Supporting Information

Solution-processable BODIPY decorated triazine photodiodes and their comprehensive photophysical evaluation

Burcu Topaloğlu Aksoy 1, Gürkan Keşan2, Emrah Özcan1,2, Esra Tanrıverdi Eçik3, Ayşegül Dere4, Abdulkerim Karabulut4, Fahrettin Yakuphanoğlu4,5, Bünemın Çoşut1*

1 Department of Chemistry, Gebze Technical University, Gebze, Kocaeli, Turkey
2 Institute of Physics, Faculty of Science, University of South Bohemia, Branišovská 1760, 370 05, České Budějovice, Czech Republic
3 Department of Chemistry, Ataturk University, Erzurum, Turkey
4 Nanoscience and Nanotechnology Laboratory, Firat University, Elazig, Turkey
5 Department of Physics, Faculty of Science, Firat University, Elazig, Turkey

* Author for correspondence:

Dr. Bünemín Çoşut, Department of Chemistry, Gebze Technical University, Gebze 41400, Kocaeli, Turkey

Tel: 00 90 262 6053015
Fax: 00 90 262 6053105

Electronic Supplementary Material (ESI) (2020)
TABLE OF CONTENTS

Figure S1: MALDI MS Spectrum of Compound 1 ............................................................3
Figure S2: $^1$H NMR Spectrum of Compound 1 ..........................................................3
Figure S3: $^{13}$C NMR Spectrum of Compound 1 .........................................................4
Figure S4: MALDI MS Spectrum of Compound 2 ..........................................................4
Figure S5: $^1$H NMR Spectrum of Compound 2 ..........................................................5
Figure S6: $^{13}$C NMR Spectrum of Compound 2 ..........................................................5
Figure S7: $^{11}$B NMR Spectrum of Compound 2 ..........................................................6
Figure S8: $^{19}$F NMR Spectrum of Compound 2 ..........................................................6
Figure S9: MALDI MS Spectrum of Compound 3 ..........................................................7
Figure S10: $^1$H NMR Spectrum of Compound 3 ..........................................................7
Figure S11: $^{13}$C NMR Spectrum of Compound 3 ..........................................................8
Figure S12: MALDI MS Spectrum of Compound 4 ..........................................................8
Figure S13: $^1$H NMR Spectrum of Compound 4 ..........................................................9
Figure S14: $^{13}$C NMR Spectrum of Compound 4 ..........................................................9
Figure S15: $^{11}$B NMR Spectrum of Compound 4 ..........................................................10
Figure S16: $^{19}$F NMR Spectrum of Compound 4 ..........................................................10
Figure S17: TGA Thermogram of Compound 2 ............................................................11
Figure S18: TGA Thermogram of Compound 2 ............................................................11
Figure S19: DSC Thermogram of Compound 2 and 4 .....................................................12
Figure S20: Fluorescence Lifetime of Compound 1 .......................................................12
Figure S21: Fluorescence Lifetime of Compound 2 .......................................................13
Figure S22: Fluorescence Lifetime of Compound 3 .......................................................13
Figure S23: Fluorescence Lifetime of Compound 4 .......................................................14
Figure S24: Fluorescence Spectra of Compound 2 Solution and Solid Film ..................14
Figure S25: Fluorescence Spectra of Compound 4 Solution and Solid Film ..................15
Figure S1: Mass Spectrum of Compound 1

Figure S2: $^1$H NMR Spectrum of Compound 1
Figure S3: $^{13}$C NMR Spectrum of Compound 1

Figure S4: Mass Spectrum of Compound 2
Figure S5: $^1$H NMR Spectrum of Compound 2

Figure S6: $^{13}$C NMR Spectrum of Compound 2
Figure S7: $^{11}$B NMR Spectrum of Compound 2

Figure S8: $^{19}$F NMR Spectrum of Compound 2
Figure S9: Mass Spectrum of Compound 3

Figure S10: $^1$H NMR Spectrum of Compound 3
Figure S11: $^{13}$C NMR Spectrum of Compound 3

Figure S12: Mass Spectrum of Compound 4
Figure S13: $^1$H NMR Spectrum of Compound 4

Figure S14: $^{13}$C NMR Spectrum of Compound 4
Figure S15: $^{11}$B NMR Spectrum of Compound 4

Figure S16: $^{19}$F NMR Spectrum of Compound 4
Figure S17: TGA Thermogram of Compound 2

Figure S18: TGA Thermogram of Compound 4
Figure S19: DSC Thermogram of Compound 2 and 4

Figure S20: Fluorescence Lifetime of Compound 1
Figure S21: Fluorescence Lifetime of Compound 2

Figure S22: Fluorescence Lifetime of Compound 3
Figure S23: Fluorescence Lifetime of Compound 4

Figure S24: Fluorescence Spectra of Compound 2 Solution and Solid Film
Figure S25: Fluorescence Spectra of Compound 4 Solution and Solid Film