Synthesis, photophysical and electrochemical properties of 1, 2, 3-triazolyl bridged ferrocenyl dendrimers through click reaction

Perumal Rajakumar,* Ayyavoo Kannan and Ramasamy Anandhan

Department of Organic Chemistry, University of Madras, Guindy Campus, Chennai -600025, Tamil Nadu, India Tel.: +91 44 22202812; Fax: +91 44 22352492; E-mail: perumalrajakumar@gmail.com

SUPPORTING INFORMATIONS

1. Ferrocenyl dendrimer 3 and 4 Various scan rate plots - P-1-P-3
2. ¹H and ¹³C NMR spectra of compounds 1, 2, 3, 4, 6, 7, 10, 11, 12, 13, 15 and 16 - P-4-P-27
Figure S1: Ferrocenylidendrimer 3 for various scan rates (From inner to outer at 20 mV/s, 40 mV/s, 60 mV/s, 80 mV/s, 100 mV/s, 120 mV/s 140 mV/s, 160 mV/s, 180 mV/s, 200 mV/s, 220 mV/s, 240 mV/s, 260 mV/s 280 mV/s and 300 mV/s)

Figure S2: Ferrocenylidendrimer 3 Calibration plot of square root of scan rate ($\nu^{1/2}$) vs. anodic peak current (ipa)

\[ y = 3.486x + 0.2138 \]
\[ R^2 = 0.999 \]
**Figure S3:** Ferrocenyldendrimer 4 for various scan rates (From inner to outer at 20 mV/s, 40 mV/s, 60 mV/s, 80 mV/s, 100 mV/s, 120 mV/s 140 mV/s, 160 mV/s, 180 mV/s, 200 mV/s, 220 mV/s, 240 mV/s, 260 mV/s, 280 mV/s and 300 mV/s)

**Figure S4:** Ferrocenyldendrimer 4 Calibration plot of square root of scan rate ($\sqrt{\nu}$) vs. anodic peak current (ipa)
$^1$H (CDCl$_3$) NMR spectra of the compound 6
$^{13}$C (CDCl$_3$) NMR spectra of the compound 6
(CDCl₃) NMR spectra of the compound 7
$^{13}$C (CDCl₃) NMR spectra of the compound 7
\(^1\)H (DMSO-d6) NMR spectra of the compound 10
$^{13}$C (DMSO-d6) NMR spectra of the compound 10
$^1$H (DMSO-d6) NMR spectra of the compound 11
$^{13}$C (DMSO-d$_6$) NMR spectra of the compound 11
$^1$H (DMSO-d6) NMR spectra of the compound 12
$^{13}$C (DMSO-d6) NMR spectra of the compound 12
$^1$H (DMSO-d6) NMR spectra of the compound 13
$^{13}$C (DMSO-d6) NMR spectra of the compound 13
$^1$H (CDCl$_3$) NMR spectra of the compound 15
$^{13}$C (CDCl$_3$) NMR spectra of the compound 15
$^1$H (CDCl$_3$) NMR spectra of the compound 16
$^{13}$C (CDCl$_3$) NMR spectra of the compound 16
\(^1\)H (CDCl\(_3\)-d6) NMR spectra of the compound 1
$^{13}$C (CDCl$_3$-d6) NMR spectra of the compound $\mathbf{I}$
$^1$H (CDCl$_3$-d6) NMR spectra of the compound 2
$^{13}$C (CDCl$_3$-d6) NMR spectra of the compound 2
$^1$H (CDCl$_3$-d6) NMR spectra of the compound 3
$^{13}$C (CDCl$_3$-d6) NMR spectra of the compound 3
$^1$H (CDCl$_3$-d6) NMR spectra of the compound 4
$^{13}$C (CDCl$_3$-d6) NMR spectra of the compound 4