

# بسم الله الرحمن الرحيم

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تم رفع هذه الرسالة بواسطة / سلوي محمود عقل

بقسم التوثيق الإلكتروني بمركز الشبكات وتكنولوجيا المعلومات دون أدنى مسئولية عن محتوى هذه الرسالة.

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## Specific Versus Nonspecific Solvent Effects on the Intramolecular Charge Transfer in Aminonapthalene Derivatives

A Thesis

Submitted for the Degree of Master of Science

As Partial Fulfillment for Requirements of Master of Science

"Chemistry Department"

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**Granting Year: 2022** 

## **Acknowledgment**

In fact, I would like to thank God for enerything in my life and I hope I gainHis satisfaction in every step I take.

It is with genuine gratitude and warm regard that Idedicate this work to my Mom, Ashwaa El-Shaboury, May God bless her soul and I would like to thank you Mom for all your efforts and support to me. I know Ishould have thanked you many times before but Ididn't, knowing that you realized my gratitude.

And I also would like to dedicate my work to Dr. Ayman Ayoub Abdel-Shafi. Despite your work pressures, you gave me the time to help me out, I totally appreciate it. Thank you. Also I am honored to have Dr. Hisham Samir among my supervisors, and I thank him for trying to do his utmost to make this thesis a complete success. I want to thank you, Dr. Dina Salah, for all you have given me of knowledge. Dr. Ahmed El-Azaly, thank you so much for the time and effort you made to help me. I wish you a happy and successfullife.

Finally, my husband Ahmed Essam El-din, you did not only teach me what is good in life but also inspired me to dowell in life. You are a great partner and a good human being. Thank you for helping me having a successful life. AndMay God give us the blessing of our child.

Yara Hagrass

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Table 2 : Photophysical data of 2NA6S in different solvents.

# **List of Symbols**

Symbol	Scientific meaning
A	Absorbance
C	Concentration
Е	Energy
$\Phi_{ m f}$	Fluorescence quantum yield
$\Phi_{\mathrm{u}}$	Fluorescence quantum yieldof unknown
$\Phi_{\mathrm{S}}$	Fluorescence quantum yieldof Standard
n	Refractive index
F	fluorescence spectra
$I_{o}$	intensity at zero time (upon excitation)
I(t)	intensity at time t
τ	lifetime
t	Time
$ au_q$	Excited state fluorescence lifetime in presence of
$ au_0$	quencher Excited state fluorescence lifetime in absence of quencher
${ m I_f}$	Fluorescence intensity
$k_{\mathrm{f}}/k_{\mathrm{r}}$	Radiative rate constant