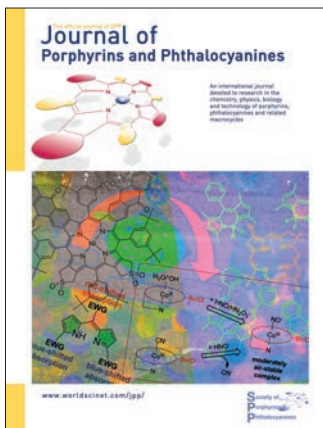


About the Cover



The cover shows a montage of the science presented in the current issue.

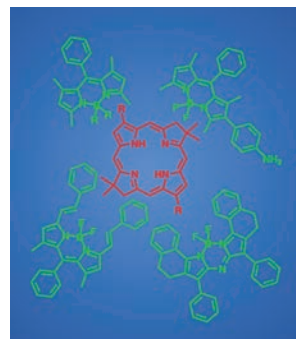
Review

pp. 201–216

Hydroporphyrin-BODIPY arrays

Marcin Ptaszek*, Adam Meares and Sara Ansteatt

Design, synthesis, photophysical properties and biomedical applications of arrays containing hydroporphyrins (either chlorin or bacteriochlorin) and BODIPY or aza-BODIPY are described.



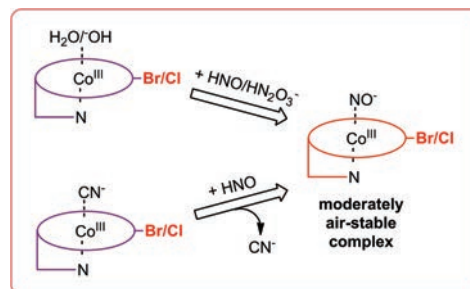
Articles

pp. 217–224

meso-Halogenated nitrosylcobalamins: Formation and aerobic stability

Iliia A. Dereven'kov*, Vladimir S. Osokin, Nikita A. Ershov and Sergei V. Makarov

Nitrosyl complexes of *meso*-halogenated (viz. brominated and chlorinated at the C10 position of corrin) cobalamins can be prepared *via* reactions of the corresponding halogenated aqua- and cyanocobalamins with nitroxyl or Angeli's salt. Produced nitrosyl complexes react with dioxygen substantially slower than unmodified nitrosylcobalamin.



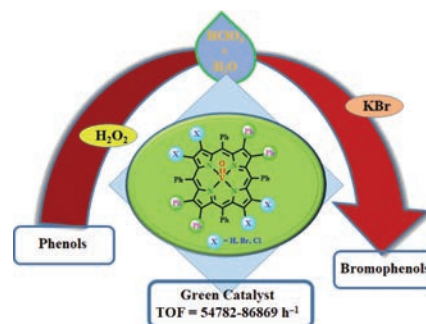
Articles

pp. 225–235

The synthesis of highly nonplanar oxidovanadium(IV) porphyrins as robust catalysts for oxidative bromination of phenols in an aqueous medium

Soni Kumari, Ved Prakash, Mannar R. Maurya and Muniappan Sankar*

Oxidovanadium(IV) 2,3,5,10,12,13,15,20-octaphenyl-7,8,17,18-tetrahaloporphyrin $V^{IV}O(OPP)X_4$ ($X = Cl$ or Br) was synthesized and utilized as a catalyst for the oxidative bromination of phenol derivatives with high TOF values.

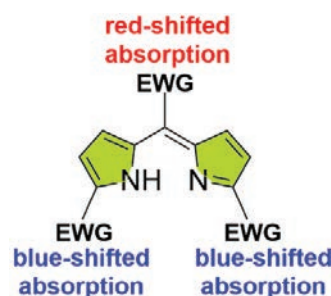


pp. 237–242

Influence of the meso-/1,9-substituents on the structure, redox and optical properties of triaryldipyrins

Jinrong Wu, Xiaojuan Lv, Tao Jiang, Tao Zhang, Fengxian Qiu and Songlin Xue*

Novel *meso*-/1,9-substituted triaryldipyrins were synthesized. The absorption and fluorescence properties of these compounds showed intramolecular charge transfer (ICT) absorptions. The optical and redox properties, as well as DFT calculations, supported the notion that the electron-withdrawing group at the 1,9-position of the triaryldipyrin have a stronger effect than the electron-withdrawing group at the *meso*-position.



pp. 243–251

Anthraquinone fused sulfolenoporphyrins: Regulation of reactivity and property through annulations

Qianghao Lin, Wenjing Ma, Yichen Yu, Yuqiu Tang, Wenyang Mo, Chengjie Li*, Qizhao Li, Yuxin Li and Xiujun Liu*

The sulfolenoporphyrin-based Diels-Alder reaction is an efficient way to synthesize π -extended porphyrins. In the current work we have synthesized mono-, bis- and tri-anthraquinone fused sulfolenoporphyrins (NixA) and demonstrate that anthraquinone fusions enhance reactivity in their further Diels-Alder reactions, induce ordered molecular stacking, strengthen the absorption at long wavelengths and weaken the aromaticity of the porphyrin core.

