

## **Alkyltitanium ate complexes generated from alkylmagnesium halides and titanium TADDOLate : NMR and computational study**

**Kananovich, Dzmitry**; Adamson, Jasper; **Osadchuk, Irina**; **Kudrjašova, Marina**; **Lopp, Margus** Balticum Organicum Syntheticum : 3-6 July 2016, Riga, Latvia : program and abstracts 2016 / p. 84 : ill [http://www.boschem.eu/public/BOS2016/BOS-2016\\_Anstract-Book\\_Final.pdf](http://www.boschem.eu/public/BOS2016/BOS-2016_Anstract-Book_Final.pdf)

## **Anharmonic vibrational spectrum and experimental matrix isolation study of thioformic acid conformers-potential candidates for molecular cloud and solar system observations?**

Lignell, A.; **Osadchuk, Irina**; Rasanen, M.; Lundell, J. The astrophysical journal 2021 / 7 p. : ill <https://doi.org/10.3847/1538-4357/ac06d0>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Benchmarking computational methods and influence of guest conformation on chirogenesis in zinc porphyrin complexes**

**Osadchuk, Irina**; **Borovkov, Victor**; **Aav, Riina**; Clot, Eric Physical chemistry chemical physics 2020 / p. 11025–11037  
<https://doi.org/10.1039/D0CP00965B> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Chirogenesis in Zinc porphyrins : theoretical evaluation of electronic transitions, controlling structural factors and axial ligation**

**Osadchuk, Irina**; **Aav, Riina**; **Borovkov, Victor**; Clot, Eric ChemPhysChem 2021 / p. 1817–1833 : ill  
<https://doi.org/10.1002/cphc.202100345> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Complexes of HXeY with HX (Y, X = F, Cl, Br, I): Symmetry-Adapted Perturbation Theory Study and Anharmonic Vibrational Analysis**

Dzieciol, Bartosz; **Osadchuk, Irina**; Cukras, Janusz; Lundell, Jan Molecules 2023 / art. 5148 <https://doi.org/10.3390/molecules28135148>

## **Host-guest complexes of 2-aminocyclohexyl thioureas and zinc porphyrins: chiroptic properties and binding mechanism**

**Konrad, Nele**; Meniailava, Darya; **Osadchuk, Irina**; **Aav, Riina**; **Borovkov, Victor**; **Kananovich, Dzmitry** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 44 <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

## **Importance of molecular symmetry for enantiomeric excess recognition by NMR**

Norvaiša, Karolis; O'Brien, John E.; **Osadchuk, Irina**; Twamley, Brendan; **Borovkov, Victor**; Senge, Mathias O. Chemical communications 2022 / p. 5423-5426 <https://doi.org/10.1039/D2CC01319C> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Induced circular dichroism in zinc porphyrin complexes**

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## **Iridium PCP pincer complexes in electrochemical CO<sub>2</sub> hydrogenation**

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## **Isomers and conformers of complexes of Ti(OiPr)<sub>4</sub> with cuclopentane-1,2-dione : NMR study and DFT calculations**

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## **Porphyrin-based (chir)optical sensing of amino-functionalized thiourea organocatalysts**

**Konrad, Nele**; Horetski, Matvey; Sihtmäe, Mariliis; **Osadchuk, Irina**; Truong, Khai-Nghi; **Borovkov, Victor**; **Aav, Riina**; **Kananovich, Dzmitry** Twelfth International Conference on Porphyrins and Phthalocyanines : ICPP-12 : book of abstracts 2022 / p. 393  
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## **Revisiting the vibrational spectrum of formic acid anhydride**

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**Supramolecular chirogenesis in a sterically hindered Porphyrin : a critical theoretical analysis**

**Osadchuk, Irina; Luts, Hanna-Elisa;** Norvaiša, Karolis; **Borovkov, Victor;** Senge, Mathias O. Chemistry : a European journal 2023 <https://doi.org/10.1002/chem.202301408>

**Supramolecular Chirogenesis in bis-porphyrin: crystallographic structure and CD spectra for a complex with a chiral guanidine derivative**

**Osadchuk, Irina; Konrad, Nele;** Truong, Khai-Nghi; Rissanen, Kari; Clot, Eric; **Aav, Riina; Kananovich, Dzmitry; Borovkov, Victor** Symmetry 2021 / 14 p. : ill <https://doi.org/10.3390/sym13020275> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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**Supramolecular chirogenesis in zinc porphyrins: complexation with enantiopure thiourea derivatives, binding studies and chirality transfer mechanism**

**Konrad, Nele;** Meniailava, Darya; **Osadchuk, Irina;** Adamson, Jasper; **Hasan, Mohammed;** Clot, Eric; **Aav, Riina; Borovkov, Victor; Kananovich, Dzmitry** Journal of porphyrins and phthalocyanines 2020 <https://doi.org/10.1142/S108842461950192X> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Theoretical investigation of a parallel catalytic cycle in CO<sub>2</sub> hydrogenation by (PNP)IrH<sub>3</sub>**

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**Thiourea organocatalysts as emerging chiral pollutants : en route to porphyrin-based (chir)optical sensing**

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