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## Research outputs

### **A Simple and Efficient Mechanochemical Route for the Synthesis of Salophen Ligands and of the Corresponding Zn, Ni, and Pd Complexes**

Fusaro, L., Carletta, A., Dubois, J., Tumanov, N., Aprile, C., Wouters, J., Dalla Cort, A. & Leoni, L., 1 Jan 2019, In: *Molecules*. 24, 12, p. 2314 11 p., 2314.

### **Playing with Isomerism: Cocrystallization of Isomeric N-Salicylideneaminopyridines with Perfluorinated Compounds as Halogen Bond Donors and Its Impact on Photochromism**

Carletta, A., Zbačnik, M., Van Gysel, M., Vitković, M., Tumanov, N., Stilinović, V., Wouters, J. & Cinčić, D., 7 Nov 2018, In: *Crystal Growth and Design*. 18, 11, p. 6833–6842 10 p.

### **Direct Access by Mechanochemistry or Sonochemistry to Protonated Merocyanines: Components of a Four-State Molecular Switch**

Colaço, M., Carletta, A., Van Gysel, M., Robeyns, K., Tumanov, N. & Wouters, J., 2 Jul 2018, In: *ChemistryOPEN*. 7, 7, p. 520-526 7 p.

### **Tetraphenylborate Anion Induces Photochromism in N-Salicylideneamino-1-alkylpyridinium Derivatives Through Formation of Tetra-Aryl Boxes**

Carletta, A., Colaço, M., Mouchet, S., Plas, A., Tumanov, N., Fusaro, L., Champagne, B., Lanners, S. & Wouters, J., 30 Apr 2018, In: *Journal of Physical Chemistry C*. 122, 20, p. 10999–11007 9 p.

### **Halogen-bonded cocrystals of N -salicylidene Schiff bases and iodoperfluorinated benzenes: Hydroxyl oxygen as a halogen bond acceptor**

Carletta, A., Zbačnik, M., Vitković, M., Tumanov, N., Stilinović, V., Wouters, J. & Cinčić, D., 1 Jan 2018, In: *CrystEngComm*. 20, 36, p. 5332-5339 8 p.

### **Halogen-Bond Effects on the Thermo- and Photochromic Behaviour of Anil-Based Molecular Co-crystals**

Carletta, A., Spinelli, F., d'Agostino, S., Ventura, B., Chierotti, M. R., Gobetto, R., Wouters, J. & Grepioni, F., 3 Apr 2017, In: *Chemistry - A European Journal*. 23, 22, p. 5317-5329 13 p.

### **Assessing density functional theory approaches for predicting the structure and relative energy of salicylideneaniline molecular switches in the solid state**

Quertinmont, J., Carletta, A., Tumanov, N. A., Leyssens, T., Wouters, J. & Champagne, B., 21 Mar 2017, In: *The Journal of Physical Chemistry C*. 121, 12, p. 6898-6908 11 p.

### **Polymorphic and Isomorphic Cocrystals of a N-Salicylidene-3-aminopyridine with Dicarboxylic Acids: Tuning of Solid-State Photo- and Thermochromism**

Carletta, A., Buol, X., Leyssens, T., Champagne, B. & Wouters, J., 20 Apr 2016, In: *J. Phys. Chem. C*. 120, 18, p. 10001-10008 8 p.

### **How does binding of imidazole-based inhibitors to heme oxygenase-1 influence their conformation? Insights combining crystal structures and molecular modelling**

Carletta, A., Tilborg, A., Moineaux, L., De Ruyck, J., Basile, L., Salerno, L., Romeo, G., Wouters, J. & Guccione, S., 1 Aug 2015, In: *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*. 71, p. 447-454 8 p.

### **Structural and energy insights on solid-state complexes with trimethoprim: A combined theoretical and experimental investigation**

Tilborg, A., Carletta, A. & Wouters, J., 1 Aug 2015, In: *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*. 71, p. 406-415 10 p.

**Solid-state investigation on a new dimorphic substituted N-salicylidene compound: Insights into its thermochromic behaviour**

Carletta, A., Dubois, J., Tilborg, A. & Wouters, J., 14 May 2015, In: CrystEngComm. 17, 18, p. 3509-3518 10 p.

**Solid-state investigation of polymorphism and tautomerism of phenylthiazole-thione: A combined crystallographic, calorimetric, and theoretical survey**

Carletta, A., Meinguet, C., Wouters, J. & Tilborg, A., 6 May 2015, In: Crystal Growth and Design. 15, 5, p. 2461-2473 13 p.