SYNTHESIS AND PHOTOPHYSICAL PROPERTIES OF MONOAZATRIPHENYLENE DERIVATIVES AND ANALOGUES WITH EXTENDED CONJUGATION SYSTEM

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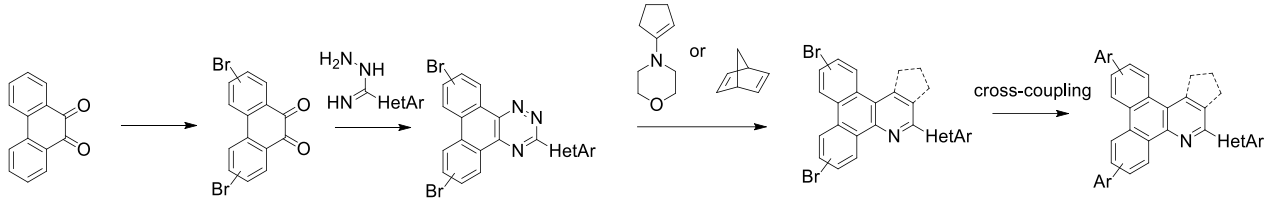
A series of monoazatriphenylene derivatives and analogues was obtained based on our recent approach[1]. Herein, an extended photophysical and DFT data were obtained and aspects of practical application are discussed.



Scheme 1. Synthesis of monoazatriphenylenes

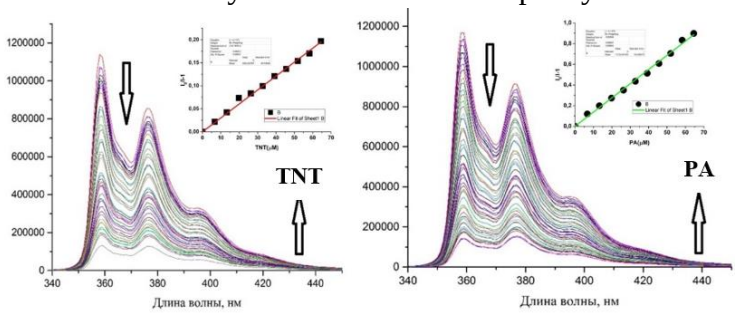


Fig. 1. Sensing activities toward nitroaromatic analytes

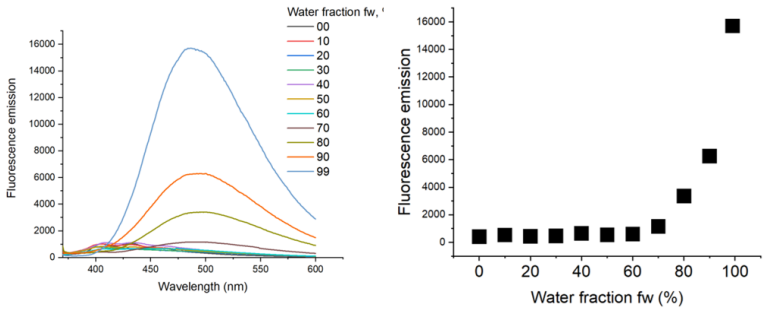


Fig. 2. AIE-activity

References

1. The Extension of Conjugated System in Pyridyl-Substituted Monoazatriphenylenes for the Tuning of Photophysical Properties / D.S. Kopchuk, A.F. Khasanov, I.S. Kovalev [et al.] // Chem Heterocycl Compd, – 2014. – Vol. 50, Iss. 6. – P. 871-879.

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