A universality of ethane-bridged bis-porphyrin structural motif for effective supramolecular chirogenesis, sensor development, and light harvesting systems
Borovkov, Victor The UGC-SAP Sponsored International Conference on New Horizons in Synthetic and Materials Chemistry (ICSMC-2015) : Mumbai, India, November 26-28, 2015 : abstract book 2015 / p. 8

Aerobic cascade oxidation of substituted cyclopentane-1,2-diones using metalloporphyrin catalysts
Maljutenko, Karolin; **Borovkov, Victor**; **Kananovich, Dzmitry**; **Järving, Ivar**; **Lopp, Margus** Tetrahedron 2018 / p. 661−664 : ill https://doi.org/10.1016/j.tet.2017.12.009 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Application of ethane-bridged bis-porphyrin structural motif for effective supramolecular chirogenesis, sensor development, and light harvesting systems
Borovkov, Victor; **Gathergood, Nicholas** 229th ECS Meeting : May 29 - June 2, 2016, San Diego, CA : abstract book 2016 / art. 836

Chiral recognition by supramolecular porphyrin-hemicucurbit[8]uril-functionalized gravimetric sensors
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

Chirogenesis in supramolecular systems
Kanagaraj, Kuppusamy; Yang, Cheng; **Borovkov, Victor** Fundamentals of supramolecular chirality 2021 / p. 85-147 https://doi.org/10.1142/9781800610255_0004

Chirogenesis in supramolecular systems on the basis of porphyrinoids
Borovkov, Victor Proceedings : 2018, Symmetry 2017 ; vol. 2 2018 / p. 83 https://doi.org/10.3390/proceedings2010083

Chirogenesis in Zinc porphyrins : theoretical evaluation of electronic transitions, controlling structural factors and axial ligation
Osadchuk, Irina; **Aav, Riina**; **Borovkov, Victor**; Clot, Eric ChemPhysChem 2021 / p. 1817−1833 : ill https://doi.org/10.1002/cphc.202100345 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Conformational switching of ethano-bridged Cu,H_2-bis-porphyrin induced by aromatic amines
Bettini, Simona; Maglie, Emanuela; Pagano, Rosanna; **Borovkov, Victor** Beilstein journal of nanotechnology 2015 / p. 2154-2160 : ill https://doi.org/10.3762/bjnano.6.221 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Controlling chirogenic effects in porphyrin based supramolecular systems: theoretical analysis versus experimental observations
Osadchuk, Irina; **Luts, Hanna-Eliisa**; **Zahharova, Aleksandra**; **Tamm, Toomas**; **Borovkov, Victor** ChemPhysChem 2024 / art. e202400104 https://doi.org/10.1002/cphc.202400104

Efficient synthesis of novel quinolinone derivatives via catalyst-free multicomponent reaction
Du, Rui; Han, Liangliang; Zhou, Zhongqiang; **Borovkov, Victor** Letters in organic chemistry 2020 / p. 403−407 http://doi.org/10.2174/1570178616666190828092728

Ethane-bridged bisporphyrin conformational changes as an effective analytical tool for nonenzymatic detection of urea in the physiological range
Buccolieri, Alessandro; **Hasan, Mohammed**; Bettini, Simona; **Borovkov, Victor** Analytical chemistry 2018 / p. 6952-6958 : ill https://doi.org/10.1021/acs.analchem.8b01230 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Ethane-bridged bis-porphyrin structural motif for effective supramolecular chirogenesis, sensor development, and light harvesting
Borovkov, Victor The International Conference on Polymers and Advanced Materials (POLYMAT-2015) : Huatulco, Mexico, October 18-22, 2015 : abstracts book 2015 / p. 9-10

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

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

How different geometrical factors influence on ECD spectra of porphyrin-based supramolecules

Osadchuk, Irina 8th international conference on vibrational optical activity (VOA8) : book of abstracts 2024 / p. 76 https://www.mertenlab.de/wp-content/uploads/2024/08/VOA8_book_of_abstracts.pdf

Medium viscosity effect on fluorescent properties of Sn(IV)-tetra(4-sulfonatophenyl)porphyrin complexes in buffer solutions
Mamardashvili, Galina; Maltceva, Olga; Lazovskiy, Dmitriy; Khodov, Ilja; **Borovkov, Victor** Journal of molecular liquids 2019 / p. 1047-1053 : ill https://doi.org/10.1016/j.molliq.2018.12.118

Photosensitized inactivation of tumor cells by porphyrins and chlorins
Tšekulajeva, Ludmilla 2006 https://digi.lib.ttu.ee/i/?96 https://www.ester.ee/record=b2146047*est

Porfüriinid ja bilirubiin pärsivad Alzheimeri amüloid beta peptiidi agregatsiooni
Tšekulajeva, Ludmilla; **Ševtšuk, Igor**; **Tšekulajev, Vladimir**; **Palumaa, Peep** XXX Eesti keemiapäevad : teaduskonverentsi teesid = 30th Estonian Chemistry Days : abstracts of scientific conference 2007 / lk. 165-166 https://www.ester.ee/record=b2314480*est

Supramolecular chirogenesis in a sterically hindered Porphyrin : a critical theoretical analysis
Osadchuk, Irina; **Luts, Hanna-Eliisa**; Norvaiša, Karolis; **Borovkov, Victor**; Senge, Mathias O. Chemistry : a European journal 2023 / art. e202301408 https://doi.org/10.1002/chem.202301408

Supramolecular chirogenesis in a sterically hindered porphyrin: a critical theoretical analysis
Osadchuk, Irina; **Luts, Hanna-Eliisa**; Norvaiša, Karolis; **Borovkov, Victor**; Senge, Mathias O. Chemistry : a European journal 2023 / art. e202302275 https://doi.org/10.1002/chem.202302275 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Supramolecular Chirogenesis in bis-porphyrin: crystallographic structure and CD spectra for a complex with a chiral guanidine derivative
Osadchuk, Irina; **Konrad, Nele**; Truong, Khai-Nghi; Rissanen, Kari; Clot, Eric; **Aav, Riina**; **Kananovich, Dzmitry**; **Borovkov, Victor** Symmetry 2021 / 14 p. : ill https://doi.org/10.3390/sym13020275 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Supramolecular Chirogenesis in bis-porphyrin: crystallographic structure and CD spectra for a complex with a chiral guanidine derivative
Osadchuk, Irina; **Konrad, Nele**; Truong, Khai-Nghi; **Aav, Riina**; **Kananovich, Dzmitry**; **Borovkov, Victor** Chiral Auxiliaries and Chirogenesis II 2021 / p. 83-96 https://doi.org/10.3390/sym13020275 https://doi.org/10.3390/books978-3-0365-1155-9

Supramolecular chirogenesis in chemical and related sciences : editorial
Sun, Yue; **Aav, Riina**; **Borovkov, Victor** Frontiers in chemistry 2021 / art. 679332 https://doi.org/10.3389/fchem.2021.679332 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Supramolecular chirogenesis in zinc porphyrins by enantiopure hemicucurbit[n]urils (n = 6, 8)
Ustrnul, Lukas; **Kaabel, Sandra**; Burankova, Tatsiana; **Martõnova, Jevgenija**; **Konrad, Nele**; **Borovkov, Victor**; **Aav, Riina** Chemical communications 2019 / p. 14434-14437 : ill https://doi.org/10.1039/c9cc07150d Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Supramolecular chirogenesis in zinc porphyrins by interaction with enantiopure hemicucurbiturils
Ustrnul, Lukas; **Kaabel, Sandra**; Burankova, Tatsiana; **Konrad, Nele**; **Borovkov, Victor**; **Aav, Riina** 14th International Symposium on Macrocyclic and Supramolecular Chemistry (ISMSC2019), June 2-6 2019, Lecce, Italy : book of abstracts 2019 / p. 489 https://sti.chem.polimi.it/ismsc2019/

Supramolecular chirogenesis in zinc porphyrins: complexation with enantiopure thiourea derivatives, binding studies and chirality transfer mechanism
Konrad, Nele; Meniailava, Darya; **Osadchuk, Irina**; Adamson, Jasper; **Hasan, Mohammed**; Clot, Eric; **Aav, Riina**; **Borovkov, Victor**; **Kananovich, Dzmitry** Journal of porphyrins and phthalocyanines 2020 https://doi.org/10.1142/S108842461950192X Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Synthesis, EPR and DFT calculations of rare Ag(II)porphyrins and the crystal structure of [Zn(II)tetrakis(4-bromo-2-thiophene)porphyrin]
Ghazzali, Mohamed; Abu-Youssef, Morsy; Larsson, Krister; Hansson, Örjan; Amer, Adel; **Tamm, Toomas**; Öhström, Lars Inorganic chemistry communications 2008 / 9, p. 1019-1022 : ill https://www.sciencedirect.com/science/article/pii/S1387700308002281

The role of the central metal ion of ethane-bridged bis-porphyrins in histidine sensing
Bettini, Simona; Pagano, Rosanna; **Borovkov, Victor**; Giancane, Gabriele; Valli, Ludovico Journal of colloid and interface science 2019 / p. 762-770 : ill https://doi.org/10.1016/j.jcis.2018.08.116

Theoretical rationalization of chirality sensors on the basis of mono- and bis-porphyrins : abstract
Osadchuk, Irina Proceedings of the CSAC2021 : 1st International Electronic Conference on Chemical Sensors and Analytical

Chemistry, 1–15 July 2021, MDPI: Basel, Switzerland : online 2021 / 1 p https://doi.org/10.3390/CSAC2021-10550

Thiourea organocatalysts as emerging chiral pollutants : en route to porphyrin-based (chir)optical sensing
Konrad, Nele; **Horetski, Matvey**; **Sihtmäe, Mariliis**; **Osadchuk, Irina**; Senge, Mathias O.; **Borovkov, Victor**; **Aav, Riina**; **Kananovich, Dzmitry** Chemosensors 2021 / art. 278 https://doi.org/10.3390/chemosensors9100278 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS