

List of publications of Hennie Valkenier

Contributions to collective works

2007

Van Esch, J., Valkenier, H., Hartwig, S., & Hecht, S. (2007). Foldamers at Interfaces. In S. Hecht & I. Huc (Eds.), *Foldamers: Structure, Properties, and Applications* (pp. 403-426). Weinheim: Wiley-VCH.

Peer-reviewed journal articles

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Maslowska-Jarzyna, K., Cataldo, A., Marszalik, A., Ignatikova, I., Butler, S. J., Stachowiak, R., Chmielewski, M., & Valkenier, H. (2022). Dissecting transmembrane bicarbonate transport by 1,8-di(thio)amidocarbazoles. *Organic & biomolecular chemistry*, 20(38), 7658-7663. doi:10.1039/D2OB01461K

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Dascalu, A.-E., Halgreen, L., Torres Huerta, A., & Valkenier, H. (2022). Dynamic covalent chemistry with azines. *Chemical communications*, 87(15), 9829-9838. doi:10.1039/D2CC03523E

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De Simone, N. A., Chvojka, M., Lapešová, J., Martinez Crespo, L., Slávik, P., Sokolov, J., Butler, S., Valkenier, H., & Šindelá, V. (2022). Monofunctionalized Fluorinated Bambusurils and Their Conjugates for Anion Transport and Extraction. *Journal of organic chemistry*, 87, 9829-9838. doi:10.1021/acs.joc.2c00870

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Singh, A., Torres Huerta, A., Vanderlinden, T., Renier, N., Martinez Crespo, L., Tumanov, N., Wouters, J., Bartik, K., Jabin, I., & Valkenier, H. (2022). Calix[6]arenes with halogen bond donor groups as selective and efficient anion transporters. *Chemical communications*, 58, 6255-6258. doi:10.1039/d2cc008472e

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Martinez Crespo, L., Halgreen, L., Soares, M., Marques, I., Félix, V., & Valkenier, H. (2021). Hydrazones in anion transporters: the detrimental effect of a second binding site. *Organic & biomolecular chemistry*, 19(38), 8324-8337. doi:10.1039/D1OB01279G

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Martinez Crespo, L., Hewitt, S. H., De Simone, N. A., Šindelá#, V., Davis, A. P., Butler, S., & Valkenier, H. (2021). Transmembrane Transport of Bicarbonate Unravelling. *Chemistry*, 27(26), 7367-7375. doi:10.1002/chem.202100491

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Jur#ek, O., Nonappa, N., Kalenius, E., Jur#ek, P., Linnanto, J. M., Puttreddy, R., Valkenier, H., Houbenov, N., Babiak, M., Peterek, M., Davis, A. A., Marek, R., & Rissanen, K. (2021). Hexagonal Microparticles from Hierarchical Self-Organization of Chiral Trigonal Pd3L6 Macrotetraycles. *Cell reports physical science*, 2, 100303. doi:10.1016/j.xcrp.2020.100303

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Zahim, S., Ajami, D., Laurent, P., Valkenier, H., Reinaud, O., Luhmer, M., & Jabin, I. (2020). Synthesis and Binding Properties of a Tren-Capped Hexahomotrioxacalix[3]arene. *ChemPhysChem*, 21(1), 83-89. doi:10.1002/cphc.201900951

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2019

Li, H., Valkenier, H., Thorne, A., Dias, C. M., Cooper, J. A., Kieffer, M., Busschaert, N., Gale, P. A., Sheppard, D. N., & Davis, A. P. (2019). Anion carriers as potential treatments for cystic fibrosis: transport in cystic fibrosis cells, and additivity to channel-targeting drugs. *Chemical science*, 10(42), 9663-9672. doi:10.1039/C9SC04242C

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Valkenier, H., Dias, C., Butts, C., & Davis, A. (2017). A folding decalin tetra-urea for transmembrane anion transport. *Tetrahedron*, 73(33), 4955-4962. doi:10.1016/j.tet.2017.04.064

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Martinez Crespo, L., Halgreen, L., Soares, M., Marques, I., Félix, V., & Valkenier, H. (2021). Hydrazones in anion transporters: the detrimental effect of a second binding site. *ChemRxiv*. doi:10.33774/chemrxiv-2021-18gpl

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Mooibroek, T. J., Scheiner, S., & Valkenier, H. (2021). Editorial: Molecular Recognition. *ChemPhysChem*, 22, 433-434. doi:10.1002/cphc.202100056

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Martinez Crespo, L., Hewitt, S. H., De Simone, N. A., Šindelá#, V., Davis, A. P., Butler, S., & Valkenier, H. (2020). Direct Monitoring of Bicarbonate Transport by Emission Spectroscopy. *ChemRxiv*. doi:10.26434/chemrxiv.12624425.v3

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Renier, N., Reinaud, O., Jabin, I., & Valkenier, H. (2020). Transmembrane transport of copper(I) by imidazole-functionalised calix[4]arenes. *ChemRxiv*. doi:10.26434/chemrxiv.12206144.v3

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Active participation in international conferences and symposiums

2022

Torres Huerta, A., Dascalu, A.-E., Halgreen, L., & Valkenier, H. (2022). *Dynamic covalent chemistry with azines*. Paper session presented at Symposium on "Dynamic Covalent Chemistry (DCC) in water" (24 October 2022: Enschede, The Netherlands).

Valkenier, H. (2022). *Crossing Barriers: Synthetic Receptors for the Transmembrane Transport of Ions*. Paper session presented at Journée Scientifique de Société Royale de Chimie (18 October 2022: Liège, Belgium).

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Torres Huerta, A., Dascalu, A.-E., Halgreen, L., & Valkenier, H. (2022). *Dynamic covalent chemistry with azines*. Paper session presented at EuChemS (2022: 28/08/2022-1/09/2022: Lisbon, Portugal).

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Valkenier, H. (2022). *Transmembrane Transport of Ions by Calixarene-based Receptors*. Paper session presented at Calix2022 (16th International Conference on Calixarenes: 10-14 July 2022: New Orleans, Louisiana, USA).

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Cataldo, A., Park, G., Chvojka, M., Troian Gautier, L., Šindelá#, V., Gabbai, F., Butler, S., & Valkenier, H. (2022). *Transmembrane transport of fluoride: a new way to look at it*. Poster session presented at International Symposium of Macrocyclic and Supramolecular Chemistry (ISMCS2022) (19-24 June 2022: Eugene, Oregon, USA).

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Cataldo, A., Park, G., Chvojka, M., Šindelá#, V., Gabbai, F., Butler, S., & Valkenier, H. (2022). *Transmembrane transport of fluoride: shedding light on it*. Paper session presented at Kroese-Duijsters Symposium (30 May 2022: Leiden, Netherlands).

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Valkenier, H. (2022). *Selective Transport of Ions: from Transporters to Assays*. Paper session presented at Kroese-Duijster Symposium on Molecular Receptors and Machines in Lipid Bilayer Membranes (30-31 May 2022: Leiden, The Netherlands).

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Martinez Crespo, L., Halgreen, L., Soares, M., Marques, I., Félix, V., & Valkenier, H. (2022). *Hydrazones in Anion Transporters: The Detrimental Effect of a Second Binding Site*. Poster session presented at #RSCPoster Twitter Conference (2022: 1-2 March 2022: Online).

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2021

Valkenier, H. (2021). *Monitoring Transmembrane Transport of Ions using Fluorescence Spectroscopy*. Paper session presented at WISC/vMASC workshop (1st: 6-8 September 2021: Cagliari, Italy).

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Cataldo, A., Park, G., Butler, S., Gabbai, F., & Valkenier, H. (2021). *Direct monitoring of transmembrane transport of fluoride via fluorometric method*. Paper session presented at 1st Women in Supramolecular Chemistry (WISC) workshop (06-08 September 2021).

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Halgreen, L., Valkenier, H., & Martinez Crespo, L. (2021). *Dynamic combinatorial chemistry with imines for the development of phosphate receptors*. Poster session presented at 1st Women in Supramolecular Chemistry (WISC) workshop (06-09-2021 to 08-09-2021: Cagliari, Italy).

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Singh, A., Torres Huerta, A., Valkenier, H., Jabin, I., Martinez Crespo, L., Renier, N., Vanderlinden, T., Tumanov, N., & Wouters, J. (2021). *Calixarenes with halogen bond donors for anion transport*. Poster session presented at 1st Women in Supramolecular Chemistry (WISC) workshop (6th - 8th September 2021).

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Martinez Crespo, L., Halgreen, L., Soares, M., Marques, I., Félix, V., & Valkenier, H. (2021). *Hydrazones in Anion Transporters: The Detrimental Effect of a Second Binding Site*. Poster session presented at WISC-vMASC workshop (31 August 2021: online).

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Martinez Crespo, L., Halgreen, L., Soares, M., Marques, I., Félix, V., & Valkenier, H. (2021). *Hydrazones in Anion Transporters: The Detrimental Effect of a Second Binding Site*. Poster session presented at International Symposium on Macrocyclic and Supramolecular Chemistry (13 July 2021: online).

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Singh, A., Jabin, I., & Valkenier, H. (2021). *Calixarenes with halogen bond donors for anion transport*. Paper session presented at EDT-CHIM 2021 (20th May 2021).

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Valkenier, H., Martinez Crespo, L., & Butler, S. (2021). *Direct monitoring of bicarbonate transport by anion receptors*. Paper session presented at ACS Spring meeting (online).

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Martinez Crespo, L., Hewitt, S. H., De Simone, N. A., Šindelá#, V., Davis, A. P., Butler, S., & Valkenier, H. (2021). *Transmembrane Bicarbonate Transport Unraveled*. Poster session presented at SupraMat (11-12 February 2021: online).

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Renier, N., Jabin, I., & Valkenier, H. (2021). *Exploring Cu(I) transmembrane transport*. Paper session presented at vMASC early career seminar series (2021-02-04).

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2020

Valkenier, H., Martinez Crespo, L., & Butler, S. (2020). *Bicarbonate Transport ?!* Paper session presented at RSC virtual Macrocyclic and Supramolecular Chemistry Meeting (vMASC) (16-17 December 2020: online).

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Valkenier, H. (2020). *Macrocyclic Receptors for the Transmembrane Transport of Ions*. Paper session presented at CHAINS (8-9 December 2020: online).

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Halgreen, L., Martinez Crespo, L., & Valkenier, H. (2020). *The effect of (acyl)hydrazones and multiple binding sites on transmembrane anion transport*. Poster session presented at International Symposium on Macrocyclic and Supramolecular Chemistry (25-08-2020: Online).

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2019

Valkenier, H., Akrawi, O., Jur#ek, P., Sleziaková, K., Lízal, T., Šindelá#, V., & Bartik, K. (2019). *Bambus[6]uril macrocycles as powerful anion receptors and highly effective Cl-/HCO3- transmembrane transporters*. Poster session presented at RSC Macrocyclic and Supramolecular Chemistry meeting (16-17 December 2019: University of Kent, United Kingdom).

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Martinez Crespo, L., Halgreen, L., & Valkenier, H. (2019). *Dynamic covalent chemistry in anion transporters*. Poster session presented at RSC Macrocyclic and Supramolecular Chemistry meeting (16-17 December 2019: University of Kent, Canterbury, United Kingdom).

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Renier, N., Reinaud, O., Jabin, I., & Valkenier, H. (2019). *Exploring Copper(I) Transmembrane Transport: From Receptors to Transporters*. Poster session presented at Current trends in membrane protein biophysics.

Halgreen, L., Martinez Crespo, L., & Valkenier, H. (2019). *Synthesis of acylhydrazide and aldehyde building blocks for use in Dynamic Combinatorial organic phosphate recognition*. Poster session presented at Merck Organic Chemistry Symposium (05-12-2019: Blankenberge, Belgium).

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Martinez Crespo, L., Halgreen, L., & Valkenier, H. (2019). *Dynamic covalent chemistry in anion transporters*. Poster session presented at NanoScience Days (8-9 October 2019: Jyväskylä, Finland).

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Blond, P., Mattiuzzi, A., Valkenier, H., Troian Gautier, L., Doneux, T., Goormaghtigh, E., Raussens, V., & Jabin, I. (2019). *Grafting of Oligo(ethylene glycol) functionalized Calix[4]arene-tetra-diazonium Salts on Germanium and Gold Surfaces for Biosensing Applications* flash presentation "Grafting of Calix[4]arene on Germanium and Gold for Biosensing Applications". Poster session presented at European Conference on the Spectroscopy of Biological Molecules (19-22/08/2019: Dublin).

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Valkenier, H. (2019). *Macrocyclic anion carriers*. Paper session presented at 21st European Symposium on Organic Chemistry (ESOC2019) (14-18 July 2019: Vienna, Austria).

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Valkenier, H. (2019). *Macrocyclic receptors for transmembrane transport*. Paper session presented at XI Young Investigator Workshop (11-13 July 2019: Vienna, Austria).

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Valkenier, H., Juršek, O., Puttreddy, R., Novák, M., Sparkes, H. A., Marek, R., Rissanen, K., & Davis, A. P. (2019). *Anion Recognition by a Bioactive Diureidodecalin Anionophore*. Poster session presented at International Symposium on Macrocyclic and Supramolecular Chemistry 2019 (2-6 June 2019: Lecce, Italy).

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Renier, N., Reinaud, O., Jabin, I., & Valkenier, H. (2019). *Exploring Copper(I) Transmembrane Transport*. Poster session presented at International Symposium on Macrocyclic and Supramolecular Chemistry (ISMSC 2019).

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Renier, N., Reinaud, O., Jabin, I., & Valkenier, H. (2019). *Exploring Copper(I) Transmembrane Transport: From Receptors to Transporters*. Poster session presented at Ecole Doctorale de Chimie (EDT-CHIM).

Valkenier, H. (2019). *Synthetic Receptors for the Transmembrane Transport of Anions*. Paper session presented at General Scientific Meeting of the Belgian Physical Society (22 Mei 2019: Brussels, Belgium).

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2018

Valkenier, H., Akrawi, O., Juršek, P., Sleziaková, K., Lízal, T., Sindeláček, V., & Bartik, K. (2018). *Bambus[6]uril macrocycles as powerful anion receptors and highly effective Cl⁻/HCO₃⁻ transmembrane transporters*. Poster session presented at Young Belgian Magnetic Resonance Scientist (17: 6-7 December 2018: Spa, Belgium).

Grauwels, G., Valkenier, H., Jabin, I., & Bartik, K. (2018). *Repositioning chloride transmembrane transporters: their potential for organic ion-pairs*. Poster session presented at YBMRS.

Renier, N., Reinaud, O., Jabin, I., & Valkenier, H. (2018). *Exploring Copper(I) Transmembrane Transport: From Receptors to Transporters*. Poster session presented at Young Belgian Magnetic Resonance Scientists (YBMRS).

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Valkenier, H., Akrawi, O., Juršek, P., Sleziaková, K., Lízal, T., Sindeláček, V., & Bartik, K. (2018). *Bambus[6]uril macrocycles as powerful anion receptors and highly effective Cl⁻/HCO₃⁻ transmembrane transporters*. Poster session presented at Solvay Workshop on Chiral Symmetry Breaking at Molecular Level (28-30 November 2018: Brussels, Belgium).

Grauwels, G., Valkenier, H., Jabin, I., & Bartik, K. (2018). *Calix[6]arene tris(thio)ureas as novel carriers for the transmembrane transport of chloride and organic ion-pairs*. Poster session presented at ISMSC 2018.

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Valkenier, H., Akrawi, O., Juršek, P., Sleziaková, K., Lízal, T., Sindeláček, V., & Bartik, K. (2018). *Bambus[6]uril macrocycles as highly effective Cl⁻/HCO₃⁻ transmembrane transporters*. Poster session presented at 13th International Symposium on Macrocyclic and Supramolecular Chemistry (6-13 July 2018: Quebec, Canada).

Blond, P., Mattiuzzi, A., Valkenier, H., Troian Gautier, L., Bergamini, J.-F., Doneux, T., Goormaghtigh, E., Raussens, V., & Jabin, I. (2018). *Grafting of Oligo(ethylene glycol) Functionalized Calix[4]arene-tetra-diazonium salts for antifouling Germanium and Gold surfaces*. Poster session presented at International Symposium on Macrocyclic and Supramolecular Chemistry (13: 8-13 Juillet 2018: Québec).

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Blond, P., Mattiuzzi, A., Valkenier, H., Troian Gautier, L., Bergamini, J.-F., Doneux, T., Goormaghtigh, E., Raussens, V., & Jabin, I. (2018). *Surface Modification of Germanium with Oligo(ethylene glycol) Functionalized Calix[4]arene-tetradiazonium Salts Prevents Nonspecific Adsorption of Proteins*. Poster session presented at Rencontres en Chimie Organique Biologique (17: 18 - 22 mars 2018: Aussois).

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Valkenier, H., Grauwels, G., Davis, A. P., & Bartik, K. (2018). *Crossing the border: organic molecules transport chloride across lipid bilayers*. Paper session presented at National Symposium for Applied Biological Sciences (23: 8 February 2018: Brussels, Belgium).

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2017

Grauwels, G., Valkenier, H., Marcelis, L., Jabin, I., & Bartik, K. (2017). *NMR Shift Reagents and Liposomes: Paving the Way to Study Transmembrane Transport*. Poster session presented at YBMRS.

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Valkenier, H., Grauwels, G., Davis, A., Jabin, I., & Bartik, K. (2017). *Crossing the border: organic molecules transport chloride across lipid bilayers*. Poster session presented at Molecular Machines Nobel Prize Conference (19-22 November 2017: Groningen).

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Grauwels, G., Valkenier, H., Jabin, I., & Bartik, K. (2017). *Elucidation of the Mechanisms of Transmembrane Transport by Calix[6]arene Tris-(thio)ureas*. Poster session presented at Journée de la Société Royale de Chimie.

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Valkenier, H., Dias, C., & Davis, A. (2017). *Embracing Chloride: Transmembrane Transport of Anions by a Folding Decalin Tetra-Urea Receptor*. Poster session presented at International Symposium on Macrocyclic and Supramolecular Chemistry (2-7 July 2017: Cambridge, UK).

Grauwels, G., Valkenier, H., Fusaro, L., Jabin, I., & Bartik, K. (2017). *Transmembrane Transport by Calix[6]arene Tris-(thio)ureas: NMR and Fluorescence Studies*. Poster session presented at EDT-CHIM.

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Valkenier, H., Malyskyi, V., Blond, P., Retout, M., Mattiuzzi, A., Derfoufi, K.-M., Raussens, V., Jabin, I., & Bruylants, G. (2017). *Infra-Red Study revealing Controlled Functionalisation of Gold Nanoparticles with Mixtures of Calix[4]arenes*. Poster session presented at Annual Meeting of the Doctoral School "Molecular, Supramolecular, and Functional Chemistry" (EDT-CHIM) (9 May 2017: Gembloux, Belgium).

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Valkenier, H. (2017). *Transmembrane transport of chloride by synthetic anion carriers*. Paper session presented at Chinese-Belgian Workshop on Supramolecular Chemistry and Catalysis (27 March 2017: Leuven, Belgium).

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Grauwels, G., Valkenier, H., Fusaro, L., Jabin, I., & Bartik, K. (2017). *Physico-Chemical Characterisation of Chloride Transmembrane Transport using Calix[6]arene-based Receptors*. Paper session presented at Molecules and membranes (17-02-2017: ULB).

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2016

Grauwels, G., Valkenier, H., Fusaro, L., Jabin, I., & Bartik, K. (2016). *Physico-Chemical Characterisation of Chloride Transmembrane Transport using Calix[6]arene-based Receptors*. Paper session presented at YBMRS (05-06 december 2016: Spa).

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Valkenier, H., Troian Gautier, L., Mattiuzzi, A., Jabin, I., Lagrost, C., Leroux, Y., & Bruylants, G. (2016). *Extremely robust and post-functionalizable gold nanoparticles coated with calix[4]arenes via metal-carbon bonds*. Poster session presented at ERC Grantees Conference "Frontiers in Chemistry" (31 August - 2 September 2016: Zandvoort, The Netherlands).

<https://dipot.ulb.ac.be/dspace/bitstream/2013/263634/3/posterCalixAuNPsAug2016.pdf>

Grauwels, G., Valkenier, H., Jabin, I., & Bartik, K. (2016). *Chloride Transmembrane Transport Properties of Calix[6]arene-based Receptors*. Poster session presented at International Symposium on Macrocyclic and Supramolecular Chemistry (ISMSC).

https://dipot.ulb.ac.be/dspace/bitstream/2013/263624/3/ISMSC2016-Poster_Glenn.pdf

Valkenier, H. (2016). *Efficient Chloride Transport by Synthetic Carriers*. Paper session presented at Biophysics of Protein-Membrane Interactions: From Model Systems to Cells (Joint Meeting of the Membrane Sections of the French and German Biophysical Societies) (11-14 April 2016: Bad-Herrenalb, Germany).

2015

Valkenier, H. (2015). *Transmembrane transport of chloride: from liposomes to GUVs and cells*. Paper session presented at Summer Supramolecular Symposium (17 June 2015: Southampton, UK).

Valkenier, H., Judd, L., López Mora, N., Kros, A., & Davis, A. (2015). *Synthetic Anion Carriers for Fast Chloride Transport*. Paper session presented at COST Conference on Supramolecular Chemistry in Water (5-8 February 2015: Prague, Czech Republic).

2014

Valkenier, H., López Mora, N., Kros, A., & Davis, A. (2014). *Seeing is Believing: Transmembrane Ion Transport into Giant Unilamellar Vesicles*. Paper session presented at Macrocyclic and Supramolecular Chemistry Meeting (15-16 December 2014: Norwich, UK).

Valkenier, H., & Davis, A. (2014). *Synthetic anion carriers for fast chloride transport*. Paper session presented at Bristol Synthetic and Chemical Biology Symposium (16 April 2014: Bristol, UK).

2013

Valkenier, H., Haynes, C. J. E., Herniman, J., Gale, P. A., & Davis, A. (2013). *Lipophilic balance: a new concept in anion transport*. Paper session presented at Macrocyclic and Supramolecular Chemistry Meeting (16-17 December 2013: Glasgow, UK).

2011

Valkenier, H., & Hummelen, J. (2011). *Molecular Conductance: How Chemistry Controls Physics*. Paper session presented at Zernike Institute for Advanced Materials Conference (15-17 May 2011: Vlieland, The Netherlands).

2010

Valkenier, H., & Hummelen, J. (2010). *Formation of SAMs of Conjugated Thiols on Gold: Base Matters*. Paper session presented at MicroNanoConference (17-18 November 2010: Enschede, The Netherlands).

Valkenier, H., & Hummelen, J. (2010). *Tuning the formation of SAMs of Conjugated Thiols on Gold: Base Matters*. Paper session presented at European Conference on Surface Science (27: 29 August - 3 September 2010: Groningen, The Netherlands).

Valkenier, H., & Hummelen, J. (2010). *Conductance of Conjugated Molecular Wires: a Matrix Approach*. Paper session presented at Physics@FOM (19-20 January 2010: Veldhoven, The Netherlands).

2009

Valkenier, H., & Hummelen, J. (2009). *Series of Conjugated Molecular Wires for Conductance Studies*. Paper session presented at MicroNanoConference (5-6 November 2009: Delft, The Netherlands).

Member of Ph.D. jury

2021

Marloye, M. (2021). *Rationally designed ruthenium and osmium pseudo-octahedral complexes with original metabolic and antitumor properties* (Unpublished doctoral dissertation). Université libre de Bruxelles, Faculté de Pharmacie, Bruxelles.

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 <https://dipot.ulb.ac.be/dspace/bitstream/2013/333290/5/ContratDepotTheseMarloye.pdf>

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2020

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