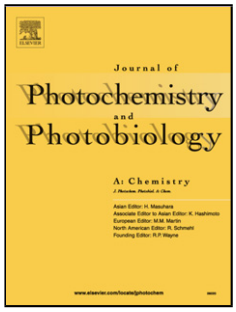
Accepted Manuscript



Title: Synthesis and properties of tetrahidrocarbazolyl- and 2-phenylindolyl-substituted benzophenone derivatives

Authors: Rasa Keruckiene, Jonas Keruckas, Eglė Jatautiene, Jurate Simokaitiene, Dmytro Volyniuk, Juozas Vidas Grazulevicius

PII: S1010-6030(18)30272-7
DOI: https://doi.org/10.1016/j.jphotochem.2018.04.010
Reference: JPC 11225

To appear in: *Journal of Photochemistry and Photobiology A: Chemistry*

Received date: 27-2-2018
Revised date: 4-4-2018
Accepted date: 4-4-2018

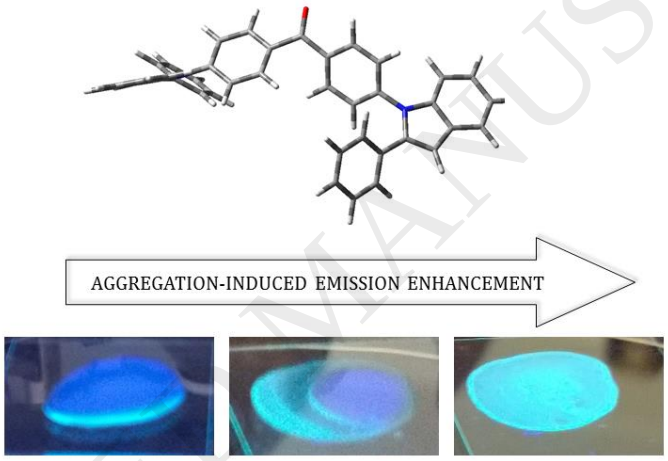
Please cite this article as: Rasa Keruckiene, Jonas Keruckas, Eglė Jatautiene, Jurate Simokaitiene, Dmytro Volyniuk, Juozas Vidas Grazulevicius, Synthesis and properties of tetrahidrocarbazolyl- and 2-phenylindolyl-substituted benzophenone derivatives, Journal of Photochemistry and Photobiology A: Chemistry https://doi.org/10.1016/j.jphotochem.2018.04.010

SYNTHESIS AND PROPERTIES OF TETRAHIDROCARBAZOLYL- AND 2-PHENYLINDOLYL-SUBSTITUTED BENZOPHENONE DERIVATIVES

Rasa Keruckiene, Jonas Keruckas, Eglė Jatautiene, Jurate Simokaitiene, Dmytro Volyniuk, Juozas Vidas Grazulevicius*

Department of Polymer Chemistry and Technology, Kaunas University of Technology, Radvilėnu av. 19, LT-50254 Kaunas, Lithuania

Graphical Abstract



Highlights

- Tetrahydrocarbazole- and 2-phenylindolylbenzophenone derivatives were synthesized
- Their triplet energy values exceeded 2.8 eV
- Solid-state ionization potential values were estimated to be 5.53 and 5.54 eV
- 2-Phenylindole based benzophenone derivative exhibited aggregation induced emission enhancement.

Abstract

* Corresponding author. E-mail address: juozas.grazulevicius@ktu.lt