Thermal Analysis and Calorimetry : 27-31 August 2006, Krakow, Poland : [book of abstracts] 2006 / p. 165

#### **Effect of alkylresorcinols on curing behaviour of phenol-formaldehyde resol resin**

**Siimer, Kadri; Kaljuvee, Tiit; Christjanson, Peep; Pehk, Tõnis;** Saks, Imre Journal of thermal analysis and calorimetry 2008 / 2, p. 365-373 : ill <https://link.springer.com/article/10.1007/s10973-007-8449-1>

#### **Effect of alkylresorcinols on curing behaviour of phenol-formaldehyde resol resin**

**Siimer, Kadri; Kaljuvee, Tiit; Christjanson, Peep; Pehk, Tõnis;** Saks, Imre Journal of thermal analysis and calorimetry 2007 / [9] p. : ill

#### **Effect of the chiral catalyst in asymmetric Baeyer-Villiger oxidation of cyclic ketones**

**Kriis, Kadri; Kanger, Tõnis; Paju, Anne;** Ilmarinen, Kaja; **Pehk, Tõnis; Lopp, Margus** International Conference on Organic Synthesis : Vilnius, 2000, June 26-29 : program and abstracts 2000 / p. 51

#### **Ekstraktsioon ja keemiline töötlus kõrgekvaliteetsete karraginaanide saamiseks**

Tuvikene, Rando; Robal, Marju; Ikart, A.-L.; Truus, K.; **Melikov, Enn; Pehk, Tõnis** XXX Eesti keemiapäevad : teaduskonverentsi

**Enantiomeersetete laktoonhapete katalüütiline asümmeetriline süntees**

**Paju, Anne; Niidu, Allan; Lumi, Priit; Matkevits, Katharina; Oja, Karolin;** Pehk, Tõnis; **Lopp, Margus** XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 61

**Enantioselective organocatalytic Michael addition of cyclopentane-1,2-diones to electrophiles**

**Preegel, Gert; Noole, Artur; Kanger, Tõnis;** Pehk, Tõnis; **Lopp, Margus** 8th Biennial International Conference on Organic Synthesis : Balticum Organicum Syntheticum : July 6-9, 2014, Vilnius : program and abstract book 2014

**Enantioselective organocatalytic Michael addition of cyclopentane-1,2-diones to electrophiles**

**Preegel, Gert; Noole, Artur; Ilmarinen, Kaja; Järving, Ivar; Kanger, Tõnis;** Pehk, Tõnis; **Lopp, Margus** 248th ACS National Meeting and Exposition : August 10-14, 2014, San Francisco, CA : Chemistry and Global Stewardship 2014 / [1] p. : ill

**Enantioselective organocatalytic Michael addition of cyclopentane-1,2-diones to nitro olefins**

**Preegel, Gert; Noole, Artur; Ilmarinen, Kaja; Järving, Ivar; Kanger, Tõnis;** Pehk, Tõnis; **Lopp, Margus** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p. : ill

**Enantioselective organocatalytic Michael addition of cyclopentane-1,2-diones to nitroolefins**

**Preegel, Gert; Noole, Artur; Ilmarinen, Kaja; Järving, Ivar; Kanger, Tõnis;** Pehk, Tõnis; **Lopp, Margus** Synthesis 2014 / p. 2595-2600 : ill <https://doi.org/10.1055/s-0034-1378374> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enantioselective organocatalytic Michael addition–cyclization cascade of cyclopentane-1,2-dione with substituted (E)-2-oxobut-3-enates**

**Preegel, Gert; Ilmarinen, Kaja; Järving, Ivar; Kanger, Tõnis;** Pehk, Tõnis; **Lopp, Margus** Synthesis 2015 / p. 3805-3812 : ill <https://doi.org/10.1055/s-0035-1560347> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enantioselective synthesis of Wieland-Miescher ketone through biomorpholine-catalyzed organocatalytic aldol condensation**

**Kriis, Kadri; Kanger, Tõnis; Laars, Marju; Kailas, Tiiu; Müürisepp, Aleksander-Mati;** Pehk, Tõnis; **Lopp, Margus** Synlett 2006 / 11, p. 1699-1702 [https://www.researchgate.net/publication/237887633\\_Enantioselective\\_Synthesis\\_of\\_Wieland-Miescher\\_Ketone\\_through\\_Bimorpholine-Catalyzed\\_Organocatalytic\\_Aldol\\_Condensation](https://www.researchgate.net/publication/237887633_Enantioselective_Synthesis_of_Wieland-Miescher_Ketone_through_Bimorpholine-Catalyzed_Organocatalytic_Aldol_Condensation)

**Endel Lippmaa 70**

**Pehk, Tõnis** Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 2000 / p. 193-195

**Endoperoxide pathway in prostaglandin biosynthesis in the soft coral *Gersemia fruticosa***

**Varvas, Külliki;** Koljak, Reet; **Järving, Ivar; Pehk, Tõnis;** Samel, Nigulas Tetrahedron letters 1994 / 44, p. 8267-8270

**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](#)

**Ergosterooli muundamine 9,11-secosteroolide saamiseks**

Jäälaid, Raissa; **Veressinina, Jelena;** Järving, Ivar; **Pehk, Tõnis; Lille, Ülo** XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 37

**Etüleendiamiin (EDA) tuumaga polüamidoamiin (PAMAM) dendrimeeride erinevate põlvkondade analüüs MALDI-TOF MS**

Peterson, J.; Allikmaa, Veiko; Subbi, J.; **Pehk, Tõnis; Lopp, Margus** XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 110-111

**Etüleendiamiin (EDA) tuumaga polüamidoamiin (PAMAM) dendrimeeride erinevate põlvkondade analüüs MALDI-TOF MS, CZE ja 13C NMR meetoditega**

Peterson, J.; Allikmaa, Veiko; Ebber, Arkadi; Subbi, J.; **Pehk, Tõnis; Lopp, Margus** XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 131

**Etüül 3-[[[(1-(4-(aminoiminometüül)fenüül)-4,5-dihüdro-2(3H)okso-1H-imidasool-3-üül)karbonüül]-amino]-propanoadi süntees**

Allikmaa, Veiko; **Pehk, Tõnis; Lopp, Margus** XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 14-15

**First partial synthesis of 9,11-secosterols with the modified side chain**

Jäälaid, Raissa; **Järving, Ivar; Pehk, Tõnis; Lille, Ülo** Proceedings of the Estonian Academy of Sciences. Chemistry 1998 / 4, p. 196-199 [https://artiklid.elnet.ee/record=b2308819\\*est](https://artiklid.elnet.ee/record=b2308819*est)

### **Fragmentation of PAMAM dendrimers in methanol**

Peterson, Janek; Allikmaa, Veiko; **Pehk, Tõnis; Lopp, Margus** Proceedings of the Estonian Academy of Sciences. Chemistry 2001 / 3, p. 167-172 : ill

### **General approach to measurements of pKa differences by C NMR spectroscopy**

**Pehk, Tõnis**; Kiirend, E.; **Lippmaa, Endel**; Ragnarsson, U. Journal of the Chemical Society. Perkin transactions 1996 / 2, p. 2351-2367

### **Hydroxymethylation and polycondensation reactions in urea-formaldehyde resin synthesis**

**Christjanson, Peep; Pehk, Tõnis; Siimer, Kadri** Journal of applied polymer science 2006 / p. 1673-1680 : ill

[https://www.researchgate.net/publication/230275426\\_Hydroxymethylation\\_and\\_polycondensation\\_reactions\\_in\\_urea-formaldehyde\\_resin\\_synthesis](https://www.researchgate.net/publication/230275426_Hydroxymethylation_and_polycondensation_reactions_in_urea-formaldehyde_resin_synthesis)

### **Impact of short-term heat treatment on the structure and functional properties of commercial furcellaran compared to commercial carrageenans**

**Eha, Kairit**; **Pehk, Tõnis**; Heinmaa, Ivo; Kaleda, Aleksei; **Laos, Katrin** Heliyon 2021 / art. e06640

<https://doi.org/10.1016/j.heliyon.2021.e06640> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **Industrial exploitation of the algal stratum from Kassari Bay (the Baltic Sea, Estonia)**

Vaher, M.; Truus, Kalle; **Sarapuu, M.**; **Pehk, Tõnis**; Kuk, H.; Kollist, A. 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 158

### **Inglise-eesti-vene keemia sõnaraamat**

1998 [https://www.ester.ee/record=b1190326\\*est](https://www.ester.ee/record=b1190326*est)

### **Intramolecular SN1 ring-opening reaction of oxirane**

**Martin, Ivar**; **Aav, Riina**; **Pehk, Tõnis**; Claesson, Alf 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 44

### **Investigation of kukersite structure using NMR and oxidative cleavage : on the nature of phenolic precursors in the kerogen of Estonian kukersite**

**Lille, Ülo**; Heinmaa, I.; **Müürisepp, Aleksander-Mati**; **Pehk, Tõnis** Oil shale 2002 / 2, p. 101-116 : ill

[https://www.researchgate.net/publication/288156758\\_Investigation\\_of\\_kukersite\\_structure\\_using\\_NMR\\_and\\_oxidative\\_cleavage\\_On\\_the\\_nature\\_of\\_phenolic\\_precursors\\_in\\_the\\_kerogen\\_of\\_Estonian\\_kukersite](https://www.researchgate.net/publication/288156758_Investigation_of_kukersite_structure_using_NMR_and_oxidative_cleavage_On_the_nature_of_phenolic_precursors_in_the_kerogen_of_Estonian_kukersite)

### **Investigation of the synthesis of hydroxylated cyclopentanediones**

**Niidu, Allan**; **Paju, Anne**; **Eek, Margus**; **Kanger, Tõnis**; **Pehk, Tõnis**; **Lopp, Margus** International Conference on Organic Synthesis : June 27-July 1, 2004, Riga, Latvia : program & abstracts 2004 / p. 116

### **Isomers and conformers of complexes of Ti(OiPr)<sub>4</sub> with cuclopentane-1,2-dione : NMR study and DFT calculations**

**Osadchuk, Irina**; **Pehk, Tõnis**; **Paju, Anne**; **Lopp, Margus**; **Öeren, Mario**; **Tamm, Toomas** International journal of quantum chemistry 2014 / p. 1012-1018 : ill <https://doi.org/10.1002/qua.24619> 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>

### **(2S,2'S)- ja (3S,3'S)-bimorfoliini süntees**

**Kriis, Kadri**; **Kanger, Tõnis**; **Pehk, Tõnis**; **Lopp, Margus** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 60-61

### **2-metüül-3-tsüano-tsükloheks-2-een-1-ooni süntees**

**Niidu, Allan**; Maasalu, A.; **Müürisepp, Aleksander-Mati**; **Pehk, Tõnis**; **Lopp, Margus** XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 113

### **2-metüülasetatud allüülderivaatide süntees**

Lääts, K.; **Pehk, Tõnis**; Schmidt, M.; Heinväli, M. XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 76-78: ill

### **2-metüül-pentaan-2,4-diooli dehüdratatsioon**

Lääts, K.; **Pehk, Tõnis** XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 75-76

### **Kaugmõju efektid karboksüülhapete ja nende derivaatide <sup>13</sup>C TMR spektrites**

**Pehk, Tõnis** XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 101

**Kinetic resolution of epoxy alcohols with the Sharpless Ti isopropoxide/tartaric ester complex**

**Maljutenko, Karolin; Paju, Anne; Pehk, Tõnis; Järving, Ivar; Lopp, Margus** *Balticum Organicum Syntheticum* : 3-6 July 2016, Riga, Latvia : program and abstracts 2016 / p. 112 : ill [http://www.boschem.eu/public/BOS2016/BOS-2016\\_Anstract-Book\\_Final.pdf](http://www.boschem.eu/public/BOS2016/BOS-2016_Anstract-Book_Final.pdf)

**Kinetic resolution of epoxy alcohols with the Sharpless Ti-isopropoxide/tartaric ester complex**

**Maljutenko, Karolin; Paju, Anne; Järving, Ivar; Pehk, Tõnis; Lopp, Margus** *Tetrahedron : asymmetry* 2016 / p. 608-613 : ill <https://doi.org/10.1016/j.tetasy.2016.05.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Kiraalsete C2-sümmeetriliste bisasiridiinide süntees**

**Kanger, Tõnis; Ausmees, Kerti; Pehk, Tõnis; Lopp, Margus** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 43-44

**3-alküül-1,2-tsüklopentaandioonide asümmeetriline oksüdatsioon**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 102-103

**3-asabitsüklo[3.2.0]heptaani derivaatide stereoselektiivne süntees**

**Kriis, Kadri; Pehk, Tõnis; Kanger, Tõnis; Lopp, Margus** XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 46 : ill

**3-bensüül-2,4-dihüdrosütsüklopent-2-eenoonide süntees ja asümmeetriline oksüdatsioon**

**Oja, Karolin; Paju, Anne; Pehk, Tõnis; Lopp, Margus** XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 66 : ill

**3-bensüül-2-hüdrosü-2-tsüklopenteen-1-ooni süntees ja selle asümmeetriline oksüdatsioon**

**Jõgi, Artur; Ilves, M.; Paju, Anne; Pehk, Tõnis; Lopp, Margus** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 23-24

**3-bensüüloksümetüül-1,2-tsüklopentaandiooni süntees ja asümmeetriline oksüdatsioon**

**Laos, Marit; Paju, Anne; Kanger, Tõnis; Lopp, Margus; Pehk, Tõnis** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 52-53

**3-hüdrosümetüül-1,3,6-heksaantriooli asümmeetriline süntees ja titaanikompleksi valmistamine**

**Päri, Malle; Paju, Anne; Pehk, Tõnis; Lopp, Margus** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 92-93

**Käeliste tetrahüdrofuraani analoogide süntees**

**Niidu, Allan; Paju, Anne; Kisilitsõn, Konstantin; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus** XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 104-105

**Lihtne meetod enantiomeerse trans-3,4-epoksü-1-oktüüni sünteesiks viinhappe derivaadist**

**Lopp, Margus; Kanger, Tõnis; Niidas, Piret; Pehk, Tõnis** XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 66-67

**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 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 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

#### **Läänemere vetikaplasi töenduslik kasutamine**

Vaher, M.; Truus, Kalle; Sarapuu, M.; Pehk, Tõnis; Kukk, H.; Kollist, A. XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 150

#### **Manufacture of particleboards using melamine-urea-formaldehyde resins**

Siimer, Kadri; Pehk, Tõnis; Kaljuvee, Tiit; Lasn, Ilmar; Peterson, Aleksander Polimeru chemija, fizika ir tehnologija = Polymer chemistry, physics and technology : konferencijos pranešimu medžiaga 2000 / p. 47-50 : ill

#### **Manufacturing and characterisation of Estonian urea-formaldehyde resins**

Siimer, Kadri; Christjanson, Peep; Kaljuvee, Tiit; Suurpere, Aime; Pehk, Tõnis; Saks, Imre; Lasn, Ilmar Scientific proceedings of Riga Technical University. Serija 1, Material science and applied chemistry 2007 / p. 48-55

#### **Mechanism of the asymmetric oxidation of cyclopentane-1,2-diones**

Reile, Indrek; Paju, Anne; Pehk, Tõnis; Lopp, Margus Balticum Organicum Syntheticum : International Conference on Organic Synthesis : June 29 - July 2, 2008, Vilnius : program and abstract book 2008 / p. 155

#### **Melamiinformaldehüüd-immutusvaigud**

Siimer, Kadri; Pehk, Tõnis; Vetik, Ü.; Suurpere, Aime XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 133-134

#### **Melamiin-karbamiid-formaldehüüdvaikude kõvenemisprotsessi uurimine**

Siimer, Kadri; Kaljuvee, Tiit; Christjanson, Peep; Pehk, Tõnis; Lasn, Ilmar; Saks, Imre XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 151-152

#### **Melamine-urea-formaldehyde resins for particleboards**

Siimer, Kadri; Pehk, Tõnis; Lasn, Ilmar; Peterson, Aleksander Nordic Polymer Days 1999 : Copenhagen, 31. May - 2. June 1999 1999 / p. P9

#### **Mild oxidation of substituted bicyclo[4.4.0]dec-10-en-3-one**

Aav, Riina; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus 9th Meeting on Stereochemistry : Prague, Czech Republic, June 15-18, 2001 : book of abstracts 2001 / p. 95

[https://www.researchgate.net/publication/228068775\\_OXIDATION\\_OF\\_SUBSTITUTED\\_BICYCLO440DECEN-3-ONES](https://www.researchgate.net/publication/228068775_OXIDATION_OF_SUBSTITUTED_BICYCLO440DECEN-3-ONES)

#### **Molecular model of Estonian kukersite kerogen evaluated by <sup>13</sup>C MAS NMR spectra**

Lille, Ülo; Heinmaa, I.; Pehk, Tõnis Fuel 2003 / p. 799-804 : ill <https://www.sciencedirect.com/science/article/pii/S0016236102003587>

#### **MPA in the determination of the absolute configuration of vicinal diols by NMR spectroscopy**

Ilmarinen, Kaja; Pehk, Tõnis; Lopp, Margus International Conference on Organic Synthesis : June 27-July 1, 2004, Riga, Latvia : program & abstracts 2004 / p. 87

#### **Negishi cross-coupling for the synthesis 1,2-cyclopentanediones : a short way to lycoperdic acid and its homoanalogue**

Kostomarova, Diana; Paju, Anne; Pehk, Tõnis; Lopp, Margus 8th Biennial International Conference on Organic Synthesis : Balticum Organicum Syntheticum : July 6-9, 2014, Vilnius : program and abstract book 2014 / p. 81

#### **4'-asendatud nukleosiidi analoogide süntees ja nende bioloogiline aktiivsus**

Jõgi, Artur; Jäälaid, Raissa; Paju, Anne; Pehk, Tõnis; Lopp, Margus XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 36

#### **4'-bensüül-asendatud nukleosiidi analoogide süntees**

Jõgi, Artur; Paju, Anne; Pehk, Tõnis; Siirde, K.; Lopp, Margus XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 42-43

#### **4-metüül-5,6-dekaandiooni süntees**

Lüll, M.; Paju, Anne; Pehk, Tõnis; Lopp, Margus XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 89-90

#### **New cytotoxic sterols from the soft coral *Gersemia fruticosa***

Koljak, Reet; Lopp, Annika; Pehk, Tõnis; Varvas, Külliki; Müürisepp, Aleksander-Mati; Järving, Ivar; Samel, Nigulas Tetrahedron 1998 / p. 179-186

#### **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

### **NMR study of the remote activation of the nucleophilicity of isatin imines**

**Kudrjašova, Marina; Žari, Sergei; Pehk, Tõnis; Kanger, Tõnis** 8th Biennial International Conference on Organic Synthesis : Balticum Organicum Syntheticum : July 6-9, 2014, Vilnius : program and abstract book 2014 / p. 87

### **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 / p. 7 <https://www.ttu.ee/public/k/keemia-ja-biotehnoloogia-instituut/pildid/Booklet.pdf>

### **A novel diastereoselective multicomponent cascade reaction**

**Kriis, Kadri; Ausmees, Kerti; Pehk, Tõnis; Lopp, Margus; Kanger, Tõnis** Program and abstracts : BOS 2010 International Conference on Organic Synthesis : Riga, Latvia, June 27-30, 2010 / p. 117 <https://pubs.acs.org/doi/10.1021/ol1005714>

### **A novel diastereoselective multicomponent cascade reaction**

**Kriis, Kadri; Ausmees, Kerti; Pehk, Tõnis; Lopp, Margus; Kanger, Tõnis** Organic letters 2010 / p. 2230-2233 <https://doi.org/10.1021/ol1005714>

### **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

### **Organocatalytic asymmetric synthesis of trisubstituted pyrrolidines via a cascade reaction**

**Noole, Artur; Pehk, Tõnis; Lopp, Margus; Kanger, Tõnis** BOS 2012 : International Conference on Organic Synthesis : July 1-4, 2012, Tallinn, Estonia : program and abstracts 2012 / p. 144 <https://www.sciencedirect.com/science/article/pii/S0957416612000912>

### **Organocatalytic asymmetric synthesis of trisubstituted pyrrolidines via a cascade reaction**

**Noole, Artur; Pehk, Tõnis; Järving, Ivar; Lopp, Margus; Kanger, Tõnis** Tetrahedron : asymmetry 2012 / p. 188-198 : ill <https://www.sciencedirect.com/science/article/pii/S0957416612000912>

### **Os-catalyzed dihydroxylation : an efficient method for desymmetrization of 2-allyl-2-methyl-1,3-cyclopentanedione**

**Raudla, Kristin; Lopp, Margus; Aav, Riina; Kanger, Tõnis; Pehk, Tõnis** OMCOS 13 : 13th IUPAC International Symposium on Organometallic Chemistry directed towards Organic Synthesis : 17-21 July 2005, Geneva Switzerland : book of abstracts 2005 / p. P-478

### **Otsene beeta-hüdrosüketoone asümmeetriline alfa-hüdrosüleerimine**

**Lopp, Margus; Paju, Anne; Kanger, Tõnis; Pehk, Tõnis** XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 70

### **Oxidation of 3-alkyl-1,2-cyclopentanediones : synthesis of lactone acids and spirodilactones**

**Lopp, Margus; Paju, Anne; Kanger, Tõnis; Pehk, Tõnis** 13th European Symposium on Organic Chemistry : September 10-15, 2003, Cavtat-Dubrovnik, Croatia : programme and abstracts 2003 / p. 101

### **Oxidation of cyclobutanones with the modified Sharpless catalyst**

**Kriis, Kadri; Kanger, Tõnis; Paju, Anne; Pehk, Tõnis; Lopp, Margus** 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 62

### **Oxidation of cyclobutanones with the modified Sharpless catalyst**

**Kanger, Tõnis; Kriis, Kadri; Paju, Anne; Pehk, Tõnis; Lopp, Margus** OMCOS 9 : 9th IUPAC Symposium on Organometallic Chemistry, directed towards organic synthesis : final program 1997 / p. 362

### **Oxidation of cyclobutanones with the modified sharpless catalyst. 2, Effect of chiral ligand**

**Kriis, Kadri; Kanger, Tõnis; Paju, Anne; Pehk, Tõnis; Lopp, Margus** 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 32

### **Oxidation of cyclopentane-1,2-dione: a study with <sup>18</sup>O labeled reagents**

**Reile, Indrek; Paju, Anne; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus** Tetrahedron 2011 / p. 5942-5948

### **Oxidation of cyclopentanediones**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 53

### **Oxidation of cyclopentanediones**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** 11th European Symposium on Organic Chemistry : Göteborg, Sweden, July 23-28, 1999 : programme and abstracts 1999 / p. P102

### **Oxidation of substituted bicyclo[4.4.0]decen-3-ones**

Aav, Riina; **Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** Proceedings of the Estonian Academy of Sciences. Chemistry 2001 / 3, p. 138-146 [https://artiklid.elnet.ee/record=b1007942\\*est](https://artiklid.elnet.ee/record=b1007942*est)

### **Oxidative ring cleavage of 3-hydroxyethyl-1,2-cyclopentanediones : synthesis of 4-hydroxy-[??]-lactone acids and spiro-[??]-dilactones**

**Paju, Anne; Kanger, Tõnis; Niitsoo, Olivia; Pehk, Tõnis; Müürisepp, Aleksander-Mati; Lopp, Margus** Komppa Centenary Symposium : July 6-9, 2003, Espoo, Finland : abstracts 2003 / p. A73

### **p-asendatud 3-fenüül-2-hüdroksü-2-tsüklopenteen-1-ooni derivaatide süntees ja nende asümmeetriline oksüdatsioon**

**Jõgi, Artur; Paju, Anne; Pehk, Tõnis; Lopp, Margus** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 21-22

### **PGG2 as a key intermediate in prostaglandin biosynthesis in the coral *Gersemia fruticosa***

Samel, Nigulas; **Varvas, Külliki**; Koljak, Reet; **Pehk, Tõnis; Järving, Ivar** 9th International Conference on Prostaglandins and Related Compounds, Florence, Italy, 1994 : abstract book 1994 / p. 135

### **Polüeenhapete gamma- ja delta-kaksiksidemete selektiivne taandamine = Selective reduction of gamma- and delta-double bonds in polyunsaturated fatty acids**

**Järving, Ivar**; Valmsen, Karin; **Lille, Ülo**; Lopp, Margus; **Pehk, Tõnis**; Samel, Nigulas XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 61-62  
[https://www.ester.ee/record=b1070511\\*est](https://www.ester.ee/record=b1070511*est)

### **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 / 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>

### **Prostaglandiinide biosüntees korallides**

Samel, Nigulas; **Järving, Ivar; Varvas, Külliki; Koljak, Reet; Pehk, Tõnis** Eesti Teaduste Akadeemia aastaaruanne 1994 1995 / lk. 54-55

### **Prostaglandiinide biosüntees korallides**

Samel, Nigulas; **Varvas, Külliki; Koljak, Reet; Järving, Ivar; Pehk, Tõnis** XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 125-127

### **Prostanoidide reaktsioonid ja molekulaarmodelleerimine *Candida antarctica* lipaas B aktiivtsentris**

**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

### **Pruunvetikate *Fucus vesiculosus* ja neist eraldatud alginaatide kompleksuuring**

Truus, Kalle; **Vaher, Merike**; Saal, K.; Lõhmus, A.; **Pehk, Tõnis** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 145

### **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>

### **Rearrangement of 1,4-dihydroxy-2-cyclopentenones**

Allikmaa, Veiko; **Paju, Anne; Pehk, Tõnis; Õpik, Andres; Lopp, Margus** International Conference on Organic Synthesis : Vilnius, 2000, June 26-29 : program and abstracts 2000 / p. 31

### **Red algal galactans: nature-reserving isolation, analysis and possible applications in nanotechnology**

Tuvikene, Rando; Truus, Kalle; **Kallavus, Urve; Vaher, Merike; Pehk, Tõnis** Conference on Knowledge-based Materials and Technologies for Sustainable Chemistry : 1-5 June 2005, Tallinn, Estonia : abstract book 2005 / p. 120 : ill

### **Regio- and stereoselective synthesis of chiral dihydroxyketones**

**Niidu, Allan; Paju, Anne; Eek, Margus; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** Komppa Centenary Symposium : July 6-9, 2003, Espoo, Finland : abstracts 2003 / p. A70

### **Remote activation of isatin for efficient asymmetric aza-Michael reactions**

**Žari, Sergei; Kudrjašova, Marina; Ilmarinen, Kaja; Pehk, Tõnis; Kanger, Tõnis** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid

**Remote activation of the nucleophilicity of isatin**

**Žari, Sergei; Kudrjašova, Marina; Pehk, Tõnis; Lopp, Margus; Kanger, Tõnis** Organic letters 2014 / p. 1740-1743 : ill  
<https://doi.org/10.1021/ol500421k> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Resool-tüüpi fenool-formaldehüüdvaikude struktuuri tekkemehhanismi uurimine leelise sisalduse muutumisel**

**Paju, Jane; Pehk, Tõnis; Christjanson, Peep** XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 109-110

**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](#)

**A short enantioselective synthesis of homocitric acid [gamma]lactone and 4-hydroxyhomocitric acid [gamma]lactones**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Eek, Margus; Lopp, Margus** International Conference on Organic Synthesis : June 27- July 1, 2004, Riga, Latvia : program & abstracts 2004 / p. 118

**A short enantioselective synthesis of homocitric acid-[gamma]-lactone and 4-hydroxy-homocitric acid-[gamma]-lactones**

**Paju, Anne; Kanger, Tõnis; Pehk, Tõnis; Eek, Margus; Lopp, Margus** Tetrahedron 2004 / p. 9081-9084  
<https://www.sciencedirect.com/science/article/abs/pii/S0040402004012736>

**Short synthesis of novel 9,11-secosterols**

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>

**Shortfall of B3LYP in reproducing NMR JCH couplings in some isomeric epoxy structures with strong stereoelectronic effects : a benchmark study on DFT functionals**

**Adamson, Jasper; Nazarski, Ryszard B.; Jarvet, Jüri; Pehk, Tõnis; Aav, Riina** ChemPhysChem 2018 / p. 631-642 : ill  
<https://doi.org/10.1002/cphc.201701125> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Sonogashira cross-coupling of 3-bromo-1,2-diones : an access to 3-alkynyl-1,2-diones**

**Paju, Anne; Kanger, Tõnis; Müürisepp, Aleksander-Mati; Aid, Tiina; Pehk, Tõnis; Lopp, Margus** Tetrahedron 2014 / p. 5843-5848 : ill <https://doi.org/10.1016/j.tet.2014.06.037> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Stereoselective synthesis of 1-methyl-1,2-and 1,3-cyclopentanediois via  $\gamma$ -lactones**

Niidu, Allan; **Paju, Anne; Müürisepp, Aleksander-Mati; Järving, Ivar; Kailas, Tiit; Pehk, Tõnis; Lopp, Margus** Chemistry of heterocyclic compounds 2013 / p. 1751-1760 : ill <https://doi.org/10.1007/s10593-013-1206-4> [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](#)

**Structural and compositional characteristics of gelling galactan from the red alga Ahnfeltia tobuchiensis (Ahnfeltiales, the sea of Japan)**

Truus, Kalle; Tuvikene, Rando; **Vaher, Merike; Kailas, Tiit; Toomik, Peeter; Pehk, Tõnis** Carbohydrate polymers 2005 / [6] p. : ill. [ilmumas?]  
[https://www.researchgate.net/publication/229420426\\_Structural\\_and\\_compositional\\_characteristics\\_of\\_gelling\\_galactan\\_from\\_the\\_red\\_alga\\_Ahnfeltia\\_tobuchiensis\\_Ahnfeltiales\\_the\\_Sea\\_of\\_Japan](https://www.researchgate.net/publication/229420426_Structural_and_compositional_characteristics_of_gelling_galactan_from_the_red_alga_Ahnfeltia_tobuchiensis_Ahnfeltiales_the_Sea_of_Japan)

**Structural and compositional characteristics of gelling galactan from the red alga Ahnfeltia tobuchiensis (Ahnfeltiales, the Sea of Japan)**

Truus, Kalle; Tuvikene, Rando; **Vaher, Merike; Kailas, Tiit; Toomik, Peeter; Pehk, Tõnis** Carbohydrate polymers 2006 / p. 130-135 : ill [https://www.sciencedirect.com.translate.goog/science/article/abs/pii/S0144861705003759?\\_x\\_tr\\_sl=en&\\_x\\_tr\\_tl=et&\\_x\\_tr\\_hl=et&\\_x\\_tr\\_pto=sc](https://www.sciencedirect.com.translate.goog/science/article/abs/pii/S0144861705003759?_x_tr_sl=en&_x_tr_tl=et&_x_tr_hl=et&_x_tr_pto=sc)

**Structural changes in melamine - formaldehyde resins during storage**

**Siimer, Kadri; Suurpere, Aime; Pehk, Tõnis** Polimeru chemija, fizika ir tehnologija = Polymer chemistry, physics and technology : konferencijos pranešimu medžiaga 2000 / p. 51-54 : ill

**Structural changes in urea-formaldehyde resins during storage**

**Christjanson, Peep; Siimer, Kadri; Pehk, Tõnis; Lasn, Ilmar Holz als Roh- und Werkstoff** 2002 / p. 379-384

**Structural changes of starch during baking and staling of rye bread**

Mihhalevski, Anna; Heinmaa, Ivo; Traksmäa, Rainer; Pehk, Tõnis; Mere, Arvo; Paalme, Toomas Journal of agricultural and food chemistry 2012 / p. 8492-8500 : ill <https://pubs.acs.org/doi/10.1021/jf3021877>

**Structural constraints for C2-symmetric heterocyclic organocatalysts in asymmetric aldol reactions**

Laars, Marju; Kriis, Kadri; Kailas, Tiit; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Kanger, Tõnis; Lopp, Margus Tetrahedron : asymmetry 2008 / p. 641-645 [https://www.researchgate.net/publication/244242681\\_Structural\\_constraints\\_for\\_C\\_2-symmetric\\_heterocyclic\\_organocatalysts\\_in\\_asymmetric\\_aldol\\_reactions](https://www.researchgate.net/publication/244242681_Structural_constraints_for_C_2-symmetric_heterocyclic_organocatalysts_in_asymmetric_aldol_reactions)

**Structural deviations in poly(amidoamine) dendrimers : a MALDI-TOF MS analysis**

Peterson, Janek; Allikmaa, Veiko; Subbi, J.; Pehk, Tõnis; Lopp, Margus European polymer journal 2003 / p. 33-42 : ill <https://www.sciencedirect.com/science/article/abs/pii/S001430570200188X>

**Structuration process of urea-formaldehyde resins during storage**

Christjanson, Peep; Siimer, Kadri; Pehk, Tõnis POLYCHAR World Forum on Polymer Applications and Theory : POLYCHAR-10, January 8-11, 2002 & Short Course, January 7, 2002 : program and book of abstracts 2002 / p. 85

**Structure and curing mechanism of resol phenol-formaldehyde prepolymer resins**

Christjanson, Peep; Pehk, Tõnis; Paju, Jane Proceedings of the Estonian Academy of Sciences 2010 / 3, lk. 225-232 : ill

**Structure and thermal stability of pyruvated carrageenans from the red alga *Coccolytus truncatus***

Tuvikene, Rando; Truus, Kalle; Robal, Marju; Pehk, Tõnis; Kailas, Tiit; Vaher, Merike; Paalme, Tiina Carbohydrate research 2009 / p. 788-794 : ill <https://www.sciencedirect.com/science/article/pii/S0008621509000366>

**Structure formation in urea-formaldehyde resin synthesis**

Christjanson, Peep; Pehk, Tõnis; Siimer, Kadri Proceedings of the Estonian Academy of Sciences. Chemistry 2006 / 4, p. 212-225 : ill

**Structure of modern urea-formaldehyde resins**

Siimer, Kadri; Pehk, Tõnis; Pihlapuu, U. 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 67

**Structure of phenol-formaldehyde polycondensates**

Paju, Jane; Pehk, Tõnis; Christjanson, Peep Proceedings of the Estonian Academy of Sciences 2009 / 1, p. 45-52

**Structure of polycondensates from hydroxymethylphenols**

Christjanson, Peep; Pehk, Tõnis; Siimer, Kadri; Paju, Jane Journal of applied polymer science 2008 / 2, p. 1226-1234 : ill [https://www.researchgate.net/publication/243894123\\_Structure\\_of\\_polycondensates\\_from\\_hydroxymethylphenols](https://www.researchgate.net/publication/243894123_Structure_of_polycondensates_from_hydroxymethylphenols)

**Structure of polycondensates from hydroxymethylphenols**

Christjanson, Peep; Pehk, Tõnis; Siimer, Kadri; Paju, Jane Journal of applied polymer science 2007 / 2, p. 1226-1234

**Studies on the structure of melamine-formaldehyde condensates by <sup>13</sup>C NMR spectroscopy**

Siimer, Kadri; Pehk, Tõnis; Christjanson, Peep Abstracts of Finnish Chemical Congress and Exhibition 2000 / p. 16

**Study of the structural changes in urea-formaldehyde condensates during synthesis**

Siimer, Kadri; Pehk, Tõnis; Christjanson, Peep Macromolecular symposia 1999 / December, 7th International Conference on Polymer Characterization (POLYCHAR-7), p. 149-156 : ill

**Suurendatud niiskuskindlusega puitlaastplaatide valmistamine**

Siimer, Kadri; Pehk, Tõnis; Kaljuvee, Tiit; Lasn, Ilmar; Peterson, Aleksander XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 160-161

**Synthesis and antiproliferative activity of 15-oxoprostaglandins : contribution of the W-chain enone group to cytotoxicity**

Lopp, Margus; Lopp, Annika; Paju, Anne; Lille, Ülo; Pehk, Tõnis Bioorganic & medicinal chemistry letters 1994 / 14, p. 1739-1744: ill

**Synthesis and biological activity of bimorpholine and its carbanucleoside**

Ausmees, Kerti; Selyutina, Anastasia; Kütt, Kristel; Lippur, Kristin; Pehk, Tõnis; Lopp, Margus; Žusinaite, Eva; Merits, Andres; Kanger, Tõnis Nucleosides, nucleotides and nucleic acids 2011 / p. 897-907 <https://www.tandfonline.com/doi/full/10.1080/15257770.2011.621919>

**Synthesis and derivatization of bis-nor Wieland-Miescher ketone**

Kanger, Tõnis; Raudla, Kristin; Aav, Riina; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus Synthesis 2005 / p. 3147-3151 <https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-2005-916025>

### **Synthesis and MALDI TOF characterization of EDA core-polyamidoamine (PAMAM)- dendrimers by MALDI-TOF MS analysis**

Peterson, Janek; Allikmaa, Veiko; Subbi, Juhan; Suurpere, Jaak; **Pehk, Tõnis; Lopp, Margus** International Conference on Organic Synthesis : Vilnius, 2000, June 26-29 : program and abstracts 2000 / p. [65]

### **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 1-methylbicyclo[3.3.0]octane-3,4,8-trione**

**Raudla, Kristin; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** International Conference on Organic Synthesis : June 27-July 1, 2004, Riga, Latvia : program & abstracts 2004 / p. 122

### **Synthesis of (2S,2''S)- and (3S,3''S)-bimorpholine**

**Kriis, Kadri; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** International Conference on Organic Synthesis : BOS 2002, Vilnius 2002 / p. P036

### **Synthesis of (2S,2'S)-and (3R,3'R)-bimorpholine**

**Kriis, Kadri; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** 9th Meeting on Stereochemistry : Prague, Czech Republic, June 15-18, 2001 : book of abstracts 2001 / p. 143

### **Synthesis of (2s,2'S)-bimorpholine**

**Kriis, Kadri; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** Proceedings of the Estonian Academy of Sciences. Chemistry 2001 / 3, p. 173-179

### **Synthesis of (2S,2'S)-bimorpholine N,N'-quaternary salts as chiral phase transfer catalysts**

**Lippur, Kristin; Kanger, Tõnis; Kriis, Kadri; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Lopp, Margus** Tetrahedron: asymmetry 2007 / p. 137-141

### **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 3-hydroxymethyl-1,3,6-hexanetriol from chiral spirodilactone**

**Päri, Malle; Lüll, M.; Paju, Anne; Pehk, Tõnis; Lopp, Margus** International Conference on Organic Synthesis : Tallinn, Estonia, June 25-29, 2006 : program and abstracts 2006 / p. 129

### **Synthesis of 3-phenyl-2-hydroxy-2-cyclopenten-1-ones and their asymmetric oxidation**

**Jõgi, Artur; Paju, Anne; Pehk, Tõnis; Müürisepp, Aleksander-Mati; Kailas, Tiiu; Lopp, Margus** International Conference on Organic Synthesis : Tallinn, Estonia, June 25-29, 2006 : program and abstracts 2006 / p. 100

### **Synthesis of 3-substituted 1,2-cyclopentanediones via palladium-catalyzed cross-coupling reactions**

**Paju, Anne; Kostomarov, Diana; Pehk, Tõnis; Lopp, Margus** BOS 2012 : International Conference on Organic Synthesis : July 1-4, 2012, Tallinn, Estonia : program and abstracts 2012 / p. 151

### **Synthesis of 4'-aryl-2',3'-dideoxynucleoside analogues**

**Jõgi, Artur; Paju, Anne; Pehk, Tõnis; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Lopp, Margus** Tetrahedron 2009 / p. 2959-2965 <https://www.sciencedirect.com/science/article/abs/pii/S0040402009001914>

### **Synthesis of 4'-substituted 2',3'-dideoxynucleoside analogues**

**Jõgi, Artur; Paju, Anne; Pehk, Tõnis; Lopp, Margus** Balticum Organicum Synthetium : International Conference on Organic Synthesis : June 29 - July 2, 2008, Vilnius : program and abstract book 2008 / p. 97 <https://www.sciencedirect.com/science/article/pii/S0040402009001914>

### **Synthesis of 5,5'-disubstituted biomorpholines**

**Lippur, Kristin; Elmers, Cindy; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Kanger, Tõnis; Lopp, Margus** Synthetic communications 2010 / p. 266-281

### **Synthesis of 5,5'-disubstituted biomorpholines**

**Lippur, Kristin; Elmers, Cindy; Kailas, Tiiu; Müürisepp, Aleksander-Mati; Pehk, Tõnis; Kanger, Tõnis; Lopp, Margus** Synthetic communications 2009 / p. 1-16

### **Synthesis of antithrombotic diamine**

**Peterson, Jaak**; Allikmaa, Veiko; **Pehk, Tõnis**; **Lopp, Margus** 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 56

#### **Synthesis of bensofuroxan-4-carboxylic acid**

Schmidt, M.; Eek, Margus; **Pehk, Tõnis**; **Lopp, Margus** 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 66

#### **Synthesis of bicyclo[3.3.0]octanes - interdediates for substituted cyclopentanes**

**Aav, Riina**; **Kanger, Tõnis**; **Pehk, Tõnis**; **Lopp, Margus** 15th European Symposium on Organic Chemistry : ESOC15 : 8-13 July 2007, Dublin (Ireland) : abstracts 2007 / p. 65

#### **Synthesis of chiral C2-symmetric bisaziridines**

**Kanger, Tõnis**; Ausmees, Kerti; **Pehk, Tõnis**; **Lopp, Margus** International Conference on Organic Synthesis : BOS 2002, Vilnius 2002 / p. P032

#### **Synthesis of chiral enantioenriched tetrahydrofuran derivatives**

Niidu, Allan; Paju, Anne; Müürisepp, Aleksander-Mati; Kailas, Tiiu; **Pehk, Tõnis**; **Lopp, Margus** Arkivoc 2009 / XIV, p. 39-52  
<https://www.arkat-usa.org/get-file/32420/>

#### **Synthesis of chiral epoxyalkynes**

**Kanger, Tõnis**; Niidas, Piret; Müürisepp, Aleksander-Mati; **Pehk, Tõnis**; **Lopp, Margus** Tetrahedron : asymmetry 1998 / p. 2499-2508

#### **Synthesis of chiral FHF-analogues**

**Niidu, Allan**; Kislitsõn, Konstantin; **Paju, Anne**; **Kailas, Tiiu**; **Müürisepp, Aleksander-Mati**; **Pehk, Tõnis**; **Lopp, Margus** Balticum Organicum Syntheticum : International Conference on Organic Synthesis : June 29 - July 2, 2008, Vilnius : program and abstract book 2008 / ? p

#### **Synthesis of chiral hydroxylated cyclopentanones and cyclopentanes**

**Niidu, Allan**; **Paju, Anne**; **Eek, Margus**; **Müürisepp, Aleksander-Mati**; **Pehk, Tõnis**; **Lopp, Margus** Tetrahedron : asymmetry 2006 / 18, p. 2678-2683 <https://www.sciencedirect.com/science/article/pii/S0957416606006653>

#### **Synthesis of cyclopentane hydroxy derivatives**

Niidu, Allan; **Paju, Anne**; **Kailas, Tiiu**; **Müürisepp, Aleksander-Mati**; **Pehk, Tõnis**; **Lopp, Margus** BOS 2012 : International Conference on Organic Synthesis : July 1-4, 2012, Tallinn, Estonia : program and abstracts 2012 / p. 142

#### **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 : Itaaliala, Giardini Naxos, 02.-05.10.2011 2011

#### **Synthesis of N,N'-disubstituted (2S,2'S)-bimorpholine**

**Raudla, Kristin**; **Kanger, Tõnis**; **Pehk, Tõnis**; **Müürisepp, Aleksander-Mati**; **Lopp, Margus** International Conference on Organic Synthesis : Tallinn, Estonia, June 25-29, 2006 : program and abstracts 2006 / p. 138

#### **Synthesis of new N,N,N',N'-tetrasubstituted derivatives of R,R-tartaric acid**

**Ilmarinen, Kaja**; **Allikmaa, Veiko**; **Pehk, Tõnis**; **Lopp, Margus** International Conference on Organic Synthesis : Tallinn, Estonia, June 25-29, 2006 : program and abstracts 2006 / p. 97

#### **Synthesis of new N-tetrasubstituted derivates of R,R-tartaric acid and their use as chiral ligands in oxidation catalysts**

**Ilmarinen, Kaja**; **Kriis, Kadri**; **Paju, Anne**; **Pehk, Tõnis**; **Lopp, Margus** Proceedings of the Estonian Academy of Sciences. Chemistry 2001 / 3, p. 147-155

#### **Synthesis of novel acyclic nucleoside analogues**

**Päri, Malle**; **Paju, Anne**; **Pehk, Tõnis**; **Siirde, K.**; **Lopp, Margus** Balticum Organicum Syntheticum : International Conference on Organic Synthesis : June 29 - July 2, 2008, Vilnius : program and abstract book 2008 / p. 145

#### **Synthesis of novel acyclic nucleoside analogues with anti-retroviral activity**

**Paju, Anne**; **Päri, M.**; **Selyutina, Anastasia**; **Žusinaite, Eva**; **Merits, Andres**; **Pehk, Tõnis**; **Siirde, Kaarel**; **Müürisepp, Aleksander-Mati**; **Kailas, Tiiu**; **Lopp, Margus** Nucleosides, nucleotides and nucleic acids 2010 / 9, p. 707-720  
<https://www.tandfonline.com/doi/pdf/10.1080/15257770.2010.501776>

#### **Synthesis of substituted cyclopentanones from 2-oxabicyclo[3.3.0]oct-6-en-3-one**

**Aav, Riina; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** Proceedings of the Estonian Academy of Sciences. Chemistry 2007 / 1, p. 3-13

**Synthesis of zwitterionic dopamine sulfonate coated cubic core-Fe@SiO<sub>2</sub> nanoparticles and their magnetic properties analysis**

**Volokhova, Maria;** Boldin, Aleksei; Link, Joosep; Shugai, Anna; Pehk, Tõnis; Stern, Raivo; Seinberg, Liis Materials 2023 / 6 p. : ill

**Synthesis of the 9,11-secoesterol from ergosterol**

Jäälaid, Raissa; **Pehk, Tõnis; Lille, Ülo** 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 24

**Synthesis of the AB-ring of 9,11-secoesterol**

**Aav, Riina; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** 11th European Symposium on Organic Chemistry : Göteborg, Sweden, July 23-28, 1999 : programme and abstracts 1999 / p. P1 [https://www.researchgate.net/publication/228068773\\_Synthesis\\_of\\_the\\_AB-Ring\\_of\\_911-Secosterols](https://www.researchgate.net/publication/228068773_Synthesis_of_the_AB-Ring_of_911-Secosterols)

**Synthesis of the AB-ring of 9,11-secoesterols**

**Aav, Riina; Kanger, Tõnis; Pehk, Tõnis; Lopp, Margus** Synlett 2000 / No. 4, p. 529-531  
[https://www.researchgate.net/publication/228068773\\_Synthesis\\_of\\_the\\_AB-Ring\\_of\\_911-Secosterols](https://www.researchgate.net/publication/228068773_Synthesis_of_the_AB-Ring_of_911-Secosterols)

**Synthesis of vicinal amino alcohols from tartaric ester**

Ausmees, Kerti; Kulper, Kärt; **Pehk, Tõnis; Kanger, Tõnis; Lopp, Margus** International Conference on Organic Synthesis : June 27-July 1, 2004, Riga, Latvia : program & abstracts 2004 / p. 54

**TG-DTA study of melamine-urea-formaldehyde resins**

**Siimer, Kadri; Kaljuvee, Tiit; Christjanson, Peep; Pehk, Tõnis;** Lasn, Ilmar; Saks, Imre Book of abstracts : MEDICTA 2007 : the 8th Mediterranean Conference on Calorimetry and Thermal Analysis : September 25th - September 29th, 2007, Palermo, Italy 2007 / p. 180 <https://link.springer.com/content/pdf/10.1007/s10973-007-8721-4.pdf>

**TG-DTA study of melamine-urea-formaldehyde resins**

**Siimer, Kadri; Christjanson, Peep; Kaljuvee, Tiit; Pehk, Tõnis;** Lasn, Ilmar; Saks, Imre Journal of thermal analysis and calorimetry 2008 / 1, p. 19-27 : ill <https://link.springer.com/article/10.1007/s10973-007-8721-4>

**The addition of sulfur dichloride to bicyclo[2.2.1]hept-2-ene and to bicyclo[2.2.2]oct-2-ene**

Bobylova, A.A.; Anfilogova, S.N.; Belikova, N.A.; **Pehk, Tõnis;** Anisimov, A.V. Sulfur letters 1999 / 2, p. 51-55

**The extraction, structure, and gelling properties of hybrid galactan from the red alga *Furcellaria lumbricalis* (Balti Sea, Estonia)**

Tuvikene, Rando; Truus, Kalle; Robal, Marju; **Volobujeva, Olga; Mellikov, Enn; Pehk, Tõnis;** Kollist, Andres; **Kailas, Tiit; Vaher, Merike** Journal of applied phycology 2009 / [13] p.: ill <https://link.springer.com/article/10.1007/s10811-009-9425-x>

**The extraction, structure, and gelling properties of hybrid galactan from the red alga *Furcellaria lumbricalis* (Baltic Sea, Estonia)**

Tuvikene, Rando; Truus, Kalle; Robal, Marju; **Volobujeva, Olga; Mellikov, Enn; Pehk, Tõnis;** Kollist, Andres; **Kailas, Tiit; Vaher, Merike** Journal of applied phycology 2010 / p. 51-63 : ill <https://link.springer.com/article/10.1007/s10811-009-9425-x>

**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 origin of 15R-prostaglandins in the Caribbean coral *Plexaura homomalla* : molecular cloning and expression of a novel cyclooxygenase**

**Valmsen, Karin; Järving, Ivar;** Boeglin, William E.; **Varvas, Külliki; Koljak, Reet; Pehk, Tõnis;** Brash, Alan R.; Samel, Nigulas Proceedings of the National Academy of Sciences of the United States of America 2001 / 14, p. 7700-7705  
<https://www.pnas.org/doi/full/10.1073/pnas.131022398>

**The synthesis and asymmetric oxidation of 3-benzyl-2,4-dihydroxycyclopent-2-enones**

**Oja, Karolin; Paju, Anne;** Pehk, Tõnis; **Lopp, Margus** BOS 2012 : International Conference on Organic Synthesis : July 1-4, 2012, Tallinn, Estonia : program and abstracts 2012 / p. 148

**The synthesis and epoxidation of allylic cyclopentenols**

**Oja, Karolin; Paju, Anne;** Pehk, Tõnis; **Lopp, Margus** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p. : ill

**The synthesis and epoxidation of allylic cyclopentenols**

**Oja, Karolin; Paju, Anne;** Pehk, Tõnis; **Lopp, Margus** 8th Biennial International Conference on Organic Synthesis : Balticum Organicum Syntheticum : July 6-9, 2014, Vilnius : program and abstract book 2014

### **The synthesis of 4'-substituted nucleoside analogues and their biological activity**

**Jõgi, Artur; Jäälaid, Raissa; Paju, Anne; Pehk, Tõnis; Lopp, Margus** Program and abstracts : BOS 2010 International Conference on Organic Synthesis : Riga, Latvia, June 27-30, 2010 2010 / p. P059

### **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>

### **The use of long range effects in <sup>13</sup>C NMR spectra of carboxylic acids and their derivatives**

**Pehk, Tõnis** 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 111

### **Theoretical prediction and assignment of vicinal <sup>1</sup>H–<sup>1</sup>H 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>

### **Thermal behaviour of hydroxymethyl compounds as models for adhesive resins**

**Siimer, Kadri; Christjanson, Peep; Kaljuvee, Tiit; Pehk, Tõnis; Saks, Imre** Journal of thermal analysis and calorimetry 2009 / p. 459-466 : ill <https://link.springer.com/article/10.1007/s10973-009-0218-x>

### **Thermal behaviour of hydroxymethyl compounds as models for adhesive resins [Electronic resource]**

**Siimer, Kadri; Kaljuvee, Tiit; Christjanson, Peep; Pehk, Tõnis; Saks, Imre** 14th International Congress on Thermal Analysis and Calorimetry . VI Brazilian Congress on Thermal Analysis and Calorimetry : September 14-18, 2008, Sao Pedro, Brazil 2008 / p. D-06 [CD-ROM] <https://link.springer.com/article/10.1007/s10973-009-0218-x>

### **Thermal behaviour of melamine-modified urea-formaldehyde resins**

**Siimer, Kadri; Kaljuvee, Tiit; Pehk, Tõnis; Lasn, Ilmar** Journal of thermal analysis and calorimetry 2010 / 3, p. 755-762 : ill <https://akjournals.com/view/journals/10973/99/3/article-p755.xml>

### **Thermal behaviour of melamine-urea-formaldehyde resins**

**Siimer, Kadri; Süld, Tiia-Maaja; Christjanson, Peep; Kaljuvee, Tiit; Pehk, Tõnis; Lasn, Ilmar** XXVIII National Conference on Calorimetry, Thermal Analysis and Chemical Thermodynamics : Milan, Italy, December 11-15, 2006 2006 / p. 90

### **Thermal behaviour of stored aminoresins**

**Siimer, Kadri; Kaljuvee, Tiit; Christjanson, Peep; Pehk, Tõnis** Programme and proceedings of Baltic Polymer Symposium 2004 : Kaunas, November 24-26, 2004 2004 / p. 86

### **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](#)

### **3-Alkyl-1,2-cyclopentanediones by Negishi cross-coupling of a 3-bromo-1,2-cyclopentanedione silyl enol ether with alkylzinc reagents : an approach to 2-substituted carboxylic acid $\gamma$ -lactones, homocitric and lycoperdic acids**

**Paju, Anne; Kostomarov, Diana; Matkevits, Katharina; Laos, Marit; Pehk, Tõnis; Kanger, Tõnis; Lopp, Margus** Tetrahedron 2015 / p. 9313-9320 : ill <https://doi.org/10.1016/j.tet.2015.10.014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **3-Chlorooxindoles : versatile starting materials for asymmetric organocatalytic synthesis of spirooxindoles**

**Noole, Artur; Ošeka, Maksim; Pehk, Tõnis; Öeren, Mario; Järving, Ivar; Elsegood, Mark R. J.; Malkov, Andrei; Lopp, Margus; Kanger, Tõnis** Advanced synthesis and catalysis 2013 / p. 829-835 : ill [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Titanium(IV) acetylacetonate xerogels for processing titania films : structure and thermal analysis [Electronic resource]**

**Oja Acik, Ilona; Madarasz, Janos; Heinamaa, Ivo; Pehk, Tõnis; Tõnsuaadu, Kaia; Krunk, Malle; Pokol, György; Niinistö, Lauri** 14th International Congress on Thermal Analysis and Calorimetry . VI Brazilian Congress on Thermal Analysis and Calorimetry : September 14-18, 2008, Sao Pedro, Brazil 2008 / p. OP-C06 [CD-ROM] <https://link.springer.com/article/10.1007/s10973-008-9647-1>

### **Towards the total synthesis of 9,11-secoosterol: Linking A,B- and D-rings with Michael addition to sulfone-activated cyclopentenone**

**Kõllo, Marek; Rõuk, Kristi; Järving, Ivar; Pehk, Tõnis; Lopp, Margus** Tetrahedron 2023 / art. 133363 : ill <https://doi.org/10.1016/j.tet.2023.133363> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Transformation of ergosterol towards 9,11-secoosterols**

**Jäälaid, Raissa; Veressinina, Jelena; Järving, Ivar; Pehk, Tõnis; Lille, Ülo** 23rd Estonian Chemistry Days : abstracts of scientific

**Tromboksaan A2 w-küllastatud 7-bitsüklo[2.2.1]heptaan-analoogide süntees**

Paju, Anne; **Pehk, Tõnis**; Lopp, Margus XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 101-103

**Tsükliliste ketoonide võrdlev Baeyer-Villiger'i asümmeetriline oksüdeerimine**

Kriis, Kadri; **Kanger, Tõnis**; Paju, Anne; Ilmarinen, Kaja; **Pehk, Tõnis**; **Lopp, Margus** XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 58-59

**1,2-tsükloalkaandioonide asümmeetriline oksüdatsioon**

Paju, Anne; **Kanger, Tõnis**; **Pehk, Tõnis**; **Lopp, Margus** XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 124-125

**Tsüklobutanoonide oksüdatsioon Sharplessi modifitseeritud reagentiga**

**Kriis, Kadri**; **Kanger, Tõnis**; Paju, Anne; **Pehk, Tõnis**; **Lopp, Margus** XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 56

**Tsüklopentaan-1,2-dioolide aeroobne oksüdeerimine tsüklopentaan-1,2-dioonideks Pt/C katalüsaatoril**

**Reile, Indrek**; Paju, Anne; Eek, Margus; **Pehk, Tõnis**; **Lopp, Margus** XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 130-131

**(2'-5')-oligoadenylate synthetase in marine sponge : identification of its reaction products**

Kuuskalu, Anne; Subbi, J.; **Pehk, Tõnis**; Reintamm, Tõnu; Müller, W.E.G.; **Kelve, Merike** European journal of biochemistry 1998 / p. 420-426

**(2'-5')-oligoadenylate system in marine sponges**

Kuuskalu, Anne; Subbi, J.; **Pehk, Tõnis**; Reintamm, Tõnu; **Kelve, Merike** European cytokine network 1998 / p. 326

**(2R,2'R)- ja (3S,3'S)-bimorfoliini süntees**

Kriis, Kadri; **Kanger, Tõnis**; **Pehk, Tõnis**; **Lopp, Margus** XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 62-63

**Unexpected direction of the reaction of ethyl 2-(diethylphosphono)propionate with 2,2-disubstituted-1,3-cyclopentanediones**

**Aav, Riina**; **Kanger, Tõnis**; **Pehk, Tõnis**; **Lopp, Margus** International Conference on Organic Synthesis : June 27-July 1, 2004, Riga, Latvia : program & abstracts 2004 / p. 53

**Unexpected reactivity of ethyl 2-(diethylphosphono)propionate toward 2,2-disubstituted-1,3-cyclopentanediones**

**Aav, Riina**; **Kanger, Tõnis**; **Pehk, Tõnis**; **Lopp, Margus** Phosphorus, sulfur and silicon 2005 / p. 1739-1748  
<https://www.tandfonline.com/doi/full/10.1080/10426500590885309>

**Universaalne <sup>13</sup>C TMR spektroskoopiaal baseeruv meetod orgaaniliste hapete dissotsiatsioonikonstantide võrdlevaks määramiseks = An universal <sup>13</sup>C NMR method for the comparative analysis of acid-base equilibria**

**Pehk, Tõnis** XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 145-146 [https://www.ester.ee/record=b1070511\\*est](https://www.ester.ee/record=b1070511*est)

**Unsubstituted oxacalix[n]arenes (n=4 and 8): a conformational study in solution and solid state and interaction studies with aromatic guests**

**Peterson, Anna**; **Kaabel, Sandra**; **Kahn, Iiris**; **Pehk, Tõnis**; **Aav, Riina**; Adamson, Jasper ChemistrySelect 2018 / p. 9091 - 9095  
<https://doi.org/10.1002/slct.201801590> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Urea-formaldehyde resins for low formaldehyde emission particleboards**

**Siimer, Kadri**; **Kaljuvee, Tiit**; **Christjanson, Peep**; **Pehk, Tõnis**; Lasn, Ilmar; Saks, Imre PPS-24 : The Polymer Processing Society 24th Annual Meeting : June 15-19, 2008, Salerno, Italy : book of abstracts 2008 / p. II.478

**Urea-formaldehyde resins for low formaldehyde emission particleboards [Electronic resource]**

**Siimer, Kadri**; **Kaljuvee, Tiit**; **Christjanson, Peep**; **Pehk, Tõnis**; Lasn, Ilmar; Saks, Imre PPS-24 : The Polymer Processing Society 24th Annual Meeting : June 15-19, 2008, Salerno, Italy : program and proceedings 2008 / [7] p. : ill. [CD-ROM]

**Urea-formaldehyde resins in Estonia : manufacturing and characterisation**

**Siimer, Kadri**; **Christjanson, Peep**; **Pehk, Tõnis**; **Kaljuvee, Tiit**; **Suurpere, Aime**; O'Brock, D.; Saks, Imre; Lasn, Ilmar Baltic Polymer Symposium 2006 : September 20-22, 2006 : programme and proceedings 2006 / p. 83

**Uued tsütotoksilised 15-oksoprostaglandiinid : süntees ja antiproliferatiivne aktiivsus inimese leukeemia K562 rakuliinil**

Lopp, Annika; Paju, Anne; **Pehk, Tõnis**; Lopp, Margus XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 67-70

**Uued tsütotoksilised steroidid korallist *Gersemia fruticosa* = New cytotoxic sterols from the soft coral *Gersemia fruticosa* Koljak, Reet**; Lopp, Annika; **Pehk, Tõnis**; **Varvas, Külliki**; **Järving, Ivar**; Samel, Nigulas XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 81-82  
[https://www.ester.ee/record=b1070511\\*est](https://www.ester.ee/record=b1070511*est)

#### **Uute atsükliliste nukleosiidanalogoide süntees**

**Päri, Malle**; Paju, Anne; **Pehk, Tõnis**; Siirde, K.; **Lopp, Margus** XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 125-126

#### **Uute N,N,N',N'-tetraasendatud R,R-viinhappe derivaatide süntees**

**Ilmarinen, Kaja**; **Allikmaa, Veiko**; Ivanova, A.; **Pehk, Tõnis**; **Lopp, Margus** XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 40-41

#### **Vetikapolüsahhariidide termostabiilsus : struktuur-omadus seosed**

Robal, Marju; Tuvikene, Rando; Truus, Kalle; **Volobujeva, Olga**; **Mellikov, Enn**; Pehk, Tõnis XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 19 : ill

#### **9,11-sekosterooli AB-ringi süntees**

**Aav, Riina**; **Kanger, Tõnis**; **Pehk, Tõnis**; **Lopp, Margus** XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 12-13

#### **1aH-oksireno[3,4]tsüklopenta[1,2-b]furaanide diastereoisomeeride ruumilise struktuuri määramine**

**Aav, Riina**; **Pehk, Tõnis**; **Lopp, Margus** XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 12-13 [https://www.ester.ee/record=b2314480\\*est](https://www.ester.ee/record=b2314480*est)

#### **Исследование структуры некоторых фенолформальдегидных смол методами ИК-спектроскопии и спектроскопии ЯМР<sup>13</sup>C**

**Lippmaa, Helle**; Pehk, Tõnis; **Kiisler, Karl**; **Christjanson, Peep** Республиканская научная конференция "Фенолформальдегидные смолы и клеи на их основе" : тезисы докладов 1974 / с. 30-32 [https://www.ester.ee/record=b1310514\\*est](https://www.ester.ee/record=b1310514*est)

#### **Исследование структуры фенолформальдегидных поликонденсационных смол спектроскопическими методами. Сообщение V, Определение состава хроматографических фракций поликонденсатов 5-метилрезорцина с N-оксиметилкапролактамом**

**Lippmaa, Helle**; Pehk, Tõnis; **Christjanson, Peep** Синтез и применение поликонденсационных клеев. [1] 1977 / с. 31-39 : илл [https://www.ester.ee/record=b1418128\\*est](https://www.ester.ee/record=b1418128*est) <https://digikogu.taltech.ee/et/Item/708124e8-a979-4c67-92ae-ee529ff008a7>

#### **Исследование структуры фенолформальдегидных поликонденсационных смол спектроскопическими методами. Сообщение 1. Изучение влияния прибавки капролактама на реакцию поликонденсации диметил-п-крезола**

**Lippmaa, Helle**; **Kiisler, Karl**; Pehk, Tõnis Технология органических веществ. 6 1974 / с. 81-92 : илл [https://www.ester.ee/record=b1446922\\*est](https://www.ester.ee/record=b1446922*est) <https://digikogu.taltech.ee/et/Item/22bf26dc-cffe-498c-b90f-34dc039a428f>

#### **Исследование структуры фенолформальдегидных поликонденсационных смол спектроскопическими методами. Сообщение 2. Поликонденсаты резорцина и 5-метилрезорцина и влияние прибавки капролактама на их структуру**

**Lippmaa, Helle**; Pehk, Tõnis; **Kiisler, Karl**; **Christjanson, Peep** Технология органических веществ. 6 1974 / с. 93-107 : илл [https://www.ester.ee/record=b1446922\\*est](https://www.ester.ee/record=b1446922*est) <https://digikogu.taltech.ee/et/Item/22bf26dc-cffe-498c-b90f-34dc039a428f>

#### **Исследование структуры фенолформальдегидных поликонденсационных смол спектроскопическими методами. Сообщение 3. Изучение продуктов поликонденсации резорцина с N - метилолкапролактамом**

**Lippmaa, Helle**; Pehk, Tõnis; **Kiisler, Karl**; **Christjanson, Peep** Технология органических веществ. 6 1974 / с. 109-122 : илл [https://www.ester.ee/record=b1446922\\*est](https://www.ester.ee/record=b1446922*est) <https://digikogu.taltech.ee/et/Item/22bf26dc-cffe-498c-b90f-34dc039a428f>

#### **Исследование структуры фенолформальдегидных поликонденсационных смол спектроскопическими методами. Сообщение 4 : Определение состава хроматографических фракций поликонденсатов резорцина с N-оксиметилкапролактамом**

**Lippmaa, Helle**; Pehk, Tõnis; **Christjanson, Peep** Технология органических веществ. 8 1976 / с. 73-91 : илл [https://www.ester.ee/record=b1475761\\*est](https://www.ester.ee/record=b1475761*est) <https://digikogu.taltech.ee/et/Item/38b2a836-99da-4b82-8058-1c2084a10575>

#### **Исследование структуры фенолформальдегидных смол спектроскопическими методами. Сообщение VI, Гелевая хроматография поликонденсатов 5-метилрезорцина**

**Lippmaa, Helle**; **Christjanson, Peep**; Pehk, Tõnis Синтез и применение поликонденсационных клеев. 2 1978 / с. 49-60 : илл [https://www.ester.ee/record=b2191006\\*est](https://www.ester.ee/record=b2191006*est) <https://digikogu.taltech.ee/et/Item/b615a4dd-bb4c-4a80-888a-b13d1a4c52d3>

#### **К вопросу образования сланцевых алкилрезорцинов**

Lille, Ülo; Purre, Tiit; Doilov, Svjatoslav; Pehk, Tõnis; Murd, A.; Kaidaš, N.; Vössotskaja, V. Технология органических веществ. 5 1973 / с. 185-197 : илл [https://www.ester.ee/record=b1327787\\*est](https://www.ester.ee/record=b1327787*est) <https://digikogu.taltech.ee/et/Item/4d607428-4077-45b3-a5b2-28394fbb4fa9>

#### **Новые данные о составе сланцевых фенолов**

Lille, Ülo; Kundel, Helmut; Brodski, E.; Lukašenko, I.; Pehk, Tõnis; Bitter, L. Технология органических веществ. 5 1973 / с. 199-209 : илл [https://www.ester.ee/record=b1327787\\*est](https://www.ester.ee/record=b1327787*est) <https://digikogu.taltech.ee/et/Item/4d607428-4077-45b3-a5b2-28394fbb4fa9>

#### **О химическом составе поликонденсатов резорцина и 5-метилрезорцина с N-оксиметилкапролактамом**

Lippmaa, Helle; Pehk, Tõnis; Christjanson, Peep Республиканская научная конференция "Фенолформальдегидные смолы и клеи на их основе" : тезисы докладов 1977 / с. 12-14 [https://www.ester.ee/record=b1301009\\*est](https://www.ester.ee/record=b1301009*est)

#### **Поликонденсация резорцина и 5-метилрезорцина с формальдегидом в присутствии реагентов, модифицирующих скорость реакции**

Lippmaa, Helle; Pehk, Tõnis; Alla, M. Международный симпозиум по макромолекулярной химии = International symposium on macromolecular chemistry, СССР, Ташкент, 17-21 окт. 1978 г. Т. 3 1978 / с. 64-65

#### **Реакция амидометилирования. Сообщение X, Спектроскопическое исследование структуры N, N', N'' -[(1,3-диоксифенил)-2,4,6-триметил]-три-ε-капролактама**

Oja, Holger; Lippmaa, Helle; Christjanson, Peep; Pehk, Tõnis Синтез и применение поликонденсационных клеев. 2 1978 / с. 19-28 : илл [https://www.ester.ee/record=b2191006\\*est](https://www.ester.ee/record=b2191006*est) <https://digikogu.taltech.ee/et/Item/b615a4dd-bb4c-4a80-888a-b13d1a4c52d3>

#### **Реакция амидометилирования. Сообщение 6 : Структура продуктов амидометилирования аминов**

Lippmaa, Helle; Pehk, Tõnis; Christjanson, Peep; Siimer, Kadri Технология органических веществ. 8 1976 / с. 67-72 [https://www.ester.ee/record=b1475761\\*est](https://www.ester.ee/record=b1475761*est) <https://digikogu.taltech.ee/et/Item/38b2a836-99da-4b82-8058-1c2084a10575>