

# List of publications of Kristin Bartik

## Contributions to collective works

2012

Valcke, J., Bartik, K., & Tudor, I. (2012). Practising CLIL in Higher Education: Challenges and Perspectives. In *Quality Interfaces: Examining Evidence & Exploring Solutions in CLIL* (p. 286). Eichstaett Academic Press: David MARsh & Oliver Meyer.

2011

Bruylants, G., Locci, E., Reisse, J., & Bartik, K. (2011). Liquid water : a necessary condition for all forms of life ? In P. Lopez-Garcia (Ed.), *Origin and Evolution of Life: An Astrobiological Perspective* (pp. 205-217). Cambridge: Cambridge University Press.

 [https://dipot.ulb.ac.be/dspace/bitstream/2013/55168/3/Bruylants\\_LiquidWater2011.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/55168/3/Bruylants_LiquidWater2011.pdf)

1999

Reisse, J., Caulier, T., Dekerckheer, C., Kegelaers, Y., Segebarth, N., & Bartik, K. (1999). Some physico-chemical aspects of so-called "Homogeneous Sonochemistry". In L. A. Crum, T. J. Mason, J. Reisse, & K. S. Suslick (Eds.), *Sonochemistry and Sonoluminescence* (pp. 205-224). Dordrecht: Kluwer Academic Publishers.(NATO Science series C).

## Peer-reviewed journal articles

2022

Carpentier, R., Lambert, S., Brunetti, E., Jabin, I., & Bartik, K. (2022). Specific Binding of Primary Ammoniums in Aqueous Media by Homooxalixarenes Incorporated into Micelles. *Journal of organic chemistry*. doi:10.1021/acs.joc.2c01318

 blocked until 2023-03-22 [https://dipot.ulb.ac.be/dspace/bitstream/2013/350342/4/Carpentier\\_JOC2022\\_preprint.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/350342/4/Carpentier_JOC2022_preprint.pdf)

 [https://dipot.ulb.ac.be/dspace/bitstream/2013/350342/3/Carpentier\\_JOC2022\\_pubprint.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/350342/3/Carpentier_JOC2022_pubprint.pdf)

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

 [https://dipot.ulb.ac.be/dspace/bitstream/2013/342151/3/D2CC00847E\\_reproof.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/342151/3/D2CC00847E_reproof.pdf)

 [https://dipot.ulb.ac.be/dspace/bitstream/2013/342151/4/ESI\\_20220322.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/342151/4/ESI_20220322.pdf)

 [https://dipot.ulb.ac.be/dspace/bitstream/2013/342151/5/d2cc00847e\\_pubprint.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/342151/5/d2cc00847e_pubprint.pdf)

2021

Brunetti, E., Marcelis, L., Zhurkin, F., Luhmer, M., Jabin, I., Reinaud, O., & Bartik, K. (2021). A Water Molecule Triggers Guest Exchange at a Mono#zinc Centre Confined in a Biomimetic Calixarene Pocket: a Model for Understanding Ligand Stability in Zn Proteins. *Chemistry*, 27(55), 13730-13738. doi:https://doi.org/10.1002/chem.202102184

 [https://dipot.ulb.ac.be/dspace/bitstream/2013/329028/4/Brunetti\\_ChemEurJ2021\\_preprint.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/329028/4/Brunetti_ChemEurJ2021_preprint.pdf)

[https://dipot.ulb.ac.be/dspace/bitstream/2013/329028/6/Brunetti\\_ChemEurJ2021\\_cover.jpg](https://dipot.ulb.ac.be/dspace/bitstream/2013/329028/6/Brunetti_ChemEurJ2021_cover.jpg)  
[https://dipot.ulb.ac.be/dspace/bitstream/2013/329028/5/Brunetti\\_ChemEurJ2021\\_pubprint.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/329028/5/Brunetti_ChemEurJ2021_pubprint.pdf)

## 2020

Lambert, S., Bartik, K., & Jabin, I. (2020). Specific Binding of Primary Ammonium Ions and Lysine-Containing Peptides in Protic Solvents by Hexahomotrioxacalix[3]arenes. *Journal of organic chemistry*, 85(15), 10062-10071. doi:10.1021/acs.joc.0c01294  
[https://dipot.ulb.ac.be/dspace/bitstream/2013/310467/3/Lambert\\_JOC2020.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/310467/3/Lambert_JOC2020.pdf)  
[https://dipot.ulb.ac.be/dspace/bitstream/2013/310467/4/Lambert\\_Ox3\\_revised-final.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/310467/4/Lambert_Ox3_revised-final.pdf)

## 2019

Grauwels, G., Valkenier, H., Davis, A. P., Jabin, I., & Bartik, K. (2019). Repositioning Chloride Transmembrane Transporters: Transport of Organic Ion Pairs. *Angewandte Chemie International Edition in English*, 58(21), 6921-6925. doi:10.1002/anie.201900818  
[https://dipot.ulb.ac.be/dspace/bitstream/2013/284042/4/Manuscript-PrNH3Cltransport\\_accepted.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/284042/4/Manuscript-PrNH3Cltransport_accepted.pdf)  
[https://dipot.ulb.ac.be/dspace/bitstream/2013/284042/3/SupportingInformation\\_accepted.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/284042/3/SupportingInformation_accepted.pdf)  
[https://dipot.ulb.ac.be/dspace/bitstream/2013/284042/5/Grauwels\\_Angewandte2019\\_pubprint.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/284042/5/Grauwels_Angewandte2019_pubprint.pdf)

Valkenier, H., Akrawi, O., Jur#ek, P., Sleziaková, K., Lízal, T., Bartik, K., & Sindelá#., V. (2019). Fluorinated Bambusurils as Highly Effective and Selective Transmembrane Cl-/HCO<sub>3</sub>- Antiporters. *Chem*, 5(2), 429-444. doi:10.1016/j.chempr.2018.11.008  
[https://dipot.ulb.ac.be/dspace/bitstream/2013/278934/4/BambusurilTransport\\_postprint.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/278934/4/BambusurilTransport_postprint.pdf)  
[https://dipot.ulb.ac.be/dspace/bitstream/2013/278934/6/BambusurilsTransport\\_SI.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/278934/6/BambusurilsTransport_SI.pdf)  
[https://dipot.ulb.ac.be/dspace/bitstream/2013/278934/5/Elsevier\\_268459.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/278934/5/Elsevier_268459.pdf)

## 2018

Collin, S., Parrot, A., Marcelis, L., Brunetti, E., Jabin, I., Bruylants, G., Bartik, K., & Reinaud, O. (2018). Submerging a Biomimetic Metallo-Receptor in Water for Molecular Recognition: Micellar Incorporation or Water Solubilization? A Case Study. *Chemistry*, 24. doi:10.1002/chem.201804768  
[https://dipot.ulb.ac.be/dspace/bitstream/2013/278932/3/Collin\\_et\\_al-2018-Chemistry\\_-\\_A\\_European\\_Journal.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/278932/3/Collin_et_al-2018-Chemistry_-_A_European_Journal.pdf)  
[https://dipot.ulb.ac.be/dspace/bitstream/2013/278932/5/Collin\\_et\\_al-2018-Chemistry\\_-\\_Eur\\_Journal\\_postprint.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/278932/5/Collin_et_al-2018-Chemistry_-_Eur_Journal_postprint.pdf)  
[https://dipot.ulb.ac.be/dspace/bitstream/2013/278932/4/Collin\\_et\\_al-2018-Chemistry\\_-\\_A\\_European\\_Journal\\_cover.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/278932/4/Collin_et_al-2018-Chemistry_-_A_European_Journal_cover.pdf)

Amadio, E., González-Fabra, J., Carraro, D., Denis, W., Gjoka, B., Zonta, C., Bartik, K., Cavani, F., Solmi, S., Bo, C., & Licini, G. (2018). Efficient Vanadium-Catalyzed Aerobic C #C Bond Oxidative Cleavage of Vicinal Diols. *Advanced synthesis & catalysis*, 360(17), 3286-3296. doi:10.1002/adsc.201800050  
[https://dipot.ulb.ac.be/dspace/bitstream/2013/278273/4/Amadio\\_AdvSynthCatal2018\\_accepted.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/278273/4/Amadio_AdvSynthCatal2018_accepted.pdf)

[https://dipot.ulb.ac.be/dspace/bitstream/2013/278273/5/Amadio\\_Catalysis2018\\_Cover.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/278273/5/Amadio_Catalysis2018_Cover.pdf)

## 2016

Bartocci, S., Sabaté, F., Bosque, R., Keymeulen, F., Bartik, K., Rodríguez, L., & Dalla Cort, A. (2016). Colorimetric and fluorescence “turn-on” recognition of fluoride by a maleonitrile-based uranyl salen-complex. *Dyes and pigments*, 135, 94-101. doi:10.1016/j.dyepig.2016.06.006

[https://dipot.ulb.ac.be/dspace/bitstream/2013/237088/1/Elsevier\\_220715.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/237088/1/Elsevier_220715.pdf)

Brunetti, E., Moerkerke, S., Wouters, J., Bartik, K., & Jabin, I. (2016). A selective calix[6]arene-based fluorescent chemosensor for phosphatidylcholine type lipids. *Organic & biomolecular chemistry*, 14(43), 10201-10207. doi:10.1039/c6ob01880g

[https://dipot.ulb.ac.be/dspace/bitstream/2013/243788/3/Brunetti\\_OBC2016\\_accepted.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/243788/3/Brunetti_OBC2016_accepted.pdf)

[https://dipot.ulb.ac.be/dspace/bitstream/2013/243788/4/Brunetti\\_OBC2016.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/243788/4/Brunetti_OBC2016.pdf)

Retout, M., Valkenier, H., Triffaux, E., Doneux, T., Bartik, K., & Bruylants, G. (2016). Rapid and Selective Detection of Proteins by Dual Trapping Using Gold Nanoparticles Functionalized with Peptide Aptamers. *ACS sensors*, 1(7), 929-933. doi:10.1021/acssensors.6b00229

<https://dipot.ulb.ac.be/dspace/bitstream/2013/232946/3/MRetout-ACSSensors-corr.docx>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/232946/5/2016-Retout-ACSSensors.pdf>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/232946/4/acssensors.6b00229>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/232946/6/MRetout-ACSSensors-postprint.pdf>

Baca, M., De Vos, J., Bruylants, G., Bartik, K., Liu, X., Cook, K., & Eeltink, S. (2016). A comprehensive study to protein retention in hydrophobic interaction chromatography. *Journal of chromatography. B*. doi:10.1016/j.jchromb.2016.05.012

[https://dipot.ulb.ac.be/dspace/bitstream/2013/230101/3/2016JChromB\\_Baca\\_acceptedmanuscript.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/230101/3/2016JChromB_Baca_acceptedmanuscript.pdf)

[https://dipot.ulb.ac.be/dspace/bitstream/2013/230101/4/Elsevier\\_213728.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/230101/4/Elsevier_213728.pdf)

## 2015

Doyen, M., Goole, J., Bartik, K., & Bruylants, G. (2015). Amino Acid Induced Fractal Aggregation of Gold Nanoparticles: Why and How. *Journal of colloid and interface science*, 464, 160-166. doi:10.1016/j.jcis.2015.11.017

[https://dipot.ulb.ac.be/dspace/bitstream/2013/220531/4/Elsevier\\_204158.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/220531/4/Elsevier_204158.pdf)

[https://dipot.ulb.ac.be/dspace/bitstream/2013/220531/6/Doyen\\_JCIS2015\\_Proofs.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/220531/6/Doyen_JCIS2015_Proofs.pdf)

Cottin, H., Kotler, J. M., Bartik, K., Cleaves II, H. J., Cockell, C. S., De Vera, J.-P. P., Ehrenfreund, P., Leuko, S., Ten Kate, I. L., Martins, Z., Pascal, R., Quinn, R., Rettberg, P., & Westall, F. (2015). Astrobiology and the Possibility of Life on Earth and Elsewhere... *Space science reviews*. doi:10.1007/s11214-015-0196-1

[https://dipot.ulb.ac.be/dspace/bitstream/2013/221978/4/Cottin\\_2015Astrobiology\\_accepted.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/221978/4/Cottin_2015Astrobiology_accepted.pdf)

[https://dipot.ulb.ac.be/dspace/bitstream/2013/221978/3/Cottin2017\\_Article\\_AstrobiologyAndThePossibilityO.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/221978/3/Cottin2017_Article_AstrobiologyAndThePossibilityO.pdf)

Brunetti, E., Inthasot, A., Keymeulen, F., Reinaud, O., Jabin, I., & Bartik, K. (2015). Primary Amine Recognition in Water by a Calix[6]aza-cryptand Incorporated in Dodecylphosphocholine Micelles. *Organic & biomolecular chemistry*, 13, 2931-2938. doi:10.1039/C4OB02495H

 [https://dipot.ulb.ac.be/dspace/bitstream/2013/193936/3/OBC2015\\_Brunetti.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/193936/3/OBC2015_Brunetti.pdf)

Keymeulen, F., De Bernardin, P., Giannicchi, I., Galantini, L., Bartik, K., & Dalla Cort, A. (2015). Fluoride Binding in Water with the Use of Micellar Nanodevices Based on Salophen Complexes. *Organic & biomolecular chemistry*, 13, 2437-2443. doi:10.1039/C4OB02298J

 [https://dipot.ulb.ac.be/dspace/bitstream/2013/193935/3/OBC2015\\_Keymeulen.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/193935/3/OBC2015_Keymeulen.pdf)

#### 2014

Brunetti, E., Picron, J.-F., Flidrova, K., Bruylants, G., Bartik, K., & Jabin, I. (2014). Fluorescent Chemosensors for Anions and Contact Ion Pairs with a Cavity-Based Selectivity. *Journal of organic chemistry*, 79(13), 6179-6188. doi:10.1021/jo5009146

 [https://dipot.ulb.ac.be/dspace/bitstream/2013/172543/3/Brunetti\\_JOC2014.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/172543/3/Brunetti_JOC2014.pdf)

#### 2013

Keymeulen, F., De Bernardin, P., Dalla Cort, A., & Bartik, K. (2013). Paramagnetic Relaxation Enhancement Experiments: A Valuable Tool for the Characterization of Micellar Nanodevices. *Journal of Physical Chemistry B*, 117(39), 11654-11659. doi:10.1021/jp4076367

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/150405/1/jp4076367.pdf>

Doyen, M., Bartik, K., & Bruylants, G. (2013). DNA-Promoted Auto-Assembly of Gold Nanoparticles: Effect of the DNA Sequence on the Stability of the Assemblies. *Polymers*, 5(3), 1041-1055. doi:10.3390/polym5031041

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/146022/1/Polymers-Doyen.pdf>

 [https://dipot.ulb.ac.be/dspace/bitstream/2013/146022/4/doi\\_129881.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/146022/4/doi_129881.pdf)

Stroobants, K., Moelants, E., Ly, H. G. T., Proost, P., Bartik, K., & Parac-Vogt, T. N. (2013). Polyoxometalates as a Novel Class of Artificial Proteases: Selective Hydrolysis of Lysozyme under Physiological pH and Temperature Promoted by a Cerium(IV) Keggin-Type Polyoxometalate. *Chemistry*, 19(8), 2848-2858. doi:10.1002/chem.201203020

 [https://dipot.ulb.ac.be/dspace/bitstream/2013/145839/3/Stroobant\\_ChemEurJ2013.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/145839/3/Stroobant_ChemEurJ2013.pdf)

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/145839/4/145839.pdf>

Doyen, M., Bartik, K., & Bruylants, G. (2013). UV-Vis and NMR study of the formation of gold nanoparticles by citrate reduction: Observation of gold-citrate aggregates. *Journal of colloid and interface science*, 399, 1-5. doi:10.1016/j.jcis.2013.02.040

 [https://dipot.ulb.ac.be/dspace/bitstream/2013/142878/1/Elsevier\\_126467.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/142878/1/Elsevier_126467.pdf)

#### 2012

Goursaud, M., De Bernardin, P., Dalla Cort, A., Bartik, K., & Bruylants, G. (2012). Monitoring Fluoride Binding in DMSO: Why is a Singular Binding Behavior Observed? *European Journal of Organic Chemistry*, 19, 3570-3574. doi:10.1002/ejoc.201200165

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/117939/4/117939.pdf>

#### 2011

Vandenbussche, S., Reisse, J., Bartik, K., & Liévin, J. (2011). The search for a deterministic origin for the presence of non-racemic amino-acids in meteorites: a computational approach. *Chirality*, 23(5), 367-373. doi:10.1002/chir.20933

<https://dipot.ulb.ac.be/dspace/bitstream/2013/63884/4/63884.pdf>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/63884/5/>

[Vandenbussche\\_Chirality2011\\_accepted.pdf](#)

Bruylants, G., Bartik, K., & Reisse, J. (2011). Prebiotic chemistry : A fuzzy field. *Comptes rendus. Chimie*, 14, 388-391. doi:10.1016/j.crci.2010.04.002

[https://dipot.ulb.ac.be/dspace/bitstream/2013/63888/1/Elsevier\\_40576.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/63888/1/Elsevier_40576.pdf)

## 2010

Bruylants, G., Bartik, K., & Reisse, J. (2010). Is it useful to have a clear-cut definition of life? On the use of fuzzy logic in prebiotic chemistry. *Origins of life and evolution of the biosphere*, 40(2), 137-143. doi:10.1007/s11084-010-9192-3

<https://dipot.ulb.ac.be/dspace/bitstream/2013/54634/3/2010-Bruylants-OLEB.pdf>

## 2009

Bruylants, G., Bocconcelli, M., Snoussi, K., & Bartik, K. (2009). Comparison of the thermodynamics and base-pair dynamics of a full LNA:DNA duplex and of the isosequential DNA:DNA duplex. *Biochemistry*, 48(35), 8473-8482. doi:10.1021/bi900615z

<https://dipot.ulb.ac.be/dspace/bitstream/2013/54636/3/2009-Bruylants-Biochemistry-LNA.pdf>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/54636/4/>

[Bruylants\\_Biochem2009\\_accepted.pdf](#)

Locci, E., Roose, P., Bartik, K., & Luhmer, M. (2009). Probing polymer colloids by <sup>129</sup>Xe NMR. *Journal of colloid and interface science*, 330(2), 344-351. doi:10.1016/j.jcis.2008.10.061

[https://dipot.ulb.ac.be/dspace/bitstream/2013/54637/2/Locci-JCIS330\\_SI\\_2009.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/54637/2/Locci-JCIS330_SI_2009.pdf)

[https://dipot.ulb.ac.be/dspace/bitstream/2013/54637/1/Elsevier\\_30139.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/54637/1/Elsevier_30139.pdf)

## 2008

Cametti, M., Dalla Cort, A., & Bartik, K. (2008). Fluoride binding in water: a new environment for a known receptor. *ChemPhysChem*, 9(15), 2168-2171. doi:10.1002/cphc.200800412

[https://dipot.ulb.ac.be/dspace/bitstream/2013/54638/3/Cametti\\_CPC2008\\_accepted.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/54638/3/Cametti_CPC2008_accepted.pdf)

Vandenbussche, S., Díaz, D., Fernández-Alonso, M. C., Pan, W., Vincent, S. P., Cuevas, G., Cañada, F. J., Jiménez-Barbero, J., & Bartik, K. (2008). Aromatic-carbohydrate interactions: an NMR and computational study of model systems. *Chemistry*, 14(25), 7570-7578. doi:10.1002/chem.200800247

<https://dipot.ulb.ac.be/dspace/bitstream/2013/54639/3/54639.pdf>

Bruylants, G., Bartik, K., & Reisse, J. (2008). Catalysis by metalloenzymes and the origin of life. *Bulletin de la Classe des sciences. Académie royale de Belgique*, 19, 211-217.

<https://dipot.ulb.ac.be/dspace/bitstream/2013/55042/3/>

[Bruylants\\_Bull.Cl.Sciences2008.pdf](#)

## 2007

Bruylants, G., Wintjens, R., Looze, Y., Redfield, C., & Bartik, K. (2007). Protonation linked equilibria and apparent affinity constants: the thermodynamic profile of the alpha-chymotrypsin-proflavin interaction. *European biophysics journal*, 37(1), 11-18. doi:10.1007/s00249-007-0148-0

<https://dipot.ulb.ac.be/dspace/bitstream/2013/54640/3/2007-Bruylants-EurBiophysJ.pdf>

Bruylants, G., Redfield, C., & Bartik, K. (2007). Developments in the characterisation of the catalytic triad of alpha-chymotrypsin: Effect of the protonation state of Asp102 on the 1H NMR signals of His57. *ChemBioChem*, 8(1), 51-54. doi:10.1002/cbic.200600433

<https://dipot.ulb.ac.be/dspace/bitstream/2013/54641/3/2007-Bruylants-ChemBioChem.pdf>

## 2006

Segebarth, N., Aïtjeddig, L., Locci, E., Bartik, K., & Luhmer, M. (2006). Novel method for the measurement of xenon gas solubility using 129Xe NMR spectroscopy. *The Journal of Physical Chemistry. A*, 110(37), 10770-10776. doi:10.1021/jp062679k

[https://dipot.ulb.ac.be/dspace/bitstream/2013/54642/3/Segebarth\\_JPhysChem2006.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/54642/3/Segebarth_JPhysChem2006.pdf)

Huet, J., Looze, Y., Bartik, K., Raussens, V., Wintjens, R., & Boussard, P. (2006). Structural characterization of the papaya cysteine proteinases at low pH. *Biochemical and biophysical research communications*, 341(2), 620-626. doi:10.1016/j.bbrc.2005.12.210

[https://dipot.ulb.ac.be/dspace/bitstream/2013/54643/2/Elsevier\\_30145.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/54643/2/Elsevier_30145.pdf)

Bocconcelli, M., & Bartik, K. (2006). Oligonucléotides chimiquement modifiés : outils diagnostiques et agents thérapeutiques prometteurs. Méthodes permettant d'étudier leur stabilité et sélectivité d'appariement. *Chimie nouvelle*, 93, 101-108.

[https://dipot.ulb.ac.be/dspace/bitstream/2013/55043/3/Bocconcelli\\_ChimNouv2006.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/55043/3/Bocconcelli_ChimNouv2006.pdf)

Vandenbussche, S., Vandenbussche, G., Reisse, J., & Bartik, K. (2006). Do Serine Octamers Exist in Solution? Relevance of this Question in the Context of the Origin of Homochirality on Earth. *European Journal of Organic Chemistry*, 14, 3069-3073. doi:10.1002/ejoc.200600370

[https://dipot.ulb.ac.be/dspace/bitstream/2013/55157/1/Vandenbussche\\_et\\_al\\_2006\\_Eur\\_J\\_Org\\_Chem\\_3069.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/55157/1/Vandenbussche_et_al_2006_Eur_J_Org_Chem_3069.pdf)

<https://dipot.ulb.ac.be/dspace/bitstream/2013/55157/4/55157.pdf>

## 2005

Bruylants, G., & Bartik, K. (2005). Utilisation de la Calorimétrie à Titration Isotherme pour l'étude des interactions entre (bio)molécules. *Chimie nouvelle*, 88, 9-14.

<https://dipot.ulb.ac.be/dspace/bitstream/2013/55103/3/2005-ChimNouv-ITC.pdf>

Bartik, K., Choquet, P., Constantinesco, A., Duhamel, G., Fraissard, J., Hyacinte, J.-N., Jokisaari, J., Locci, E., Lowery, T. J., Luhmer, M., Meersmann, T., Moudrakovski, I. L., Pavlovskaya, G. E., Pierce, K. L., Pines, A., Ripmeester, J. A., Telkki, V.-V., & Veeman, W. S. (2005). Xenon NMR as a Probe for Microporous and Mesoporous Solids, Polymers, Liquid Crystals, Solutions, Flames, Proteins, Imaging. *L'Actualité chimique*, 287, 16-33. doi:10.1002/chin.200603280

[https://dipot.ulb.ac.be/dspace/bitstream/2013/55213/3/Bartik\\_ActuChimique2005.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/55213/3/Bartik_ActuChimique2005.pdf)

## 2004



Locci, E., Bartik, K., Segebarth, N., Luhmer, M., & Reisse, J. (2004). Stereochemical studies by molecular palpation. *Journal of physical organic chemistry*, 17(9), 787-792. doi:10.1002/poc.795

<https://dipot.ulb.ac.be/dspace/bitstream/2013/55108/3/55108.pdf>

## 2003

Locci, E., Reisse, J., & Bartik, K. (2003). The Potential of the Xenon "Spin-Spy" Methodology for the Study of Configurational Equilibria in Solution. *ChemPhysChem*, 4(3), 305-308. doi:10.1002/cphc.200390051

Bruylants, G., Bresson, C., Boisdenghien, A., Pierard, F., Kirsch-De Mesmaeker, A., Lacour, J., & Bartik, K. (2003). Comparison of the NMR enantiodifferentiation of a chiral ruthenium(II) complex of C<sub>2</sub> symmetry using the TRISPHAT anion and a lanthanide shift reagent. *New journal of chemistry*, 27(4), 748-751. doi:10.1039/b211419d

<https://dipot.ulb.ac.be/dspace/bitstream/2013/55112/1/Bruylants03NewJChem748.pdf>

## 2002

Locci, E., Casu, M., Saba, G., Lai, A., Reisse, J., & Bartik, K. (2002). The potential of <sup>129</sup>Xe NMR relaxation measurements for the study of heme proteins. *ChemPhysChem*, 3(9), 812-814. doi:10.1002/1439-7641(20020916)3:9<812::AID-CPHC812>3.0.CO;2-D

[https://dipot.ulb.ac.be/dspace/bitstream/2013/54646/3/Locci\\_ChemPhysChem2002.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/54646/3/Locci_ChemPhysChem2002.pdf)

Reisse, J., Bartik, K., & Cronin, J. R. (2002). On the Origin of Homochirality on Earth. *Bulletin de la Classe des sciences. Académie royale de Belgique*, 13, 97-106.

[https://dipot.ulb.ac.be/dspace/bitstream/2013/55115/3/Reisse\\_BullScience2002.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/55115/3/Reisse_BullScience2002.pdf)

Locci, E., Bartik, K., & Reisse, J. (2002). Origin of life: the role of water in the transition from non-living to living matter. *Chimie nouvelle*, 78, 58-62.

[https://dipot.ulb.ac.be/dspace/bitstream/2013/55117/3/Locci\\_ChimNouv2002.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/55117/3/Locci_ChimNouv2002.pdf)

## 2001

Locci, E., Dehouck, Y., Casu, M., Saba, G., Lai, A., Luhmer, M., Reisse, J., & Bartik, K. (2001). Probing proteins in solution by <sup>129</sup>Xe NMR spectroscopy. *Journal of magnetic resonance*, 150(2), 167-174. doi:10.1006/jmre.2001.2325

[https://dipot.ulb.ac.be/dspace/bitstream/2013/54651/3/Locci\\_JMR2001.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/54651/3/Locci_JMR2001.pdf)

<https://dipot.ulb.ac.be/dspace/bitstream/2013/54651/5/562d7eca-fd7a-4939-b44e-f025ae4d5b52.txt>

El Haouaj, M., Ko, Y. H., Luhmer, M., Kim, K., & Bartik, K. (2001). NMR Investigation of the complexation of neutral guests by cucurbituril. *Journal of the Chemical Society. Perkin Transactions 2*, 2104-2107. doi:10.1039/b105535f

El Haouaj, M., Luhmer, M., Ko, Y. H., Kim, K., & Bartik, K. (2001). NMR study of the reversible complexation of xenon by cucurbituril. *Journal of the Chemical Society. Perkin Transactions 2*, 5, 804-807. doi:10.1039/b008623l

[https://dipot.ulb.ac.be/dspace/bitstream/2013/55149/3/EIHaouaj\\_Perkin2.2001.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/55149/3/EIHaouaj_Perkin2.2001.pdf)

Bartik, K., Luhmer, M., Collet, A., & Reisse, J. (2001). Molecular polarization and molecular chiralization: The first example of a chiralized xenon atom. *Chirality*, 13(1), 2-6. doi:10.1002/1520-636X(2001)13:1<2::AID-CHIR2>3.0.CO;2-U

<https://dipot.ulb.ac.be/dspace/bitstream/2013/55151/3/55151.pdf>

## 2000

Reisse, J., Bartik, K., Fabre, O., & Vandercammen, J. (2000). About a Double-Body Immersion Horn System to be Used for Quantitative Sonochemical Studies. *The Journal of the Acoustical Society of America*, 108(2), 846-847. doi:doi/10.1121/1.429618

Bartik, K., El Haouaj, M., Luhmer, M., Collet, A., & Reisse, J. (2000). Can Monoatomic Xenon Become Chiral ? *ChemPhysChem*, 1(4), 221-224. doi:10.1002/1439-7641(20001215)1:4<221::AID-CPHC221>3.0.CO;2-E

[https://dipot.ulb.ac.be/dspace/bitstream/2013/55153/3/Bartik\\_ChemPhysChem2000.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/55153/3/Bartik_ChemPhysChem2000.pdf)

Reisse, J., & Bartik, K. (2000). A Brief Survey of Organic Matter in the Universe. *Chimie nouvelle*, 71, 3145-3150.

Cahen, P., Luhmer, M., Fontaine, C., Morat, C., Reisse, J., & Bartik, K. (2000). Study by <sup>23</sup>Na-NMR, <sup>1</sup>H-NMR, and Ultraviolet Spectroscopy of the Thermal Stability of an 11-basepair Oligonucleotide. *Biophysical journal*, 78, 1059-1069. doi:10.1016/S0006-3495(00)76664-1

[https://dipot.ulb.ac.be/dspace/bitstream/2013/126317/4/elsevier\\_107865.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/126317/4/elsevier_107865.pdf)

[https://dipot.ulb.ac.be/dspace/bitstream/2013/126317/3/Cahen\\_BiophysJ2000.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/126317/3/Cahen_BiophysJ2000.pdf)

## 1998

Bartik, K., Luhmer, M., Dutasta, J.-P., Collet, A., & Reisse, J. (1998). <sup>129</sup>Xe and <sup>1</sup>H NMR Study of the Reversible Trapping of Xenon by Cryptophane-A in Organic Solution. *Journal of the American Chemical Society*, 120(4), 784-791. doi:10.1021/ja972377j

<https://dipot.ulb.ac.be/dspace/bitstream/2013/73396/1/Bartik-JACS1998.pdf>

Dekerckheer, C., Bartik, K., Lecomte, J.-P., & Reisse, J. (1998). Pulsed Sonochemistry. *The Journal of Physical Chemistry. A*, 102(46), 9177-9182. doi:10.1021/jp982489c

[https://dipot.ulb.ac.be/dspace/bitstream/2013/55183/3/Dekerckheer\\_Sonochem1998.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/55183/3/Dekerckheer_Sonochem1998.pdf)

## 1997

Luhmer, M., & Bartik, K. (1997). Group Contribution Analysis of Xenon NMR Solvent Shifts. *The Journal of Physical Chemistry. A*, 101(29), 5278-5283. doi:10.1021/jp970464s

[https://dipot.ulb.ac.be/dspace/bitstream/2013/55185/3/Luhmer\\_JPhysChem1997.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/55185/3/Luhmer_JPhysChem1997.pdf)

## 1995

Bartik, K., Luhmer, M., Heyes, S. J., Ottinger, R., & Reisse, J. (1995). Probing molecular cavities in alpha-cyclodextrin solutions by Xenon NMR. *Journal of magnetic resonance. Series B*, 109(2), 164-168. doi:10.1006/jmrb.1995.0005

[https://dipot.ulb.ac.be/dspace/bitstream/2013/56513/3/Bartik\\_JMR1995.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/56513/3/Bartik_JMR1995.pdf)

## 1994

Bartik, K., Redfield, C., & Dobson, C. M. (1994). Measurement of the individual pKa values of acidic residues of hen and turkey lysozymes by two-dimensional <sup>1</sup>H NMR. *Biophysical journal*, 66(4), 1180-1184. doi:10.1016/S0006-3495(94)80900-2

[https://dipot.ulb.ac.be/dspace/bitstream/2013/54657/4/elsevier\\_30186.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/54657/4/elsevier_30186.pdf)



Luhmer, M., Bartik, K., Dejaegere, A. P., Bovy, P., & Reisse, J. (1994). The importance of quadrupolar interactions in molecular recognition processes involving a phenyl group. *Bulletin de la Société chimique de France*, 131(5), 603-606.

**1993**

Bartik, K., Dobson, C. M., & Redfield, C. (1993). <sup>1</sup>H-NMR analysis of turkey egg-white lysozyme and comparison with hen egg-white lysozyme. *European journal of biochemistry / FEBS*, 215(2), 255-266. doi:10.1111/j.1432-1033.1993.tb18030.x


Bartik, K., & Redfield, C. (1993). A method for the estimation of  $\phi$  torsion angles in proteins. *Journal of biomolecular NMR*, 3(4), 415-428. doi:10.1007/BF00176008

 [https://dipot.ulb.ac.be/dspace/bitstream/2013/55211/3/Bartik\\_JBiomNMR1993.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/55211/3/Bartik_JBiomNMR1993.pdf)

**1987**

Bartik, K., Braekman, J. C., Daloze, D., Stoller, C., Huysecom, J., Vandevyver, G., & Ottinger, R. (1987). Topsentins, new toxic bis-indole alkaloids from the marine sponge *Topsentia genitrix*. *Canadian journal of chemistry*, 65(9), 2118-2121. doi:10.1139/v87-352

 [https://dipot.ulb.ac.be/dspace/bitstream/2013/55212/3/Bartik\\_CanadianJChem1987.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/55212/3/Bartik_CanadianJChem1987.pdf)

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/55212/5/26a6c14a-eb06-4728-9695-f832f49ad7f5.txt>

**Non peer-reviewed journal articles**

**2005**

Debecker, B., & Bartik, K. (2005). Alice, son chat, le lait et la chiralité. *L'Artichaut*, 22(3), 33-36.

**1998**

Bartik, K., Kirsch-De Mesmaeker, A., & Reisse, J. (1998). L'Europe des laboratoires. *Lettre du FNRS*, 33, 2-16.

**Papers published in national and international conferences or symposium proceedings**

**2010**

Bruylants, G., Bartik, K., & Delplancke, M.-P. (2010). Growth kinetics and controlled auto-assembly of gold nanoparticles. *Actes de conference ECNF2010: European Conference on Nano Films*(22.03.2010 - 25.03.2010: Liège, Belgium)

**Research reports, book reviews, letters to the editor, working papers**

**2009**

Tudor, I., Bartik, K., & Valcke, J. (2009). *A discussion brief of content and language integrated learning (CLIL) at the Faculty of Applied Sciences*.

## Active participation in international conferences and symposiums

### 2020

Lambert, S., Bartik, K., & Jabin, I. (2020). *Specific Binding of Primary Ammonium Ions and Lysine-Containing Peptides in Protic Solvents by Hexahomotrioxacalix[3]arenes*. Poster session presented at 15th International Symposium on Macrocyclic and Supramolecular Chemistry (2020: Twitter (virtual poster competition)).

[https://dipot.ulb.ac.be/dspace/bitstream/2013/312059/3/Simon\\_Lambert-poster\\_ISMSC2020.png](https://dipot.ulb.ac.be/dspace/bitstream/2013/312059/3/Simon_Lambert-poster_ISMSC2020.png)

### 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).

<https://dipot.ulb.ac.be/dspace/bitstream/2013/299237/4/20191216posterBUs-MASC.pdf>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/299237/3/masc2019-oral-abstract-VALKENIER.pdf>

Lambert, S., Bartik, K., & Jabin, I. (2019). *Development of supramolecular systems for the recognition of primary ammonium ions in water*. Poster session presented at 14th International Symposium on Macrocyclic and Supramolecular Chemistry (2-6 juin 2019: Lecce, Italie).

[https://dipot.ulb.ac.be/dspace/bitstream/2013/310541/3/Simon\\_Lambert-poster\\_ISMSC\\_2019-V4.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/310541/3/Simon_Lambert-poster_ISMSC_2019-V4.pdf)

### 2018

Lambert, S., Marcelis, L. -. A., Bartik, K., & Jabin, I. (2018). *Development of photo-controlled calixarene-based molecular recognition systems*. Poster session presented at Young Belgian Magnetic Resonance Scientist (17th Edition: 06-07 décembre 2018: Spa, Belgique).

[https://dipot.ulb.ac.be/dspace/bitstream/2013/312113/3/Simon\\_Lambert-poster\\_YBMRS-kb-ij.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/312113/3/Simon_Lambert-poster_YBMRS-kb-ij.pdf)

Valkenier, H., Akrawi, O., Jur#ek, P., Sleziaková, K., Lízal, T., Sindelá#, 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.

Valkenier, H., Akrawi, O., Jur#ek, P., Sleziaková, K., Lízal, T., Sindelá#, 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.

<https://dipot.ulb.ac.be/dspace/bitstream/2013/284039/3/abstract-.pdf>

Valkenier, H., Akrawi, O., Jur#ek, P., Sleziaková, K., Lízal, T., Sindelá#, 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).

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 Febraury 2018: Brussels, Belgium).

[https://dipot.ulb.ac.be/dspace/bitstream/2013/271356/3/Abstract\\_Valkenier.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/271356/3/Abstract_Valkenier.pdf)

## 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.

<https://dipot.ulb.ac.be/dspace/bitstream/2013/263621/3/YBMRS2K17.pdf>

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).

<https://dipot.ulb.ac.be/dspace/bitstream/2013/263607/3/2017posterRuG.pdf>

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.

[https://dipot.ulb.ac.be/dspace/bitstream/2013/263623/3/poster\\_SRC\\_2017.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/263623/3/poster_SRC_2017.pdf)

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.

<https://dipot.ulb.ac.be/dspace/bitstream/2013/263625/3/poster-EDT-CHIM17.pdf>

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).

[https://dipot.ulb.ac.be/dspace/bitstream/2013/263619/3/symposium\\_seminar.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/263619/3/symposium_seminar.pdf)

## 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).

<https://dipot.ulb.ac.be/dspace/bitstream/2013/263618/3/YBMRS2K16.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](https://dipot.ulb.ac.be/dspace/bitstream/2013/263624/3/ISMSC2016-Poster_Glenn.pdf)

## 2015

Grauwels, G., Keymeulen, F., Amadio, E., Licini, G., & Bartik, K. (2015). *Development of Vanadium-based Micellar Catalyst for C-C Oxidative Cleavage*. Poster session presented at YBMRS.

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/263626/3/YBMRS-2015.pdf>

Keymeulen, F., Galantini, L., Dalla Cort, A., & Bartik, K. (2015). *Key factors which govern fluoride recognition by supramolecular micelle/receptor systems in water*. Paper session presented at COST Acyion CM1055 Final conference (6-8 février 2015: Prague).

Doyen, M., Bartik, K., & Bruylants, G. (2015). *Amino acid-induced aggregation of gold colloids: the why and the now?* Paper session presented at COST Action CM1005 Final Conference (6-8 février 2015: Prague).

## 2014

Doyen, M., Bartik, K., & Bruylants, G. (2014). *Physico-chemical characterization of the interaction between gold nanoparticles and amino acids: why and when is an anisotropic aggregation observed?* Poster session presented at 4th International Colloids Conference (16 to 18 June 2014: Madrid, Spain).

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/174376/1/DoyenPosterMadrid2014.pdf>

## 2013

Doyen, M., Bartik, K., & Bruylants, G. (2013). *Study of the interaction between gold nanoparticles and biomolecules : physico-chemical characterization*. Paper session presented at Supramolecular gels and micelles as potential environments for molecular recognition and catalysis in water - CMST COST Action CM1005 (10-11 May 2013: Rome, Italy).

Keymeulen, F., De Bernardin, P., Dalla Cort, A., & Bartik, K. (2013). *Micellar nanodevices for analyte recognition in water : physico-chemical characterization*. Paper session presented at Molecular recognition of anions and other analytes in water and at the interphase - COST Action CM1005 (2-3 mai 2013: Leuven, Belgium).

Brunetti, E., Bidegaray, A., Bruylants, G., Jabin, I., Reinaud, O., & Bartik, K. (2013). *Input of EXSY 1D NMR spectroscopy to understand guest exchange mechanism of calyx[6]arene tris-imidazole Zinc receptors*. Paper session presented at Supramolecular gels and micelles as potential environments for molecular recognition and catalysis in water - CMST COST Action CM1005 (10-11 mai 2013: Rome, Italy).

Keymeulen, F., De Bernardin, P., Goursaud, M., Bruylants, G., Dalla Cort, A., & Bartik, K. (2013). *Physico-chemical characterization of a uranyl-salophen receptor incorporated in different types of micelles*. Paper session presented at Supramolecular gels and micelles as potential environments for molecular recognition and catalysis in water - CMST COST Action CM1005 (10-11 mai 2013: Rome, Italy).

Doyen, M., Bartik, K., & Bruylants, G. (2013). *Physico-chemical characterization of the interaction between gold nanoparticles and biomolecules*. Paper session presented at CMST COST Action CM1005 (21-23 march 2013: Brussels, Belgium).

Bidegaray, A., Brunetti, E., & Bartik, K. (2013). *Study of the enantiomerization barrier and guest exchange dynamics of calix[6]arene based tris(imidazole) Zn receptors*. Paper session presented at Biomimetic calix[6]arene based receptors - COST Action CM1005 (21-23 mars 2013: Brussels, Belgium).

Brunetti, E., Picron, J.-F., Jabin, I., & Bartik, K. (2013). *Characterization of the affinity of calix[6]tris-ureas receptors for ion pairs and triads*. Paper session presented at Biomimetic calix[6]arene based receptors - COST Action CM1005 (21-23 mars 2013: Brussels, Belgium).

Keymeulen, F., De Bernardin, P., Dalla Cort, A., & Bartik, K. (2013). *Study of the behavior of different micelles/receptors supramolecular systems for fluoride recognition in water*. Paper session presented at Biomimetic calix[6]arene based receptors - COST Action CM1005 (21-23 mars 2015: Brussels, Belgium).

Bartik, K. (2013). *NMR Techniques in Supramolecular Chemistry*. Paper session presented at e-WISPOC 2013 (27 janvier-1er février 2013: Bressanone, Italy).

## 2012

Doyen, M., Bartik, K., & Bruylants, G. (2012). *Input of diffusion ordered NMR spectroscopy (DOSY) to elucidate the growth mechanism of gold nanoparticles*. Poster session presented at Young Belgian Magnetic Resonance Scientist (11th: 26-27 November 2012: Spa, Belgium).

<https://dipot.ulb.ac.be/dspace/bitstream/2013/146511/1/2.pdf>

Doyen, M., Bartik, K., & Bruylants, G. (2012). *Oligonucleotides-Promoted Auto-Assembly of Gold Nanoparticles*. Paper session presented at Supramolecular Chemistry in Water - CMST COST Action CM1005 (16-20 Novembre 2012: Lisbonne, Portugal).

Doyen, M., Bartik, K., & Bruylants, G. (2012). *Input of NMR spectroscopy to elucidate the growth mechanism of gold nanoparticles by citrate reduction*. Paper session presented at 11th Young Belgian Magnetic Resonance Scientists Symposium (26-27 novembre 2012: Spa, Belgium).

Bartik, K. (2012). *Thermodynamic and structural studies of chemically modified oligonucleotide duplexes*. Paper session presented at IUPAC Division 1 Off-year Meeting (8-10 juin 2012: Tokyo, Japan).

Bartik, K. (2012). *Water: the molecule, the solvent*. Paper session presented at First Training School of COST CM1005 "Supramolecular Chemistry in Water" (16-19 avril 2012: Riccione, Italy).

## 2011

De Bernardin, P., Bruylants, G., Dalla Cort, A., & Bartik, K. (2011). *Anion Binding in Water: the Potential of Micelles*. Paper session presented at COST Action CM1005 First conference (19-21 novembre 2011: Frascati, Italy).

Doyen, M., Bartik, K., & Bruylants, G. (2011). *DNA-Controlled Self Assembly of Gold Nanoparticles*. Poster session presented at International Symposium on Advanced Complex Inorganic Nanomaterials (11-14/09/2011: Namur).

 [https://dipot.ulb.ac.be/dspace/bitstream/2013/98317/1/Poster\\_ACIN\\_2011.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/98317/1/Poster_ACIN_2011.pdf)

Bartik, K. (2011). *L'eau et la vie*. Paper session presented at Rencontres Exobiologiques pour Doctorants 2011 (6-12 février 2011: Le Teich, France).

## 2010

Bruylants, G., Bartik, K., & Delplancke, M.-P. (2010). *Controlled self-assembly of gold nanoparticles using nucleic acids*. Poster session presented at Inaugural Meeting « Nanowal » - Wallonia Network for Nanotechnologies (10 décembre 2010: Louvain-la-Neuve (Belgique)).

Bruylants, G., Bartik, K., & Reisse, J. (2010). Fuzzy-Logic and the Search for a Definition of Life. In G. Horneck (Ed.), *In Homage to Darwin's Theory of Evolution: Prebiotic Chemical Evolution: Vol. 40* (pp. 513-513) Origin of Life and Evolution of Biospheres.

 [https://dipot.ulb.ac.be/dspace/bitstream/2013/88307/3/EANA\\_Bruylants.ppt](https://dipot.ulb.ac.be/dspace/bitstream/2013/88307/3/EANA_Bruylants.ppt)

Goursaud, M., Bruylants, G., De Bernardin, P., & Bartik, K. (2010). *TBAF in Organic Solvents: a Brain Teaser*. Poster session presented at Journée Scientifique annuelle de la Société Royale de Chimie : La Chimie Verte (14 octobre 2010: Gembloux (Belgique)).

Van Gasse, B., Gheerardijn, V., Bruylants, G., Bartik, K., Madder, A., & Martins, J. (2010). *Investigation of the Base-Pair Opening Dynamics of a DNA:DNA Duplex Containing a T.T Mismatch*. Poster session presented at Discussion Meeting and Joint Benelux/German MR Conference(32nd) (20-23 September 2010: Münster (Germany)).

Goursaud, M., Bruylants, G., De Bernardin, P., & Bartik, K. (2010). *TBAF in organic solvents: a brain teaser*. Poster session presented at Discussion Meeting and Joint Benelux/German MR Conference (32nd: 20-23 septembre 2010: Münster (Allemagne)).

De Bernardin, P., Galantini, L., Giuliani, C., Bruylants, G., Bartik, K., & Dalla Cort, A. (2010). *NMR study of salophen-micelle systems*. Poster session presented at Discussion Meeting and Joint Benelux/German MR Conference (32nd: 20-23 septembre 2010: Münster (Allemagne)).

Bartik, K. (2010). *Thermodynamic and structural studies of chemically modified oligonucleotide duplexes*. Paper session presented at Giornate di Chimica Organica Fisica e Meccanicistica (COFEM 2010) (2-4 septembre 2010: Rome (Italie)).

Bruylants, G., Van Gasse, B., Martins, J., Matagne, A., & Bartik, K. (2010). *Probing the effect of LNA nucleotides on the local dynamics of oligonucleotide duplexes by magnetisation transfer experiments*. Poster session presented at Discussion Meeting and Joint Benelux/German MR Conference (32nd: 20-23 septembre 2010: Münster (Allemagne)).

De Bernardin, P., Galantini, L., Giuliani, C., Bruylants, G., Bartik, K., & Dalla Cort, A. (2010). *Physico-chemical characterization of uranyl-salophen micellar systems*. Poster session presented at ISMSC 2010 (6-10 juin 2010: Nara (Japon)).

Bartik, K., Bruylants, G., Dalla Cort, A., De Bernardin, P., Galantini, L., & Giuliani, C. (2010). *Studio chimico-fisico di sistemi salofen uranile micella per il riconoscimento di*



*specie anioniche*. Poster session presented at Convegno Giovani Chimici (IV: 16-17 juin 2010: Rome (Italie)).

Bruylants, G., Bartik, K., & Delplancke, M.-P. (2010). *Growth Kinetics and Controlled Auto-Assembly of Gold Nanoparticles*. Paper session presented at ENCF 2010 : European Conference on Nano Films (2010-03-22 au 2010-03-25: Liège, Belgique).

<https://dipot.ulb.ac.be/dspace/bitstream/2013/74679/1/Gbruylants-ECNF-FullPaper.pdf>

De Bernardin, P., Cametti, M., Bruylants, G., Dalla Cort, A., & Bartik, K. (2010). *Anion Recognition in Water*. Poster session presented at E-WISPOC 2010 (30 janvier-5 février 2010: Bressanone (Italie)).

## 2009

De Bernardin, P., Cametti, M., Bruylants, G., Dalla Cort, A., & Bartik, K. (2009). *Recognition of fluoride in water*. Poster session presented at Congresso Nazionale di Chimica Supramolecolare (IX: 6-9 septembre 2009: Parma (Italie)).

Bartik, K. (2009). *Origin of Homochirality on Earth Delving into Space*. Paper session presented at 5th Interdisciplinary Symposium on Biological Chirality (2-4 septembre 2009: Brescia (Italie)).

Cametti, M., De Bernardin, P., Dalla Cort, A., & Bartik, K. (2009). *Fluoride Recognition in Water*. Poster session presented at EUCHEM Conference on Stereochemistry (44: 17-22 mai 2009: Brunnen (Suisse)).

Bruylants, G., Bartik, K., Godet, S., & Delplancke, M.-P. (2009). *The Role of Non-Covalent Interactions in the Self-Assembly of Hybrid Organic/Inorganic Nanoparticles into Superlattices*. Paper session presented at Hybrid and Self-Assembly Workshop (2009-03-12: Bruxelles, Belgique).

De Bernardin, P., Cametti, M., Bruylants, G., Dalla Cort, A., & Bartik, K. (2009). *Fluoride Recognition in Water*. Poster session presented at Learning Organic Synthesis Tremendously (LOST II) (2: 18-20 mars 2009: Namur (Belgique)).

Goursaud, M., Delplancke, M.-P., & Bartik, K. (2009). *Soft chemistry for sensor encapsulation*. Poster session presented at Learning Organic Synthesis Tremendously (LOST II) (2: 18-20 mars 2009: Namur (Belgique)).

## 2008

Bruylants, G., Snoussi, K., & Bartik, K. (2008). *Stability, pairing selectivity and dynamics of natural and chemically modified oligonucleotide duplexes*. Poster session presented at International Conference on Magnetic Resonance in Biological Systems (XXIII: 24-29 août 2008: San Diego (USA)).

## 2007

Bartik, K. (2007). *The use of Xe-NMR to study molecular systems in solution*. Paper session presented at COST D31 Workshop "Organizing non-covalent chemical systems with selected functions" (16-18 décembre 2007: Valencia (Espagne)).

Vandenbussche, S., Reisse, J., & Bartik, K. (2007). *Etude par RMN des interactions entre sucres et acides aminés : Relevance dans la sélection du #-D-ribofuranose comme*

*composant de l'ARN*. Poster session presented at Exobio'07 – Des soleils à la vie : où, quand, comment ? (22-29 septembre 2007: Propriano (Corse)).

Cametti, M., Dalla Cort, A., Mandolini, L., & Bartik, K. (2007). *Towards Selective Receptors for Fluoride Anions in Water*. Poster session presented at COST D31 Workshop : Organising Non-covalent Chemical Systems with Selected Functions (28-31 mars 2007: Athènes (Grèce)).

## 2006

Bruylants, G., Bartik, K., & Redfield, C. (2006). *Study of the protein backbone dynamics by NMR Spectroscopy: Comparison of the homologous proteins hen lysozyme and human  $\beta$ -lactalbumin*. Poster session presented at Meeting of the Belgian Society of Biochemistry and Molecular Biology (194th: 18 décembre 2006: Gembloux (Belgique)).

Bartik, K. (2006). *Study of the stability, selectivity and dynamics of natural and modified oligonucleotides*. Paper session presented at COST D31 Workshop "Organizing non-covalent chemical systems with selected functions" (12-14 novembre 2006: Roma (Italie)).

Vandenbussche, S., Pan, W., Vincent, S. P., & Bartik, K. (2006). *NMR Study of Interactions between Sugars and Aromatic Amino-acids*. Poster session presented at International Conference of Magnetic Resonance in Biological Systems (ICMRBS) (XXII: 20-25 août 2006: Göttingen (Allemagne)).

Bocconelli, M., Miller, S., Snoussi, K., & Bartik, K. (2006). *Stability, Pairing Selectivity and Dynamics of a LNA-DNA Oligonucleotide Duplex*. Poster session presented at International Conference of Magnetic Resonance in Biological Systems (ICMRBS) (XXII: 20-25 août 2006: Göttingen (Allemagne)).

Bruylants, G., Redfield, C., & Bartik, K. (2006). *Evaluation by NMR & ITC of Protonation Equilibria Linked to Protein-ligand Interactions*. Poster session presented at CCPN Meeting (6th: 28-30 juillet 2006: Ambleside (UK)).

Bocconelli, M., Miller, S., & Bartik, K. (2006). *Study of the stability and pairing selectivity of modified oligonucleotide duplexes*. Poster session presented at French-Benelux GERM meeting on Magnetic Resonance (19-22 mars 2006: Blankenberge (Belgique)).

Vandenbussche, S., Vandenbussche, G., Reisse, J., & Bartik, K. (2006). *An NMR Investigation of Serine Clustering in Solution: Implications for the Origin of Homochirality on Earth*. Poster session presented at French-Benelux GERM meeting on Magnetic Resonance (19-22 mars 2006: Blankenberge (Belgique)).

## 2005

Bartik, K. (2005). *Study by NMR and ITC of enzyme-inhibitor complexes*. Paper session presented at COST D31 Workshop "Organizing non-covalent chemical systems with selected functions" (13-15 décembre 2005: Frascati (Italie)).

Vandenbussche, S., Vandenbussche, G., Reisse, J., & Bartik, K. (2005). *Etude par RMN et spectrométrie de masse des clusters de sérine*. Poster session presented at Assemblée Générale de la Société royale de Chimie (6 octobre 2005: Louvain-la-Neuve (Belgique)).

Vandenbussche, S., Vandenbussche, G., Reisse, J., & Bartik, K. (2005). *Etude de l'auto-assemblage des sérines en solutions*. Poster session presented at Exobio'05. L'eau, la vie, la survie: des origines à nos jours (24 septembre-1 octobre 2005: Propriano (Corse)).

Bocconelli, M., & Bartik, K. (2005). *Etude de la stabilité de la structure double-brin d'oligonucléotides naturels et modifiés*. Poster session presented at Exobio'05. L'eau, la vie, la survie: des origines à nos jours (24 septembre-1 octobre 2005: Propriano (Corse)).

Bartik, K. (2005). *The role of water in the structure and function of biological macromolecules*. Paper session presented at Ecole thématique du CNRS Exobio'05: « L'eau, la vie, la survie » (24 septembre-1 octobre 2005: Propriano (Corse)).

Bruylants, G., & Bartik, K. (2005). *Contribution of Isothermal Titration Calorimetry to the Study of Protonation Equilibria Linked to Protein-ligand Interactions*. Poster session presented at Meeting the Challenges of Drug Discovery; Keystone Symposium (15-20 janvier 2005: Vancouver (Canada)).

#### 2004

Bocconelli, M., & Bartik, K. (2004). *Thermal Denaturation Studies of Oligonucleotides: Comparison of Different Techniques*. Poster session presented at Assemblée Générale de la Société royale de Chimie (7 octobre 2004: Liège (Belgique)).

Bruylants, G., & Bartik, K. (2004). *Dissecting Apparent Affinity Constants by Isothermal Titration Calorimetry*. Poster session presented at Assemblée Générale de la Société royale de Chimie (7 octobre 2004: Liège (Belgique)).

Bocconelli, M., Vandercammen, J., Debecker, B., & Bartik, K. (2004). *Study of the Stability of a 12 Base-pair Self-complementary Oligonucleotide by DSC, NMR and Absorption Spectroscopy*. Poster session presented at Applications of Biocalorimetry (IV: 31 août-3 septembre 2004: Budapest (Hongrie)).

Bruylants, G., Wylock, C., & Bartik, K. (2004). *Influence of the Protonation Effect on the Thermodynamic Parameters Characterizing the Interaction between Chymotrypsin and Proflavin*. Poster session presented at Applications of Biocalorimetry (IV: 31 août-3 septembre 2004: Budapest (Hongrie)).

Bruylants, G., & Bartik, K. (2004). *Thermodynamic, Intrinsic and Apparent Affinity Constants*. Paper session presented at Applications of Biocalorimetry IV (31 août-3 septembre 2004: Budapest, Hungary).

#### 2003

Segebarth, N., Aïtjeddig, L., Locci, E., Bartik, K., & Luhmer, M. (2003). *Measurements of Xenon Gas Solubility in Liquids by Xe-129 NMR*. Poster session presented at XeMAT 2003-International Symposium on Xenon NMR of Materials (29-31 mai 2003: La Colle-sur-Loup (France)).

Bruylants, G., Dehon, G., Wintjens, R., Looze, Y., & Bartik, K. (2003). *Calorimetric and Spectroscopic Study of the Interaction between Proflavin and Various Proteases*. Poster session presented at Biocalorimetry 2003: Current Trends in Microcalorimetry (24-26 juillet 2003: Boston (USA)).

Locci, E., Luhmer, M., Reisse, J., & Bartik, K. (2003). *The Xenon*. Poster session presented at XeMAT-International Symposium on Xenon NMR of Materials (29-31 mai 2003: La Colle-sur-Loup (France)).

Bartik, K. (2003). *The use of Xe NMR spectroscopy to obtain thermodynamic and kinetic information on systems in solution*. Paper session presented at International symposium on Xe NMR of materials (29-31 mai 2003: La Colle-sur-Loup (France)).

## 2000

Locci, E., Casu, M., Saba, G., Lai, A., Luhmer, M., Reisse, J., & Bartik, K. (2000). *Probing Protein Cavities and Surfaces by Xe-129 NMR Spectroscopy*. Poster session presented at International Conference on Magnetic Resonance in Biological Systems (XIX: 20-25 août 2000: Firenze (Italy)).

Locci, E., Casu, M., Saba, G., Lai, A., Luhmer, M., Dehouck, Y., Reisse, J., & Bartik, K. (2000). *Probing Protein Cavities and Surfaces by Xe-129 NMR Spectroscopy*. Poster session presented at XeMAT 2000-Optical Polarization and Xenon NMR of Materials (28-30 juin 2000: Sestri Levante (Italy)).

Cahen, P., Bartik, K., Luhmer, M., & Reisse, J. (2000). *Na-23 and H-1 NMR study of the stability and dynamics of double stranded oligonucleotides*. Poster session presented at Computational Biophysics 2000 (13-15 juin 2000: Nice (France)).

## 1999

Bartik, K. (1999). *Dynamical Aspects of NMR*. Paper session presented at Photon-Matter Interactions : Concerto for Fourier Transforms (22-26 novembre 1999: Bruxelles (Belgique)).

Bartik, K., Luhmer, M., Dutasta, J.-P., Collet, A., & Reisse, J. (1999). *Xe NMR to probe hydrophobic cavities*. Poster session presented at EUCHEM Conference on Stereochemistry - Burgenstock (34: 24-30 avril 1999: Brunnen (Suisse)).

Bartik, K. (1999). *On the Frequency Effect and Solvent Effect in Sonochemistry*. Paper session presented at 137th Meeting of the Acoustical Society of America (14-19 mars 1999: Berlin (Allemagne)).

## 1998

Eulaerts, O., Bartik, K., Vandercammen, J., & Reisse, J. (1998). *Physical chemical study of the liquid-vapor interface of the cavitation bubbles*. Poster session presented at Meeting of the European Society of Sonochemistry (6: 10-14 mai 1998: Rostock (Allemagne)).

Bartik, K. (1998). *Probing Molecular Cavities in Supramolecules by Xe NMR*. Paper session presented at Journées Franco-belges de Chimie Organique (26-27 mars 1998: Bruxelles (Belgique)).

## 1997

Bartik, K. (1997). *Comparison between Sonochemistry and Coronachemistry*. Paper session presented at NATO Advanced Study Institute: "Sonochemistry and Sonoluminescence" (18-29 août 1997: Washington (USA)).

Bartik, K. (1997). *Comparison between Sonication and Cold Plasma Discharges for Water Treatment*. Paper session presented at COST D6 Workshop: "Chemistry and Biochemistry under Extreme Conditions" (1-3 juin 1997: Santorini (Grèce)).

Bartik, K. (1997). *RMN des gaz rares*. Paper session presented at XVe Congrès du Groupe d'Etudes en Résonance Magnétique (GERM) (11-16 mai 1997: St Pierre d'Oléron (France)).

Cahen, P., Bartik, K., Luhmer, M., & Reisse, J. (1997). *<sup>23</sup>Na Studies of the stability of double stranded oligonucleotides*. Poster session presented at CERC3 Workshop: Biomolecules. From Structure to Chemical Reactivity (12-16 avril 1997: Grenoble (France)).

Bartik, K. (1997). *Biomolecules and NMR of Monoatomic Species*. Paper session presented at CERC3 Workshop: "Biomolecules: from Structure to Chemical Reactivity" (12-16 avril 1997: Grenoble (France)).

#### 1994

Bartik, K., Luhmer, M., & Reisse, J. (1994). *Probing hydrophobic cavities by xenon NMR*. Poster session presented at Experimental Nuclear Magnetic Resonance Conference (35: 10-15 avril 1994: Asilomar (USA)).

#### 1993

Bartik, K. (1993). *Xenon NMR Spectroscopy and Protein Structure*. Paper session presented at EEC Human Capital and Mobility Workshop: "The Dynamics of Protein Structure" (9-12 octobre 1993: Munich (Allemagne)).

#### 1992

Bartik, K., Redfield, C., & Dobson, C. M. (1992). *Comparison of solution and X-ray structures of proteins using coupling constants*. Poster session presented at International Conference on Magnetic Resonance in Biological Systems (XV: 16-21 août 1992: Jerusalem (Israël)).

#### 1991

Bartik, K., Redfield, C., & Dobson, C. M. (1991). *Estimating alpha-beta coupling constants from NH-alphaCH crosspeak fine structure*. Poster session presented at Keystone Symposia: Frontiers of NMR in Molecular Biology (8-14 avril 1991: Colorado (USA)).

#### 1990

Bartik, K., Redfield, C., & Dobson, C. M. (1990). *NMR studies of turkey lysozyme*. Poster session presented at International Conference on Magnetic Resonance in Biological Systems (XIV: 9-14 septembre 1990: University of Warwick (UK)).

Bartik, K. (1990). *The Study of Mutant Proteins by NMR*. Paper session presented at IMP Vienna Workshop: "Protein Structure and Dynamics in Theory and Experiment" (4-7 septembre 1990: Spitz (Autriche)).

#### 1987

Bartik, K. (1987). *The Controlled Separation of Odor-Active Compounds Using Gas Chromatography*. Paper session presented at 194th A.C.S National Meeting (31 août-4 septembre 1987: New Orleans (USA)).

## Theses and master's dissertations

1992

Bartik, K. (1992). *Nuclear magnetic resonance studies of turkey egg white lysozyme in solution* (Unpublished doctoral dissertation). Université libre de Bruxelles, Faculté des sciences, Bruxelles.

<https://dipot.ulb.ac.be/dspace/bitstream/2013/212943/3/016923d0-0048-4ac7-bb20-a87e797175c8.txt>

1988

Bartik, K. (1988). *Partial chemical characterization of the odor-active volatiles of Cortland apples* (Unpublished master's thesis). Ithaca, NY (USA): Cornell University.

1986

Bartik, K. (1986). *Etude de la structure moléculaire des ichtyotoxines de l'éponge *Topsentia genitrix** (Unpublished master's thesis). Bruxelles: Université libre de Bruxelles.

## Miscellaneous

2005

Bartik, K. (2005). *The role of water in the structure and function of biological macromolecules*.

## Direction of Ph.D.

2020

Denis, W. (2020). *Towards Lignin Valorisation: Development of Vanadium-based Catalytic Systems for C-C Oxidative Cleavage in H<sub>2</sub>O* (Unpublished doctoral dissertation). Università di Padova, DISC - Dottore di ricerca in Scienze Molecolari, Ecole polytechnique de Bruxelles – Chimie et Science des Matériaux, Bruxelles.

[https://dipot.ulb.ac.be/dspace/bitstream/2013/312797/4/Final\\_Thesis\\_DENIS\\_William.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/312797/4/Final_Thesis_DENIS_William.pdf)

[https://dipot.ulb.ac.be/dspace/bitstream/2013/312797/3/thesis\\_table\\_contents\\_DENIS\\_William.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/312797/3/thesis_table_contents_DENIS_William.pdf)

<https://dipot.ulb.ac.be/dspace/bitstream/2013/312797/5/contratWD.pdf>

Grauwels, G. (2020). *Physico-Chemical Characterisation of Chloride Transmembrane Transport using Calix[6]arene-based Receptors* (Unpublished doctoral dissertation). Université libre de Bruxelles, Ecole polytechnique de Bruxelles – Chimie et Science des Matériaux, Bruxelles.

<https://dipot.ulb.ac.be/dspace/bitstream/2013/311902/4/TableofContents.pdf>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/311902/3/PhDThesisGlennGrauwels.pdf>



 <https://dipot.ulb.ac.be/dspace/bitstream/2013/311902/5/contratGG.pdf>

## 2016

Brunetti, E. (2016). *Development and physicochemical characterization of calix[6]arene based chemical recognition systems* (Unpublished doctoral dissertation). Université libre de Bruxelles, Ecole polytechnique de Bruxelles – Chimie et Science des Matériaux, Bruxelles.

 [https://dipot.ulb.ac.be/dspace/bitstream/2013/240961/4/These\\_finale\\_DiFFUision.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/240961/4/These_finale_DiFFUision.pdf)

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/240961/3/TableofContentDif.docx>

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/240961/5/ContratEB.pdf>

Keymeulen, F. (2016). *Development and physico-chemical characterization of supramolecular systems for anion recognition in aqueous media* (Unpublished doctoral dissertation). Université libre de Bruxelles, Ecole polytechnique de Bruxelles – Chimie et Science des Matériaux, Bruxelles.

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/223788/3/TableofContents.pdf>


 <https://dipot.ulb.ac.be/dspace/bitstream/2013/223788/4/PhDThesisFloreKeymeulenFinal.pdf>

[PhDThesisFloreKeymeulenFinal.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/223788/4/PhDThesisFloreKeymeulenFinal.pdf)

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/223788/5/contratdifusionFK.pdf>

## 2013

Goursaud, M. (2013). *Contribution to the development of nano-systems for the recognition of fluoride in water* (Unpublished doctoral dissertation). Université libre de Bruxelles, Ecole polytechnique de Bruxelles – Chimie et Science des Matériaux, Bruxelles.

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/209378/1/c3c09e43-cc61-4975-9fb1-a7faf8880353.txt>

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/209378/4/bb355c43-f6e4-476e-bb0d-4b504e299de6.txt>

## 2012

De Bernardin, P. (2012). *Preparation and physico-chemical characterization of supramolecular fluoride receptors based on uranyl-salophen complexes incorporated within micelles* (Unpublished doctoral dissertation). Université libre de Bruxelles, Ecole polytechnique de Bruxelles – Chimie et Science des Matériaux, Bruxelles.

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/209671/9/2d9f9d7c-7d44-4c3f-ab73-2b3130256286.txt>


 <https://dipot.ulb.ac.be/dspace/bitstream/2013/209671/1/2bee31a4-e809-48a4-acf3-d3be9f643847.txt>

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/209671/2/8d144457-146a-4450-9336-d323fd2fdb31.txt>

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/209671/3/528aaef1-ff51-4e33-904d-4b928555bbd8.txt>

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/209671/4/442155d5-ae59-47e1-8715-589c37be38c6.txt>

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/209671/5/ec1531cf-469d-402a-82bd-8ba4f28f32a4.txt>

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/209671/6/cd860a89-8214-432e-bb0c-409d85e3b99e.txt>

## 2009

Vandenbussche, S. (2009). *Origin of homochirality on Earth: experimental and theoretical investigations* (Unpublished doctoral dissertation). Université libre de Bruxelles, Faculté des sciences appliquées – Chimie, Bruxelles.

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210362/5/81ee72ce-1066-4f1d-a0b5-f8c80e0de38a.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210362/1/223551f6-450e-476c-a948-feb0f4c1e230.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210362/2/e6293e7a-e36b-4f25-b8f0-7fb700258a3c.txt>

## 2008

Bocconelli, M. (2008). *Etude expérimentale de la stabilité, sélectivité d'appariement et dynamique d'oligonucléotides DNA-DNA et LNA-DNA* (Unpublished doctoral dissertation). Université libre de Bruxelles, Faculté des sciences appliquées – Chimie, Bruxelles.

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210549/1/9048961c-8dc2-4751-adb0-24ebee13692c.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210549/2/17318462-6a07-49ca-bdfc-0db4c9d658c0.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210549/3/a9979f57-f707-4608-8c9e-8ae1089530df.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210549/4/86b1230c-18fb-4f3b-b7cf-9c561dfe6687.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210549/5/bd84c6cd-df26-400d-97df-bef0f9f6c289.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210549/6/f759d873-ae3b-4f7f-a64c-e524c992b973.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210549/7/99ab6752-f610-433a-b10e-704a4dcfb0a6.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210549/8/d5b6d94f-2a3b-437f-bd2f-7df0c6301ccd.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210549/9/996a5099-d610-4790-bb2b-1d539d7f695e.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210549/12/6a3a32bd-2486-406a-a543-1434bf078494.txt>

## 2005

Bruylants, G. (2005). *Etude par calorimétrie à titrage isotherme (ITC) et spectroscopie de résonance magnétique nucléaire (RMN) des effets de protonation liés à l'interaction entre l'alpha-chymotrypsine et la proflavine / Gilles Bruylants* (Unpublished doctoral dissertation). Université libre de Bruxelles, Faculté des sciences appliquées – Chimie, Bruxelles.

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210977/1/49b9e583-0cef-4d21-9c8d-d7f2a0f92534.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210977/4/cb0ea356-f2a3-4606-9486-84b53be0a2dc.txt>

## Member of Ph.D. jury

## 2020

Retout, M. (2020). *Design of a no-wash colorimetric biosensor for the detection of the cancer biomarker Mdm2 with plasmonic nanoparticles* (Unpublished doctoral dissertation). Université libre de Bruxelles, Ecole polytechnique de Bruxelles – Chimie et Science des Matériaux, Bruxelles.

📄 <https://dipot.ulb.ac.be/dspace/bitstream/2013/314265/4/Table-of-content.pdf>

📄 [https://dipot.ulb.ac.be/dspace/bitstream/2013/314265/3/Maurice\\_retout\\_Final-thesis.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/314265/3/Maurice_retout_Final-thesis.pdf)

📄 <https://dipot.ulb.ac.be/dspace/bitstream/2013/314265/5/contratMR.pdf>

## 2018

Bolis, S. (2018). *Spatial optical solitons and optical gain in liquid crystal devices* (Unpublished doctoral dissertation). Ghent University, Faculty of Engineering and Architecture, Department of Electronics and Information Systems (ELIS) - Doctor of Photonics Engineering, Ecole polytechnique de Bruxelles – Physicien, Bruxelles.

📄 [https://dipot.ulb.ac.be/dspace/bitstream/2013/268937/3/Bolis\\_PhD\\_thesis.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/268937/3/Bolis_PhD_thesis.pdf)

📄 [https://dipot.ulb.ac.be/dspace/bitstream/2013/268937/4/Table\\_of\\_contents.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/268937/4/Table_of_contents.pdf)

📄 <https://dipot.ulb.ac.be/dspace/bitstream/2013/268937/5/contratSB.pdf>

## 2016

Inthasot, A. (2016). *Nouveaux récepteurs cavitaires dérivés de calix[6]arènes : fonctionnalisation sélective, chimie de coordination et reconnaissance moléculaire dans l'eau* (Unpublished doctoral dissertation). Université Paris Descartes, Faculté des Sciences – Chimie, Bruxelles.

ULB <https://dipot.ulb.ac.be/dspace/bitstream/2013/224570/3/InthasotAlexThese.pdf>

ULB <https://dipot.ulb.ac.be/dspace/bitstream/2013/224570/4/MatiereTableAlexInthasot.pdf>

📄 <https://dipot.ulb.ac.be/dspace/bitstream/2013/224570/5/contratInthasot.pdf>

## 2012

Picron, J.-F. (2012). *Synthèse et étude de récepteurs calix[6]aréniques porteurs de fluorophores* (Unpublished doctoral dissertation). Université libre de Bruxelles, Faculté des Sciences – Chimie, Bruxelles.

📄 <https://dipot.ulb.ac.be/dspace/bitstream/2013/209625/1/13546102-8d36-4c01-a4bb-7e935b44a957.txt>

📄 <https://dipot.ulb.ac.be/dspace/bitstream/2013/209625/4/535d338b-c205-488e-bda0-c208d61e4f32.txt>

## 2010

Duhayon, C. (2010). *Copper solvent extraction by ultrasound-assisted emulsification* (Unpublished doctoral dissertation). Université libre de Bruxelles, Faculté des sciences appliquées – Matériaux, Bruxelles.

📄 <https://dipot.ulb.ac.be/dspace/bitstream/2013/210155/1/0d4d8ccc-6da6-4399-aa03-216d8d7d66bb.txt>

📄 <https://dipot.ulb.ac.be/dspace/bitstream/2013/210155/2/28c99fde-b358-4ae0-8cb3-db83c0decd62.txt>

📄 <https://dipot.ulb.ac.be/dspace/bitstream/2013/210155/5/64ae57f1-bb9b-4642-96f8-fd349397e8fb.txt>

## 2006

Absil, J. (2006). *Contribution to the developments of rapid acquisition schemes in magnetic resonance imaging* (Unpublished doctoral dissertation). Université libre de Bruxelles, Faculté des Sciences – Physique, Bruxelles.

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210788/1/a17c9b77-f947-497e-bbda-bd8c93a48267.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210788/2/40190bbf-f5e6-4509-a013-214b7971ad07.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210788/3/6192fba5-b880-4455-a745-c39e552a08f7.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210788/6/c70cfbea-bef1-4a00-98e2-3797aa0c3f9b.txt>

Mievis, I. (2006). *Synthèse, caractérisation et photoréactivité d'oligomères hyperbranchés* (Unpublished doctoral dissertation). Université libre de Bruxelles, Faculté des sciences appliquées – Chimie, Bruxelles.

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210845/5/6bc3ffc9-ea46-44fa-9a40-8a278d1370a9.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210845/1/f4edf657-6df4-4a53-8a6f-369801e46ed5.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/210845/2/37f99c9f-4bcb-49c6-8e07-b4c2cd7dfea4.txt>

## 2002

Denolin, V. (2002). *Sources of contrast and acquisition methods in functional MRI of the human brain* (Unpublished doctoral dissertation). Université libre de Bruxelles, Faculté des sciences appliquées – Biosystèmes, Bruxelles.

<https://dipot.ulb.ac.be/dspace/bitstream/2013/211408/6/e6b08881-3261-4ed3-ab54-cd3b025b8d95.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/211408/1/ae8ae86-3309-4faf-b925-c7e1c0dcd20b.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/211408/2/acbfc864-c2d9-49c7-8cdb-36843a1d9782.txt>

<https://dipot.ulb.ac.be/dspace/bitstream/2013/211408/3/434f97da-f3b9-40cd-ae63-89f438263628.txt>

## Chair of Ph.D. jury

### 2016

Lavendomme, R. (2016). *Development of strategies for the highly selective functionalization of calixarenes and study of host–guest properties of calixarene-based molecular boxes* (Unpublished doctoral dissertation). Université libre de Bruxelles, Faculté des Sciences – Chimie, Bruxelles.

[https://dipot.ulb.ac.be/dspace/bitstream/2013/241320/3/Lavendomme\\_Roy\\_These\\_de\\_doctorat\\_Table\\_des\\_matières.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/241320/3/Lavendomme_Roy_These_de_doctorat_Table_des_matières.pdf)


[https://dipot.ulb.ac.be/dspace/bitstream/2013/241320/4/Lavendomme\\_Roy\\_These\\_de\\_doctorat.pdf](https://dipot.ulb.ac.be/dspace/bitstream/2013/241320/4/Lavendomme_Roy_These_de_doctorat.pdf)


<https://dipot.ulb.ac.be/dspace/bitstream/2013/241320/5/contratLavendomme.pdf>

### 2012

Galand, Q. (2012). *Experimental investigation of the diffusive properties of ternary liquid systems* (Unpublished doctoral dissertation). Université libre de Bruxelles, Ecole polytechnique de Bruxelles – Chimie et Science des Matériaux, Bruxelles.

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/209626/5/f182c9b7-24fb-4d08-87cc-260c56b7ce77.txt>

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/209626/1/0c462d3a-e8b9-47af-b00c-6cd6a16be169.txt>

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/209626/2/30e92d34-a954-4a54-a920-757c5feda6fb.txt>

## 2010

Glushchuk, A. (2010). *Film condensation on curvilinear fin: preparation of SAFIR and EMERALD experiments aboard International Space Station* (Unpublished doctoral dissertation). Université libre de Bruxelles, Faculté des sciences appliquées – Chimie, Bruxelles.

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/210060/4/d0e39b4e-7a3e-4e3d-ac13-2af262397c3c.txt>

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/210060/1/dc901c1b-2b88-4f41-9fca-67026dd64ec3.txt>

## Co-Direction of Ph.D.

## 2016

Doyen, M. (2016). *Synthèse et fonctionnalisation des nanoparticules d'or et caractérisation de leurs interactions avec des molécules biologiques* (Unpublished doctoral dissertation). Université libre de Bruxelles, Ecole polytechnique de Bruxelles – Chimie et Science des Matériaux, Bruxelles.

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/224698/3/Tdb-Doyen.pdf>

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/224698/4/These-Doyen.pdf>

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/224698/5/contratdifusion.pdf>