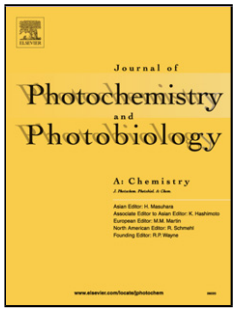
Accepted Manuscript



Title: Photophysical features of naphthols having esters, formyl and acetyl groups and the difluoroboronated complex in solution and the solid state

Authors: Minoru Yamaji, Hideki Okamoto

PII: S1010-6030(18)30323-X
DOI: https://doi.org/10.1016/j.jphotochem.2018.04.017
Reference: JPC 11232

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

Received date: 11-3-2018
Revised date: 7-4-2018
Accepted date: 8-4-2018

Please cite this article as: Minoru Yamaji, Hideki Okamoto, Photophysical features of naphthols having esters, formyl and acetyl groups and the difluoroboronated complex in solution and the solid state, Journal of Photochemistry and Photobiology A: Chemistry https://doi.org/10.1016/j.jphotochem.2018.04.017

Photophysical features of naphthols having esters, formyl and acetyl groups and the difluoroboronated complex in solution and the solid state

Minoru Yamaji[1,†,*] , Hideki Okamoto[2]

[1] Division of Molecular Science, Graduate School of Science and Engineering, Gunma University, Kiryu, Gunma 376-8515, Japan
[2] Division of Earth, Life, and Molecular Sciences, Graduate School of Natural Sciences and Technology, Okayama University, Okayama 700-8530, Japan

Highlights

- ・Emission features of ESIPT molecules and the related compounds were studied.
- ・One difluoroboronated complex was successfully prepared.
- ・Laser photolysis studies revealed the deactivation pathways from the S_1 state.
- ・The emission mechanism in the solid state was discussed.

† Present Address: Honcho 29-1, Ohta, Gunma 373-0057
*Corresponding author: yamaji@gunma-u.ac.jp

Graphical abstract