

#### **Adapting mechanochemical C–N bond forming reactions for greener synthesis of pharmaceuticals**

Nikonovich, Tatsiana; Nallaparaju, Jagadeesh Varma; Mishra, Kamini Atindrakumar; Jarg, Tatsiana; Kudrjašova, Marina; Kananovich, Dzmitry; Aav, Riina GSFMT Scientific Conference 2023 : Tartu, 23-24 May, 2023 : abstracts 2023 / art. O21 : ill <https://fmdk.ut.ee/programm-2023/> <https://fmdk.ut.ee/wp-content/uploads/2023/05/Nikonovich.pdf>

#### **Analysis and quantification of remacrocyclisation of cyclohexylhemicucurbituril homologues**

Fomitšenko, Maria; Peterson, Anna; Prigorchenko, Elena; Järving, Ivar; Aav, Riina EuroAnalysis 2015 : 6-10 September 2015, Bordeaux, France 2015

#### **Analysis of intermediates and quantification of products in synthesis of hemicucurbiturils**

Fomitšenko, Maria; Prigorchenko, Elena; Peterson, Anna; Trunin, Madli; Järving, Ivar; Aav, Riina Balticum Organicum Syntheticum : 3-6 July 2016, Riga, Latvia : program and abstracts 2016 / p. 61 : 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)

#### **Anion binding of biotinuril derivatives enhanced by silver cation**

Siilak, Kristjan; Dalidovich, Tatsiana; Shalima, Tatsiana; Kudrjašova, Marina; Ustrnul, Lukas; Aav, Riina GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / p 35 [https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

#### **Anion recognition and the templated solid-state synthesis of hemicucurbiturils = Hemikukurbituriidid kui anioonide retseptorid ning nende mehhanokeemiline süntees tahkes faasis**

Kaabel, Sandra 2019 <https://digi.lib.ttu.ee/i/?11236> [https://www.ester.ee/record=b5182788\\*est](https://www.ester.ee/record=b5182788*est)

#### **Application of cobalt-containing metal-organic framework as crystalline sponge**

Martõnova, Jevgenija; Adamson, Jasper; Kaabel, Sandra; Šubin, Kirill; Aav, Riina GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 2 [https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

#### **Assignment of configuration of chiral cyclic compounds by modelled spin-spin couplings and vibrational circular dichroism spectra**

Aav, Riina; Suun, Silver; Tamp, Sven; Ausmees, Kerti; Kriis, Kadri; Metsala, Andrus; Peterson, Anna; Öeren, Mario 2nd Polish-Taiwanese Conference : From Molecular Modeling to Nano- and Biotechnology : 26-28 August 2015, Opole, Poland 2015 / [1] p. : ill

#### **Asymmetric synthesis of the 2,2,3-trisubstituted cyclopentanone, D-ring fragment of 9,11-secoosterols**

Kõllo, Marek; Aav, Riina; Tamp, Sven; Jarvet, Jüri; Lopp, Margus Tetrahedron 2014 / p. 6723-6727 : ill <https://doi.org/10.1016/j.tet.2014.07.079> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Asymmetric synthesis of the D-ring fragment of 9,11-secoosterols and its configuration assignment**

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#### **Benchmarking computational methods and influence of guest conformation on chirogenesis in zinc porphyrin complexes**

Osadchuk, Irina; Borovkov, Victor; Aav, Riina; Clot, Eric Physical chemistry chemical physics 2020 / p. 11025–11037 <https://doi.org/10.1039/DOCP00965B> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Binding between cyclohexanohemicucurbit[n]urils and polar organic guests**

Ustrnul, Lukas; Burankova, Tatsiana; Öeren, Mario; Juhhimenko, Kristina; Ilmarinen, Jenni; Siilak, Kristjan; Mishra, Kamini Atindrakumar; Aav, Riina Frontiers in chemistry 2021 / art. 701028 <https://doi.org/10.3389/fchem.2021.701028> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Bitsüklo[3.3.0]joktaanide suhtelise konfiguratsiooni määramine 1H-13C 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

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Kananovich, Dzmitry; Nallaparaju, Jagadeesh Varma; Sahoo, Suman; Aav, Riina INCOME 2025 : Book of Abstracts 2025 / p. 63 [https://www2.hu-berlin.de/income2025-berlin/INCOME2025\\_Program\\_abstracts.pdf](https://www2.hu-berlin.de/income2025-berlin/INCOME2025_Program_abstracts.pdf)

#### **The breaking of symmetry leads to chirality in cucurbituril-type hosts**

Aav, Riina; Mishra, Kamini Atindrakumar Symmetry 2018 / 26 p. : ill <https://doi.org/10.3390/sym10040098> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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[https://www2.hu-berlin.de/income2025-berlin/INCOME2025\\_Program\\_abstracts.pdf](https://www2.hu-berlin.de/income2025-berlin/INCOME2025_Program_abstracts.pdf)

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Ward, Jas S.; Martõnova, Jevgenija; Wilson, Laura M. E.; Kramer, Eric; Aav, Riina; Rissanen, Kari Dalton Transactions 2022 / p. 14646-14653 <https://doi.org/10.1039/D2DT01988D> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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Aav, Riina; Peterson, Anna; Prigorchenko, Elena; Öeren, Mario 10th International Symposium on Macrocyclic and Supramolecular Chemistry : Strasbourg, France, June 28th - July 2nd 2015 2015 / p. PA-1

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Gryko, Dorota; Szumna, Agnieszka; Aav, Riina; Soos, Tibor The journal of organic chemistry 2023 / p. 12165-12167  
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Shmatova, Elena; Fomitshenko, Maria; Öeren, Mario; Reile, Indrek; Järving, Ivar; Aav, Riina 9th International Symposium on Macrocyclic and Supramolecular Chemistry (ISMSC-9) : program and book of abstracts : Shanghai Institute of Organic Chemistry, Shanghai, China, June 7-June 11, 2014 2014 / [1] p. : ill

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Shmatova, Elena; Fomitshenko, Maria; Öeren, Mario; Reile, Indrek; Kuhtinskaja, Maria; Järving, Ivar; Aav, Riina TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p. : ill

### Chiral hemicucurbit[8]uril as an anion receptor : selectivity to size, shape and charge distribution

Kaabel, Sandra; Adamson, Jasper; Topic, Filip; Öeren, Mario; Reimund, Mart; Prigorchenko, Elena; Lõokene, Aivar; Aav, Riina Chemical science 2017 / p. 2184-2190 : ill <https://doi.org/10.1039/C6SC05058A> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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### Chiral Hemicucurbit[N]Urils, their synthesis, post functionalization and application

Mishra, Kamini Atindrakumar; Aav, Riina GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / O 21  
[https://fmt.dk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmt.dk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

### Chiral molecular containers hemicucurbiturils - are they symmetric or asymmetric?

Aav, Riina Symmetry : culture and science 2017 / p. 167-170 : ill <http://journal-scs.symmetry.hu/content/pages/volume-28-number-2-pages-161-240-2017/>

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Magna, Gabriele; Šakarašvili, Marko; Stefanelli, Manuela; Giancane, Gabriele; Bettini, Simona; Valli, Ludovico; Ustrnul, Lukas; Borovkov, Victor; Aav, Riina; Monti, Donato; Di Natale, Corrado; Paolesse, Roberto ACS applied materials and interfaces 2023 / p. 30674-30683 <https://doi.org/10.1021/acsami.3c05177> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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Aav, Riina Twelfth International Conference on Porphyrins and Phthalocyanines : ICPP-12 : book of abstracts 2022 / p. 9  
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### Chiogenesis in Zinc porphyrins : theoretical evaluation of electronic transitions, controlling structural factors and axial ligation

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**Chirogenic interaction of chiral cyclohexanohemicucurbit[n]urils with bis(Zn porphyrin)**

**Šakarašvili, Marko; Ustrnul, Lukas; Konrad, Nele; Aav, Riina** Twelfth International Conference on Porphyrins and Phthalocyanines : ICPP-12 : book of abstracts 2022 / p. 448 [http://www.icpp-spp.org/img\\_icpp12/ICPP-12%20BOA.pdf](http://www.icpp-spp.org/img_icpp12/ICPP-12%20BOA.pdf)

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**Öeren, Mario; Shmatova, Elena; Tamm, Toomas; Aav, Riina** Physical chemistry chemical physics 2014 / p. 19198-19205 : ill  
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**Kaabel, Sandra;** Topic, Filip; **Aav, Riina;** Rissanen, Kari 23rd International Conference on the Chemistry of the Organic Solid State (ICCOSS-XXIII), Stellenbosch, South Africa, April 2nd to 7th, 2017 2017 / P-28, p. 109 : ill <https://docplayer.net/51737571-icross-xxiii-stellenbosch-south-africa-contents-message-from-the-chair-of-the-organising-committee-2-previous-icross-meetings-3-committees-4.html>

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**Kaabel, Sandra; Trunin, Madli;** Topic, Filip; Rissanen, Kari; **Aav, Riina** ECS3 book of abstracts : Bol, Croatia, 25 Sept. - 02 Oct., 2016 2016 / p. 30 : ill [http://ecs3.ecanews.org/PROGRAMME\\_files/ECS3\\_Book%20of%20Abstracts\\_z\\_v5.pdf](http://ecs3.ecanews.org/PROGRAMME_files/ECS3_Book%20of%20Abstracts_z_v5.pdf)

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**Aav, Riina; Kaabel, Sandra; Fomitšenko, Maria** Comprehensive supramolecular chemistry II. Vol. 3, Supramolecular receptors 2017 / p. 203-220 : ill <https://doi.org/10.1016/B978-0-12-409547-2.12514-4>

**Cyclohexanohemicucurbit[8]uril - a neutral host for anionic guests**

**Kaabel, Sandra;** Adamson, Jasper; Kalenius, Elina; Topic, Filip; **Öeren, Mario; Löökene, Aivar;** Rissanen, Kari; **Aav, Riina** Balticum Organicum Syntheticum : 3-6 July 2016, Riga, Latvia : program and abstracts 2016 / p. 80 : ill  
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**Cyclohexanohemicucurbit[8]uril - a neutral host for anionic guests**

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**Cyclohexanohemicucurbit[8]uril inclusion complexes with heterocycles and selective extraction of sulfur compounds from water**

**Shalima, Tatsiana; Mishra, Kamini Atindrakumar;** Kaabel, Sandra; **Ustrnul, Lukas; Bartkova, Simona; Tõnsuaadu, Kaia; Heinmaa, Ivo; Aav, Riina** Frontiers in chemistry 2021 / art. 786746, 8 p. : ill <https://doi.org/10.3389/fchem.2021.786746> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Cyclohexanohemicucurbit[n]uril macrocycles: supramolecular interactions**

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**Cyclohexylhemicucurbit[8]uril - a chiral macrocyclic host for anionic guests**

**Kaabel, Sandra;** Topic, Filip; **Shmatova, Elena; Kudrjašova, Marina;** Kalenius, Elina; Kivijärvi, Lauri; **Aav, Riina;** Rissanen, Kari Acta crystallographica section A : foundations and advances 2015 / p. s475 <http://dx.doi.org/10.1107/S2053273315092992>

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**Kaabel, Sandra;** Topic, Filip; **Prigorchenko, Elena; Kudrjašova, Marina;** Kalenius, Elina; Kivijärvi, Lauri; **Aav, Riina;** Rissanen, Kari ECM29 : 29th European Crystallographic Meeting : Young Crystallographers' Satellite Meeting : Rovinj, Croatia, August 23, 2015 : [abstracts] 2015 / [1] p. : ill [http://ecm29.ecanews.org/wp-content/uploads/10\\_Sandra\\_Kaabel.pdf](http://ecm29.ecanews.org/wp-content/uploads/10_Sandra_Kaabel.pdf)

**Cyclohexylhemicucurbiturils as supramolecular necklace for guest molecule**

**Prigorchenko, Elena; Öeren, Mario; Kaabel, Sandra; Kruusamägi, Madli; Fomitšenko, Maria;** Reile, Indrek; Topic, Filip; Rissanen, Kari; **Aav, Riina** 10th International Symposium on Macrocyclic and Supramolecular Chemistry : Strasbourg, France, June 28th - July 2nd 2015 / p. PB-44

#### **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

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**Dalidovich, Tatsiana; Mishra, Kamini Atindrakumar; Shalima, Tatsiana; Kudrjašova, Marina; Kananovich, Dzmitry; Aav, Riina** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 27 [https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

#### **Development of potent microtubule targeting agent by structural simplification of natural diazonamide**

Kalnins, Toms; Vitkovska, V.; Kazak, M.; Zelencova-Gopejenko, D.; Ozola, M.; Narvaiss, N.; Makrecka-Kuka, M.; Domračeva, I.; **Konrad, Nele; Aav, Riina** Journal of medicinal chemistry 2024 / p. 9227-9259 <https://doi.org/10.1021/acs.jmedchem.4c00388> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Diastereoselective alkylation of (arene)tricarbonylchromium and ferrocene complexes using a chiral, C2-symmetrical 1,2-diamine as auxiliary**

Alexakis, Alexandre; Tomassi, Axel; Andrey, Olivier; **Aav, Riina;** Bernardinelli, Gerald European journal of organic chemistry 2006 / 15, p. 3057 <https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/ejoc.200600425>

#### **Dynamic chiral cyclohexanohemicucurbit[12]uril**

**Mishra, Kamini Atindrakumar; Adamson, Jasper; Öeren, Mario; Kaabel, Sandra; Fomitšenko, Maria; Aav, Riina** Chemical communications 2020 / p. 14645–14648 <https://doi.org/10.1039/D0CC06817A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Dynamic hemicucurbiturils**

**Aav, Riina** Balticum Organicum Syntheticum : 3-6 July 2016, Riga, Latvia : program and abstracts 2016 / p. 24 : 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)

#### **Editorial : Stimuli-responsive emissive organic and metal-organic compounds**

Chen, Zhao; Deng, Dian-Dian; **Aav, Riina; Borovkov, Victor;** Sun, Yue Frontiers in chemistry 2022 / art. 946617 <https://doi.org/10.3389/fchem.2022.946617> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Eesti sai uued teaduse tippskused : kuidas, kellele ja milleks?**

**Aav, Riina; Soomere, Tarmo;** Uuemaa, Evelyn; Raidal, Martti Sirp 2024 / lk. 34-36 : fot <https://www.sirp.ee/s1-artiklid/c21-teadus/eesti-sai-uued-teaduse-tippeskused-kuidas-kellele-ja-milleks/>

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**Aav, Riina; Kananovich, Dzmitry** novaator.err.ee 2024 [Eestlased raputasid maakoores levinud metalle](#)

#### **Formation and trapping of the thermodynamically unfavoured inverted-hemicucurbit[6]uril**

**Prigorchenko, Elena; Kaabel, Sandra; Narva, Triin; Baškir, Anastassia; Fomitšenko, Maria;** Adamson, Jasper; **Järving, Ivar;** Rissanen, Kari; **Tamm, Toomas; Aav, Riina** Chemical communications 2019 / p. 9307–9310 : ill <https://doi.org/10.1039/C9CC04990H> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Green chemistry tools in mechanochemistry**

**Casagrande, Andrea; Niidu, Allan; Aav, Riina; Kananovich, Dzmitry;** Colacino, Evelina Reference Module in Chemistry, Molecular Sciences and Chemical Engineering 2024 <https://doi.org/10.1016/B978-0-443-15742-4.00116-2>

#### **Hemicucurbit[n]urils for extraction of neutral heterocycles from water**

**Shalima, Tatsiana; Kamini, Mihsra; Kaabel, Sandra; Aav, Riina** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 77 : ill <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

#### **Hemicucurbituril complexes with Porphyrins - chirality induction and sensing**

**Ustrnul, Lukas; Šakarašvili, Marko; Konrad, Nele; Borovkov, Victor; Aav, Riina** Twelfth International Conference on Porphyrins and Phthalocyanines : ICPP-12 : book of abstracts 2022 / p. 318 [http://www.icpp-spp.org/img\\_icpp12/ICPP-12%20BOA.pdf](http://www.icpp-spp.org/img_icpp12/ICPP-12%20BOA.pdf)

#### **Heterocomponent ternary supramolecular complexes of porphyrins : a review**

**Prigorchenko, Elena; Ustrnul, Lukas; Borovkov, Victor; Aav, Riina** Porphyrin Science by Women. Volume 3: Materials, Sensors, Energy and Catalysis 2021 / p. 816-833 [https://doi.org/10.1142/9789811223556\\_0071](https://doi.org/10.1142/9789811223556_0071)



### Heterocomponent ternary supramolecular complexes of porphyrins: a review

**Prigorchenko, Elena; Ustrnul, Lukas; Borovkov, Victor; Aav, Riina** Journal of porphyrins and phthalocyanines 2019 / p. 1308-1325 : ill <https://doi.org/10.1142/S108842461930026X> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### Host-guest complexes of 2-aminocyclohexyl thioureas and zinc porphyrins: chiroptic properties and binding mechanism

**Konrad, Nele; Meniailava, Darya; Osadchuk, Irina; Aav, Riina; Borovkov, Victor; Kananovich, Dzmitry** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 44 <http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

### Host-guest complexes with a chiral hemicucurbit[8]uril [Online resource]

**Kaabel, Sandra; Paberits, Oliver; Topic, Filip; Rissanen, Kari; Aav, Riina** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p. : ill <http://fmtdk.ut.ee/teesid/>

### How reliable is internal standard method in monitoring mechanochemical synthesis? A case study of triphenylmethane in HPLC-UV-MS analysis of hemicucurbit[n]urils

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