

## PUBLICATIONS

Dr Iwona Nierengarten

---

- 33) *Dinuclear Copper(I) Complexes Combining Bis(diphenylphosphanyl)acetylene with 1,10-Phenanthroline Ligands.*  
J.-F. Nierengarten, I. Nierengarten, M. Holler, A. Sournia-Saquet, B. Delavaux-Nicot, E. Leoni, F. Monti, N. Armaroli  
*Eur. J. Inorg. Chem.* **2019**, 2665-2673.
- 32) *Heteroleptic Copper(I) Complexes Prepared from Phenanthroline and Bis-Phosphine Ligands: Rationalization of the Photophysical and Electrochemical Properties.*  
E. Leoni, J. Mohanraj, M. Holler, M. Mohankumar, I. Nierengarten, F. Monti, A. Sournia-Saquet, B. Delavaux-Nicot, J.-F. Nierengarten, N. Armaroli  
*Inorg. Chem.* **2018**, 57, 15537-15549.
- 31) *A Fullerene-Substituted Pillar[5]arene for the Construction of a Photoactive Rotaxane.*  
E. Meichsner, I. Nierengarten, M. Holler, M. Chessé, J.-F. Nierengarten  
*Helv. Chim. Acta* **2018**, 101, e1800059.
- 30) *A Rotaxane Scaffold Bearing Multiple Redox Centers: Synthesis, Surface Modification and Electrochemical Properties.*  
M. Steffenhagen, A. Latus, T. M. N. Trinh, I. Nierengarten, I. T. Lucas, S. Joiret, J. Landoulsi, B. Delavaux-Nicot, J.-F. Nierengarten, E. Maisonhaute  
*Chem. Eur. J.* **2018**, 24, 1701-1708.
- 29) *Preparation of Pillar[5]arene-Based Rotaxanes by a Stopper-Exchange Strategy.*  
I. Nierengarten, E. Meichsner, M. Holler, P. Pieper, R. Deschenaux, B. Delavaux-Nicot, J.-F. Nierengarten  
*Chem. Eur. J.* **2018**, 24, 169-177.
- 28) *A Rotaxane Scaffold for the Construction of Multiporphyrinic Light-Harvesting Devices.*  
B. Delavaux-Nicot, H. Ben Aziza, I. Nierengarten, T. M. N. Trinh, E. Meichsner, M. Chessé, M. Holler, R. Abidi, E. Maisonhaute, J.-F. Nierengarten  
*Chem. Eur. J.* **2018**, 24, 133-140.

- 27) *Supramolecular Organogels Prepared from Pillar[5]arene-Functionalized Conjugated Polymers.*  
V. Kardelis, K. Li, I. Nierengarten, M. Holler, J.-F. Nierengarten, A. Adronov  
*Macromolecules* **2017**, *50*, 9144-9150.
- 26) *Coordination-Driven Folding in Multi-Zn<sup>II</sup>-Porphyrin Arrays Constructed on a Pillar[5]arene Scaffold.*  
T. M. N. Trinh, I. Nierengarten, H. Ben Aziza, E. Meichsner, M. Holler, M. Chessé, R. Abidi, Ch. Bijani, Y. Coppel, E. Maisonhaute, B. Delavaux-Nicot, J.-F. Nierengarten  
*Chem. Eur. J.* **2017**, *23*, 11011-11021.
- 25) *Piling up pillar[5]arene to Self-Assemble Nanotubes.*  
I. Nierengarten, S. Guerra, H. Ben Aziza, M. Holler, R. Abidi, J. Barbera, R. Deschenaux, J.-F. Nierengarten  
*Chem. Eur. J.* **2016**, *22*, 6185-6189.
- 24) *Conjugated Porphyrin Dimers: Cooperative Effects and Electronic Communication in Supramolecular Ensembles with C<sub>60</sub>.*  
L. Moreira, J. Calbo, J. Arago, B. M. Illescas, I. Nierengarten, B. Delavaux-Nicot, E. Orti, N. Martin, J.-F. Nierengarten  
*J. Am. Chem. Soc.* **2016**, *138*, 15359-15367.
- 23) *Pillar[5]arene-Based Glycoclusters: Synthesis and Multivalent Binding to Pathogenic Bacterial Lectins.*  
K. Buffet, I. Nierengarten, N. Galanos, E. Gillon, M. Holler, A. Imberty, S. E. Matthews, S. Vidal, S. P. Vincent, J.-F. Nierengarten  
*Chem. Eur. J.* **2016**, *22*, 2955-2963.
- 22) *Biologically Active Heteroglycoclusters Constructed on a Pillar[5]arene-Containing [2]Rotaxane Scaffold.*  
S. P. Vincent, K. Buffet, I. Nierengarten, A. Imberty, J.-F. Nierengarten  
*Chem. Eur. J.* **2016**, *22*, 88-92.
- 21) *From Pillar[n]arene Scaffolds for the Preparation of Nanomaterials to Pillar[5]arene-Containing Rotaxanes.*  
I. Nierengarten, R. Deschenaux, J.-F. Nierengarten  
*Chimia* **2016**, *70*, N° 1-2, 61-66.

- 20) *Synthesis of Giant Globular Multivalent Glycofullerenes as Potent Inhibitors in a Model of Ebola Virus Infection.*  
L. A. Muñoz, D. Sigwalt, B. M. Illescas, J. Luczkowiak, L. Rodríguez-Pérez, I. Nierengarten, M. Holler, J.-S. Remy, K. Buffet, S. P. Vincent, J. Rojo, R. Delgado, J.-F. Nierengarten, N. Martín  
*Nature Chemistry* **2016**, *8*, 50-57.
- 19) *Langmuir and Langmuir-Blodgett Films from Amphiphilic Pillar[5]arene-Containing [2]Rotaxanes.*  
T. M. N. Trinh, I. Nierengarten, M. Holler, J.-L. Gallani, J.-F. Nierengarten  
*Chem. Eur. J.* **2015**, *21*, 8019-8022.
- 18) *Metal-Atom Impact on the Self-Assembly of Cup-and-Ball Metalloporphyrin-Fullerene Conjugates.*  
L. Moreira, J. Calbo, B. M. Illescas, J. Aragón, I. Nierengarten, B. Delavaux-Nicot, E. Ortí, N. Martín, J.-F. Nierengarten  
*Angew. Chem. Int. Ed.* **2015**, *54*, 1255-1260.
- 17) *Preparation of Pillar[5]arene-Based [2]Rotaxanes from Acyl Chlorides and Amines.*  
R. Milev, A. Lopez-Pacheco, I. Nierengarten, T. M. Nguyet Trinh, M. Holler, R. Deschenaux, J.-F. Nierengarten  
*Eur. J. Org. Chem.* **2015**, 479-485.
- 16) *The Impact of the Copper-Catalyzed Alkyne-Azide 1,3-Dipolar Cycloaddition in Fullerene Chemistry.*  
I. Nierengarten, J.-F. Nierengarten  
*Chem. Rec.* **2015**, *15*, 31-51.
- 15) *Dinuclear Cu(I) Complexes Prepared from 2-Diphenylphosphino-6-methylpyridine.*  
J.-J. Cid, J. Mohanraj, M. Mohankumar, M. Holler, F. Monti, G. Accorsi, L. Karmazin-Brelot, I. Nierengarten, J.M. Malicka, M. Cocchi, B. Delavaux-Nicot, N. Armaroli, J.-F. Nierengarten  
*Polyhedron* **2014**, *82*, 158-172.
- 14) *Fullerene Sugar Balls: A New Class of Biologically Active Fullerene Derivatives.*  
I. Nierengarten, J.-F. Nierengarten  
*Chem.- An Asian J.* **2014**, *9*, 1436-1444.

- 13) *A Supramolecular Photosynthetic Model Made of a Multi-Porphyrinic Array Constructed Around a C<sub>60</sub> Core and a C<sub>60</sub>-Imidazole Derivative.*  
K. Yoosaf, J. Iehl, I. Nierengarten, M. Hmadeh, A.-M. Albrecht, J.-F. Nierengarten, N. Armaroli  
*Chem. Eur. J.* **2014**, *20*, 223-231.
- 12) *Polycationic Pillar[5]arene Derivatives: Interaction with DNA and Biological Applications.*  
I. Nierengarten, M. Nothisen, D. Sigwalt, T. Biellmann, M. Holler, J.-S. Remy, J.-F. Nierengarten  
*Chem. Eur. J.* **2013**, *19*, 17552-17558.
- 11) *A Mannosylated Pillar[5]arene Derivative: Chiral Information Transfer and Antiadhesive Properties Against Uropathogenic Bacteria.*  
I. Nierengarten, K. Buffet, M. Holler, S. P. Vincent, J.-F. Nierengarten  
*Tetrahedron Letters* **2013**, *54*, 2398-2402.
- 10) *Macrocyclic Effects in the Mesomorphic Properties of Liquid-Crystalline Pillar[5]- and Pillar[6]arenes.*  
I. Nierengarten, S. Guerra, M. Holler, L. Karmazin-Brelot, J. Barbera, R. Deschenaux, J.-F. Nierengarten  
*Eur. J. Org. Chem.* **2013**, *18*, 3675-3684.
- 9) *Heteroleptic Copper(I) Complexes Prepared from Phenanthroline and Bis-Phosphine Ligands.*  
A. Kaeser, M. Mohankumar, J. Mohanraj, F. Monti, M. Holler, J.-J. Cid, O. Moudam, I. Nierengarten, L. Karmazin-Brelot, C. Duhayon, B. Delavaux-Nicot, N. Armaroli, J.-F. Nierengarten  
*Inorg. Chem.* **2013**, *52*, 12140-12151.
- 8) *A Stable and Strongly Luminescent Dinuclear Cu(I) Helical Complex Prepared from 2-Diphenylphosphino-6-Methylpyridine.*  
J.-J. Cid, J. M. M. Mohankumar, M. Holler, G. Accorsi, L. Brelot, I. Nierengarten, O. Moudam, A. Kaeser, B. Delavaux-Nicot, N. Armaroli, J.-F. Nierengarten  
*Chem. Commun.* **2013**, *49*, 859-861.
- 7) *Building Liquid Crystals from the 5-Fold Symmetrical Pillar[5]arene Core.*  
I. Nierengarten, S. Guerra, M. Holler, J.-F. Nierengarten, R. Deschenaux  
*Chem. Commun.* **2012**, *48*, 8072-8074.

- 6) *Hydroxyquinoline Based Binders : Promising Ligands for Chelatotherapy?*  
 A. Budimir, N. Humbert, M. Elhabiri, I. Osinska, M. Birus, A-M. Albrecht-Gary  
*J. Inorg. Biochem.* **2011**, *105*, 490-496.
- 5) *CH...O hydrogen bond in the crystal structure of a pyrazine-based ligand and determination of the amplitude of the ligand conformational change induced by Cu(II) coordination.*  
 J. Ramirez, L. BreLOT, I. Osinska, A-M. Stadler  
*J. Molec. Struct.* **2009**, *931*, 20-24.
- 4) *Formyl-Porphyrin and Formyl-Fullerenoporphyrin Building Blocks for the Construction of Multiporphyrin Arrays.*  
 M. Urbani, J. Iehl, I. Osinska, R. Louis, M. Holler, J.-F. Nierengarten  
*Eur. J. Org. Chem.* **2009**, 3715-3725.
- 3) *A Stable Fullerene-Azide Building Block for the Construction of a Fullerene-Porphyrin Conjugate.*  
 J. Iehl, I. Osinska, R. Louis, M. Holler, J.-F. Nierengarten  
*Tetrahedron Lett.* **2009**, *50*, 2245-2248.
- 2) *Vanadium(III) Complexes with L-Cysteine - Stability, Speciation and the Effect on Actin in hepatoma Morris 5123 Ccells.*  
I. Osinska, H. Podsiadły, K. Bukietńska, M. Zemanek, D. Nowak, K. Suchoszek, M. Malicka  
*J. Inorg. Biochem.* **2004**, *98*, 2087-2098.
- 1) *Vanadium(III) Complexes with Aminoacids with N-, S-Donor Atoms.*  
 K. Bukietńska, H. Podsiadły, I. Osinska  
*Ann. Pol. Chem. Soc.* **2003**, *2*, 451-456.