Supporting Information: Photochemical properties and stability of BODIPY dyes

Patryk Rybczyński,[†] Aleksander Smolarkiewicz-Wyczachowski,[†] Jarosław Piskorz,[‡] Szymon Bocian,[†] Marta Ziegler-Borowska,[†] Dariusz Kędziera,[†] and Anna Kaczmarek-Kędziera[*,†]

†*Faculty of Chemistry, Nicolaus Copernicus University in Torun, Gagarina 7, 87–100 Toruń, Poland*

‡*Department of Inorganic and Analytical Chemistry, Poznan University of Medical Sciences, Grunwaldzka 6, 60-780 Poznan, Poland*

E-mail: teoadk@chem.umk.pl

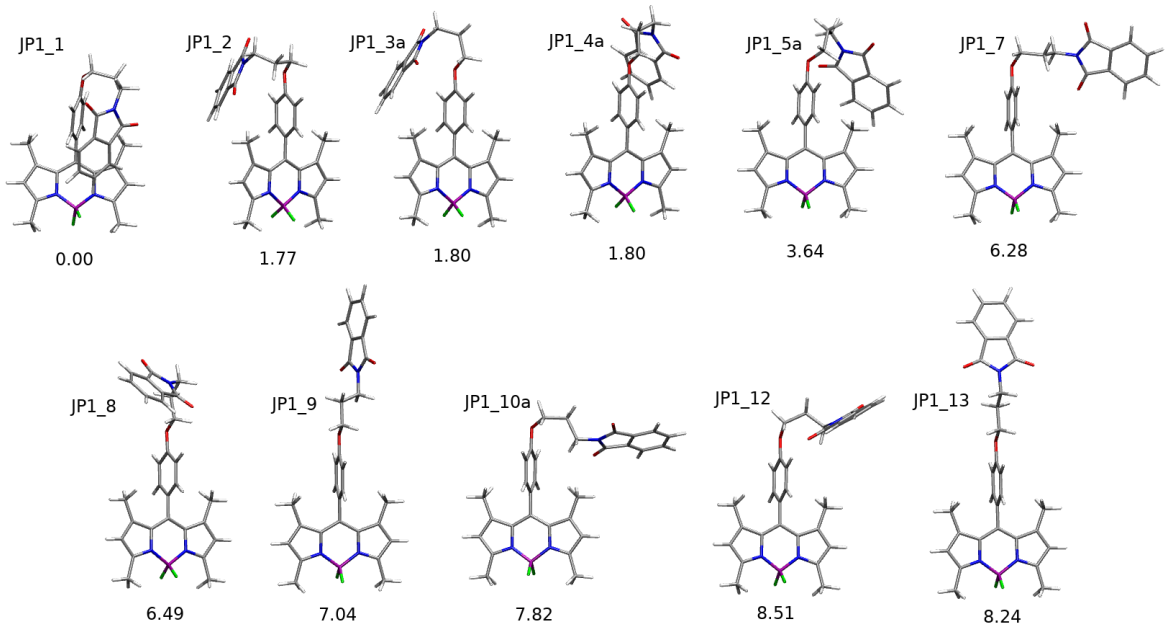

Figure S1: Optimized structures of the localized stable minimum conformations of **1** and their relative energy

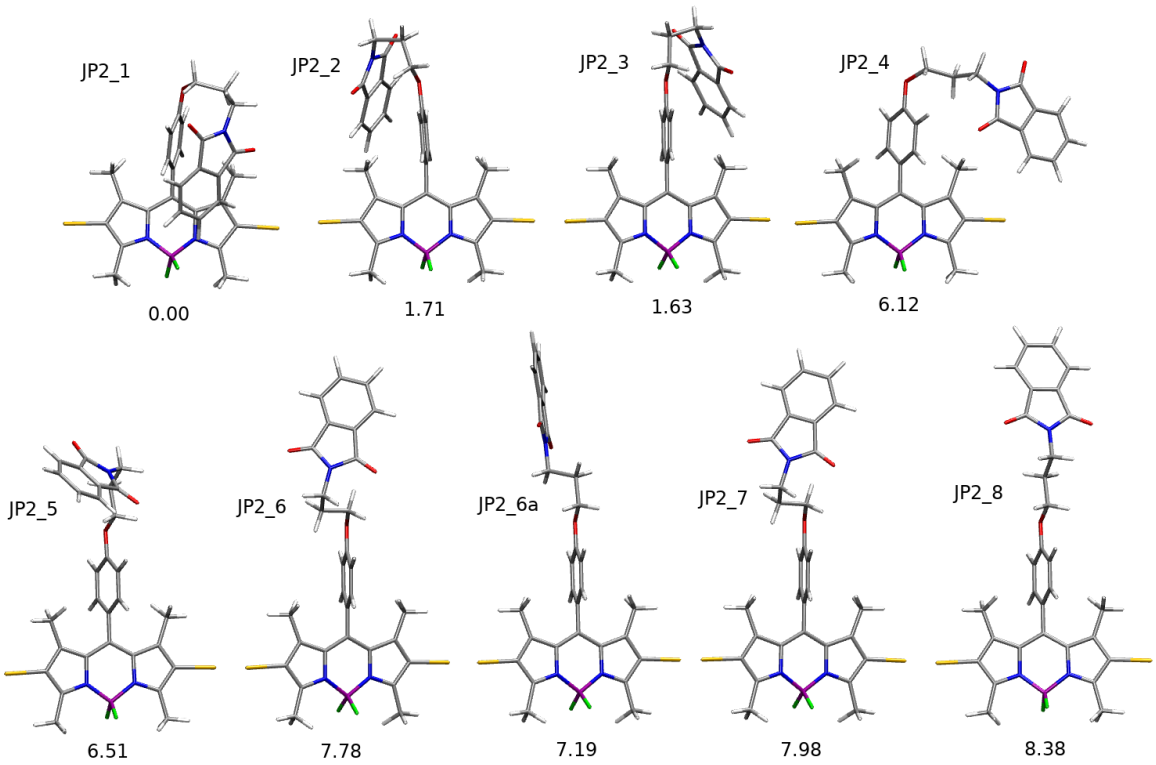

Figure S2: Optimized structures of the localized stable minimum conformations of **2** and their relative energy

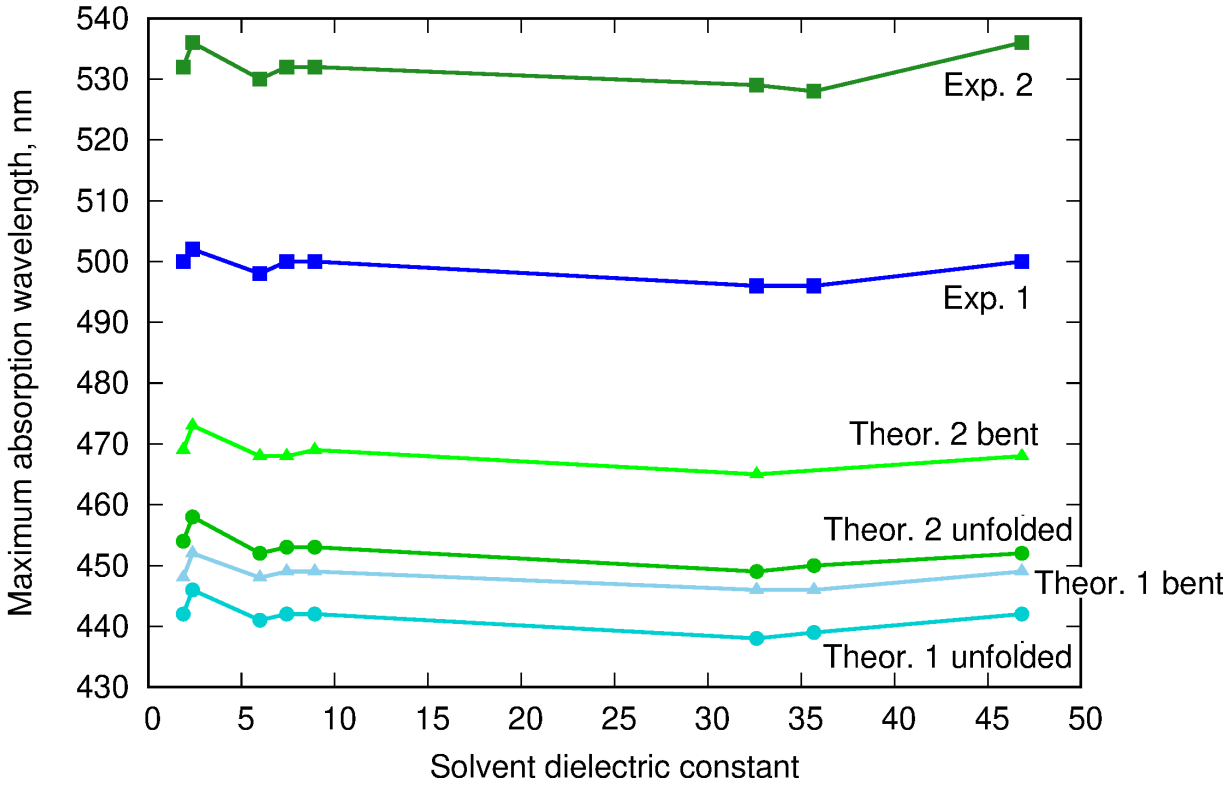

Figure S3: Experimentally measured maximum absorption wavelength [nm] versus solvent dielectric constant in comparison with the theoretical data for bent and unfolded conformers of **1** and **2** (M06-2X/def2-TZVP/PCM, vertical approach)

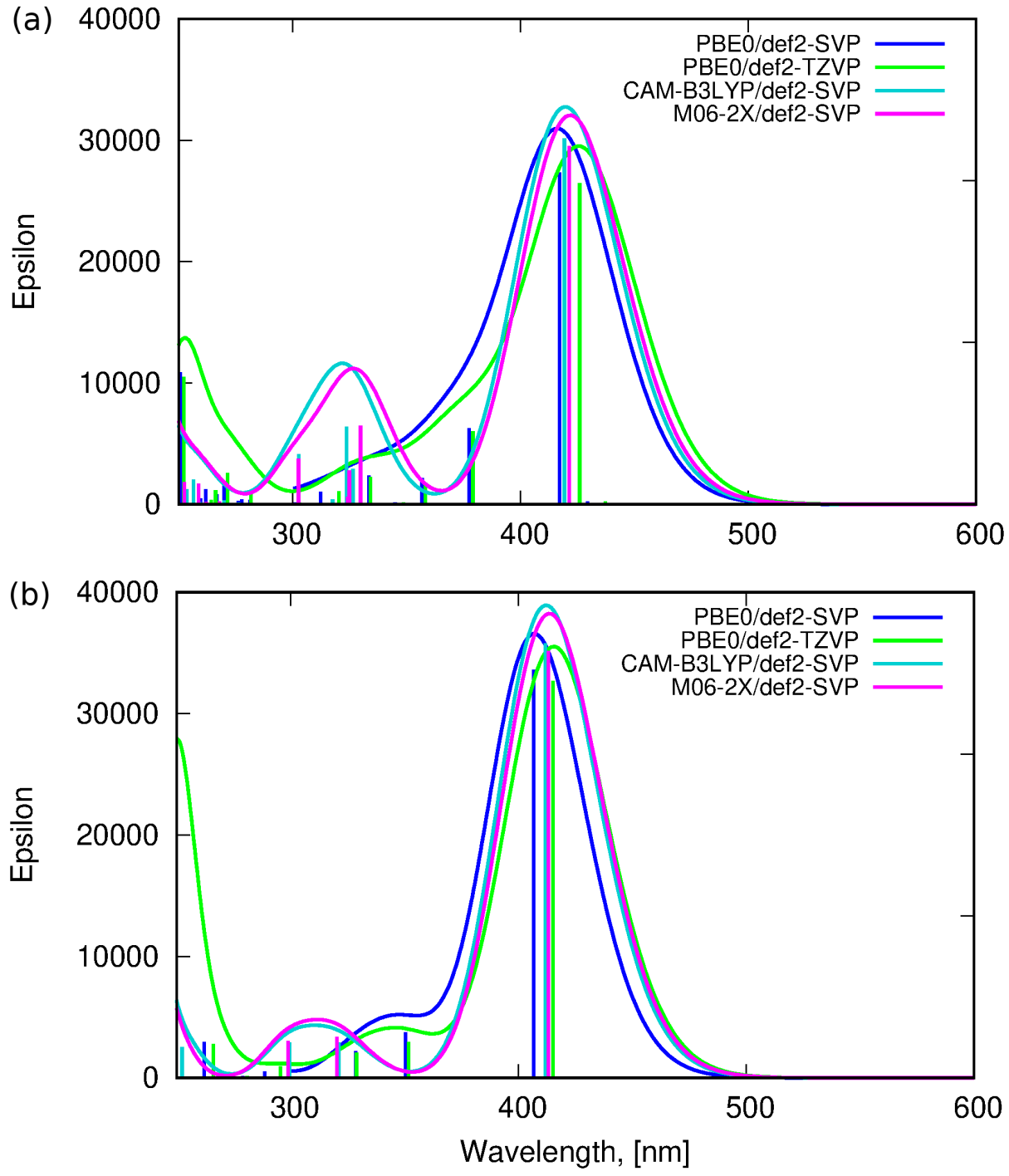

Figure S4: Estimation of the effect of functional and basis set choice for the quality of the vertical absorption spectrum in vacuum for **1** in (a) bent, (b) elongated conformation (one can notice the negligible influence of the functional and basis set for the most intensive absorption band)

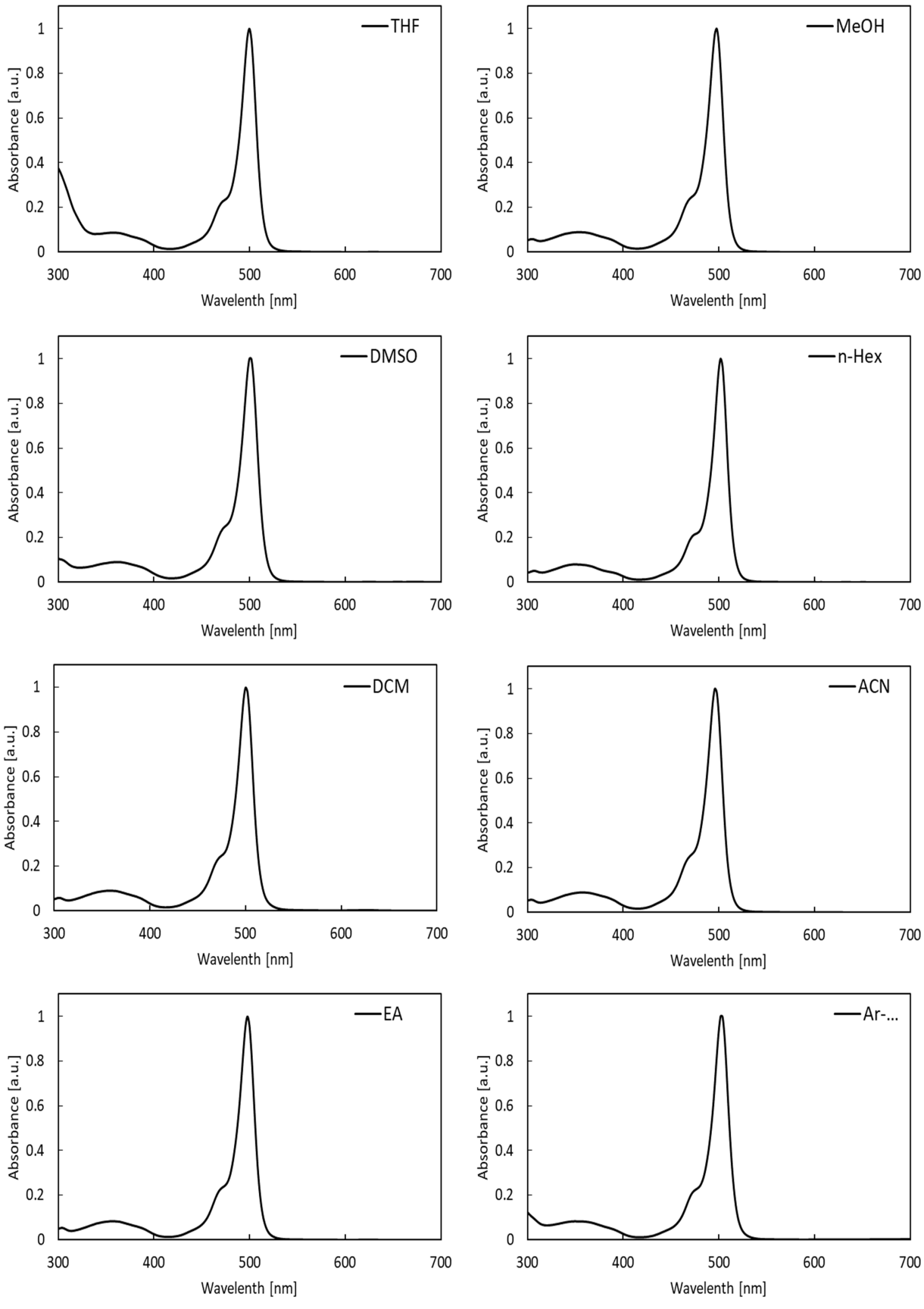

Figure S5: Absorption spectrum in different solvent for **1**

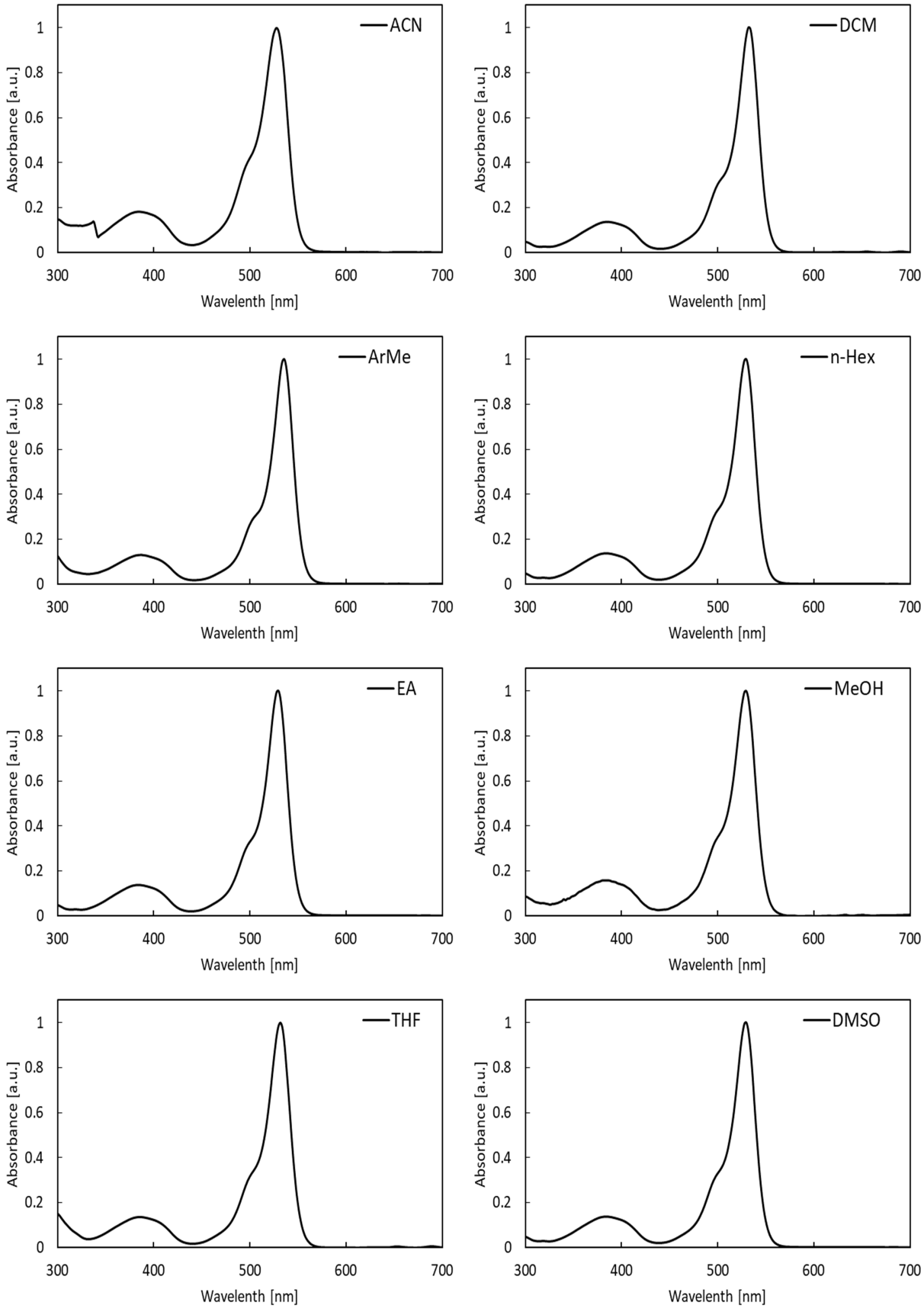

Figure S6: Absorption spectrum in different solvent for **2**

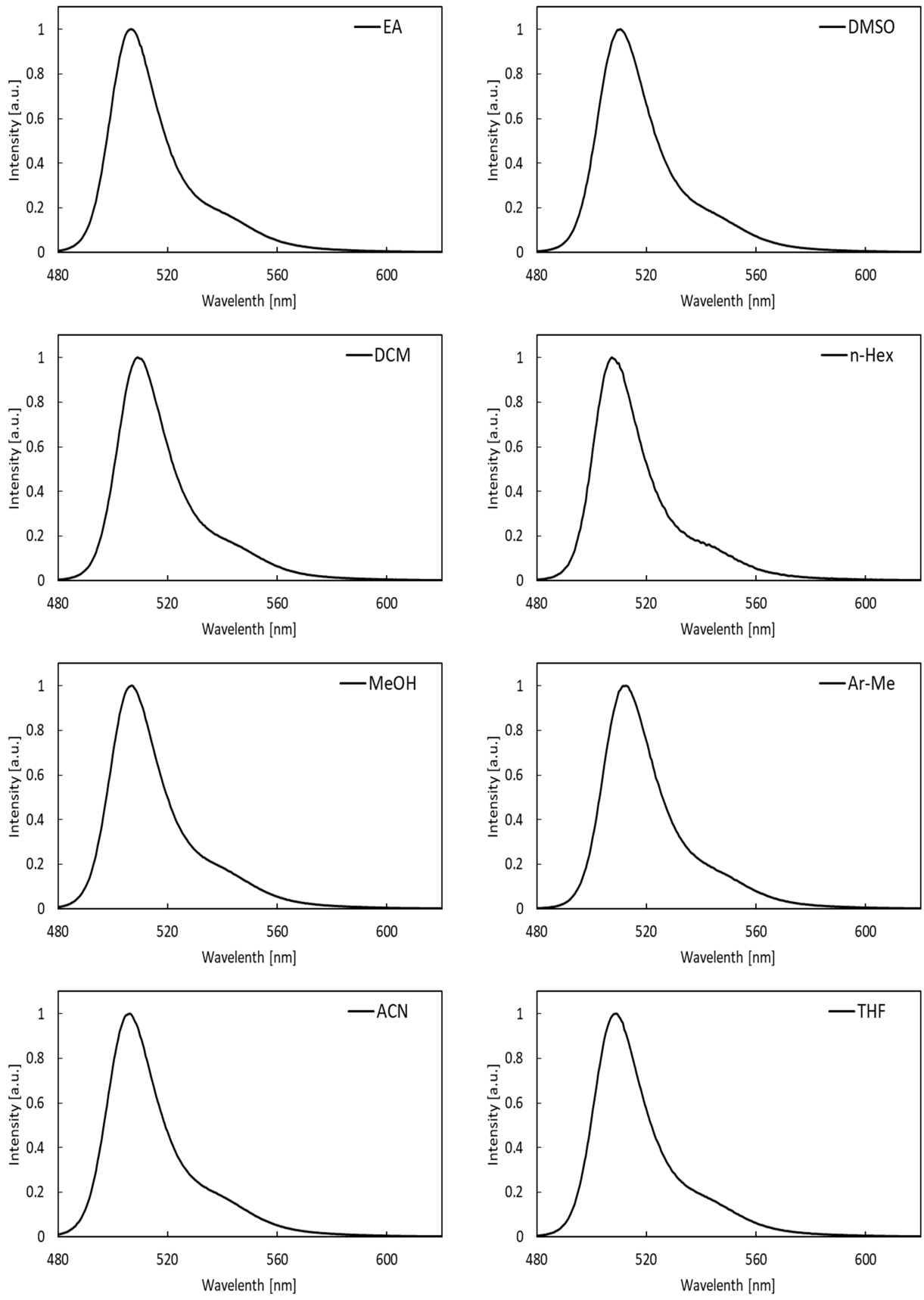

Figure S7: Fluorescence spectrum in different solvent for **1**

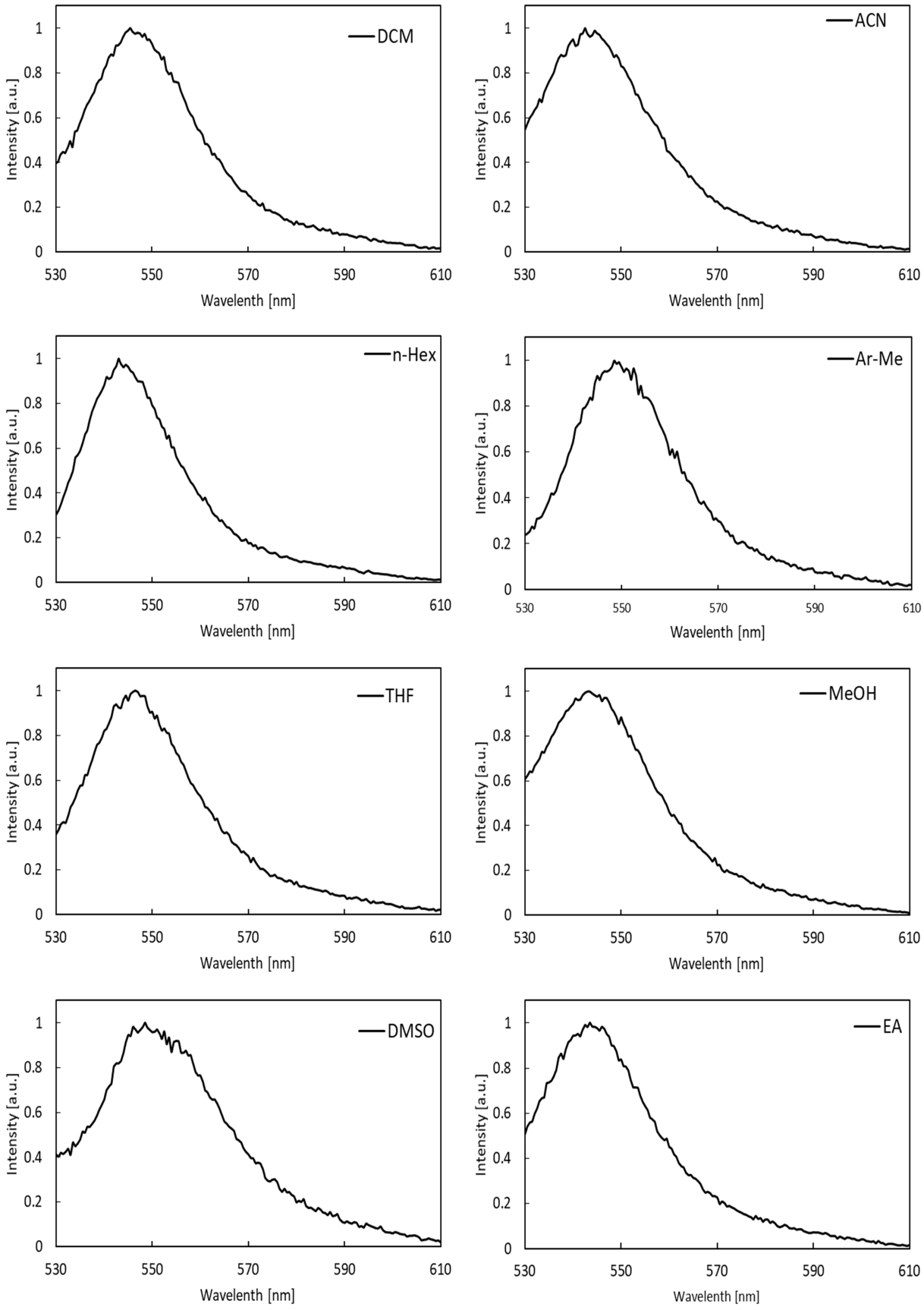

Figure S8: Fluorescence spectrum in different solvent for **2**