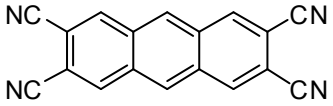
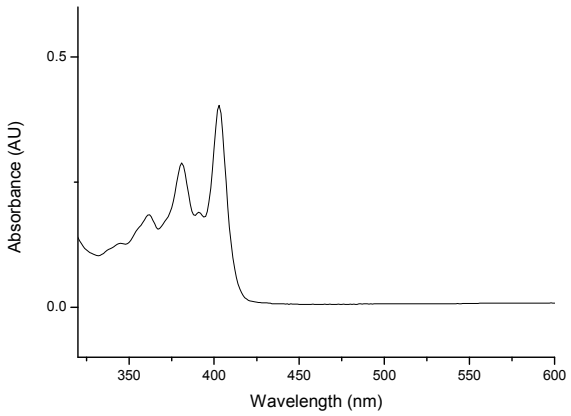
Cyclic voltammetry samples were prepared in dichloromethane solution with $TBAPF_6$ as the supporting electrolyte. The measurements were carried out on Bioanalytical Syste BAS1008 with a scan-rate of 100 mV/sec.

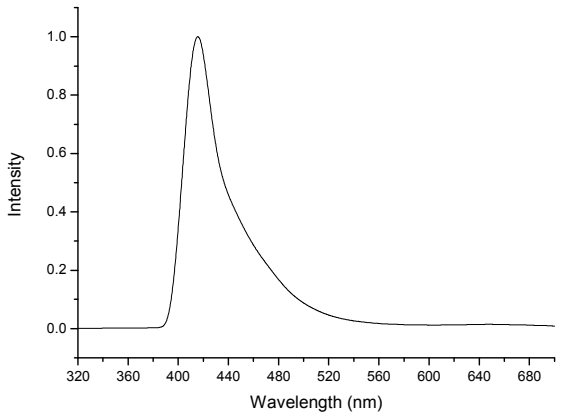




UV λ_{max} = 403 nm

ε = 4040

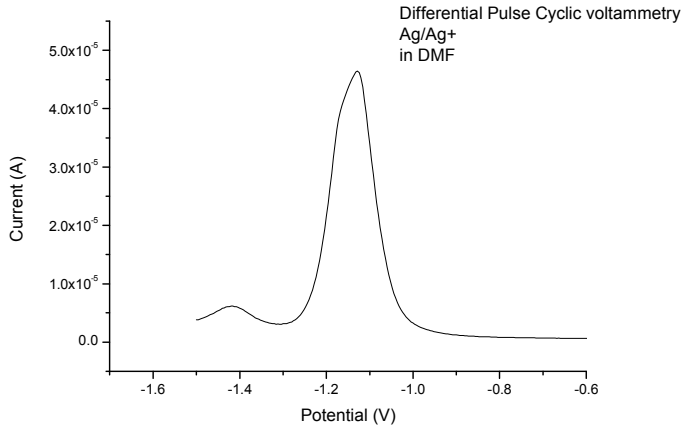
Δ E = 3.00 eV



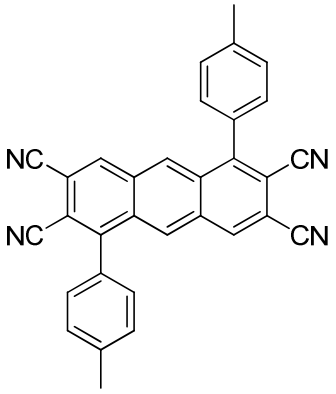
PL λ_{max} = 416 nm

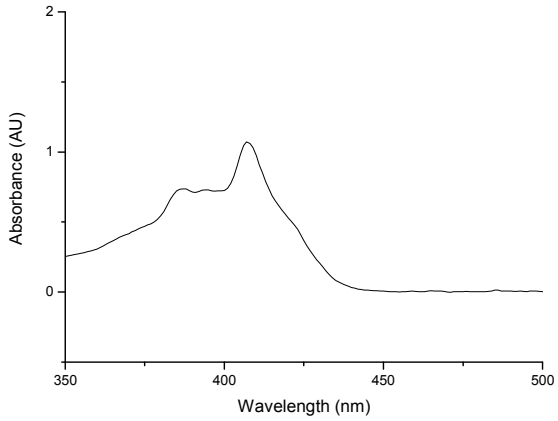
EX WL = 409 nm

Φ = 9%



Reduction Potential (V)	LUMO (eV)
Ep1 : -1.13	-3.57
Ep2 : -1.42	-3.28

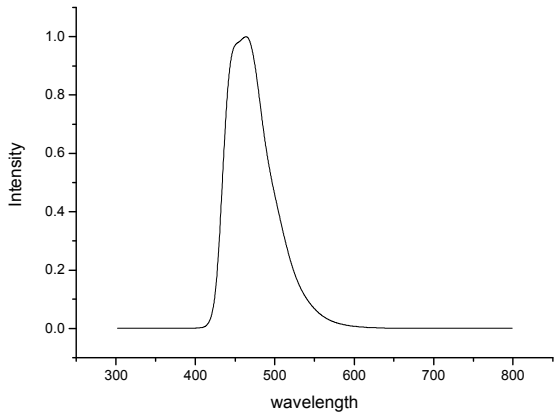




UV λ_{max} = 407 nm

ε = 10692

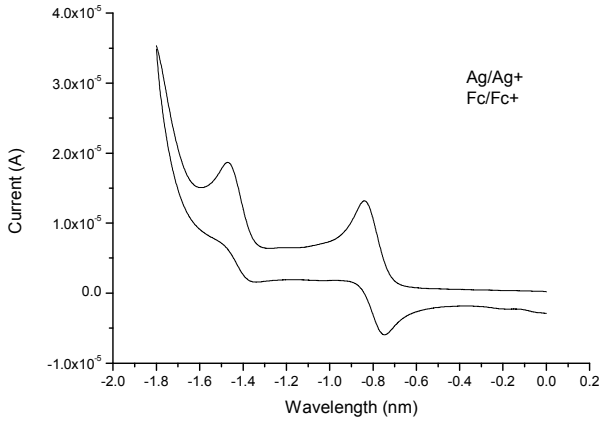
Δ E = 2.84 eV



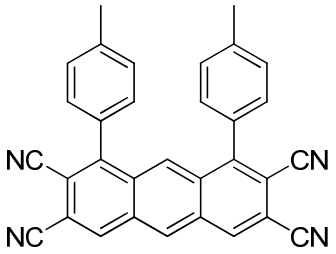
PL λ_{max} = 464 nm

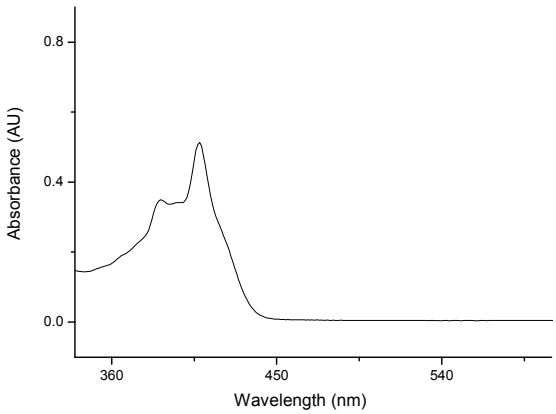
EX WL = 416 nm

Φ = 29%



Reduction Potential (V)		LUMO (eV)
Ep1 : -0.75	$Ep_{1/2}$: -0.80	-3.42
Ep2 : -0.84		
Ep3 : -1.35	$Ep_{1/2}$: -1.41	-2.81
Ep4: -1.47		

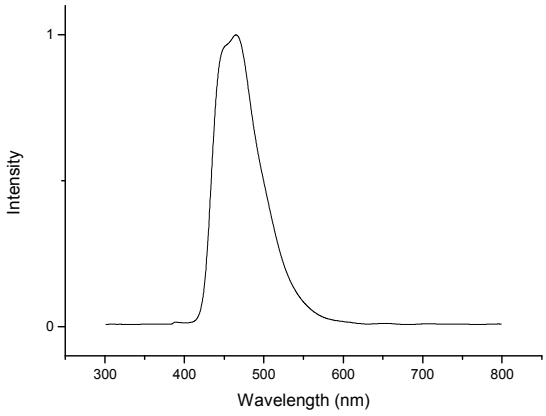




UV λ_{max} = 408 nm

ε = 5100

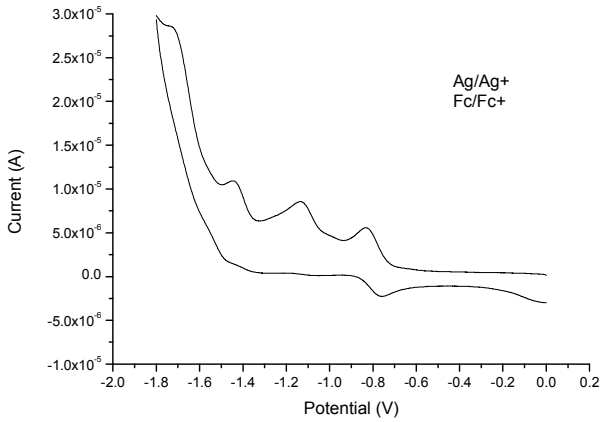
Δ E = 2.84 eV



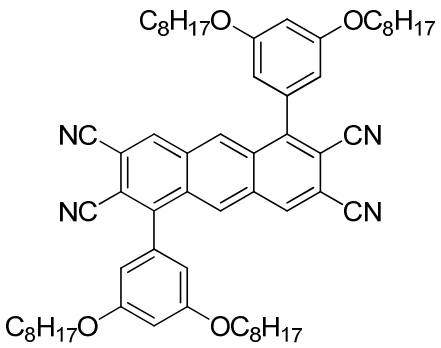
PL λ_{max} = 465 nm

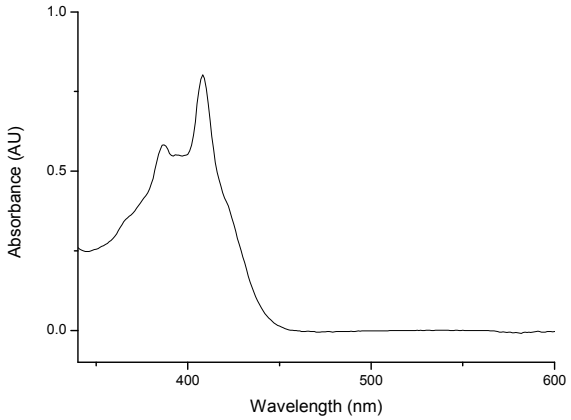
EX WL = 387 nm

Φ = 19%



Reduction Potential (V)		LUMO (eV)
Ep1 : -0.76	$Ep_{1/2}$: -0.80	-3.42
Ep2 : -0.83		
Ep3: -1.45		-2.77

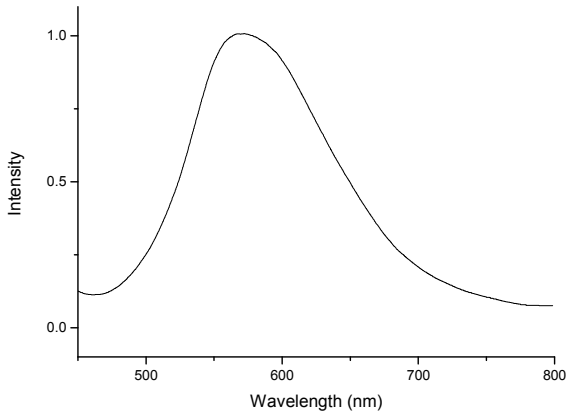




UV λ_{max} = 408 nm

ε = 8037

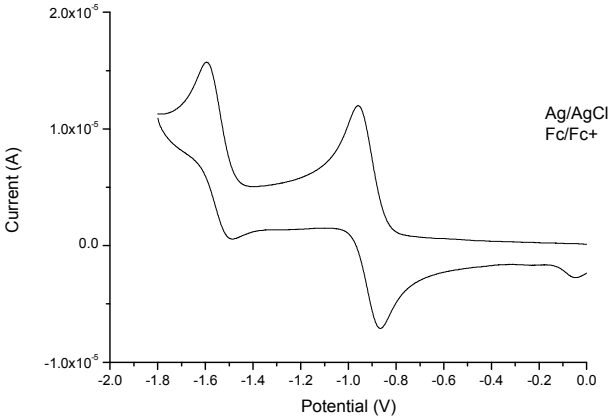
Δ E = 2.80 eV



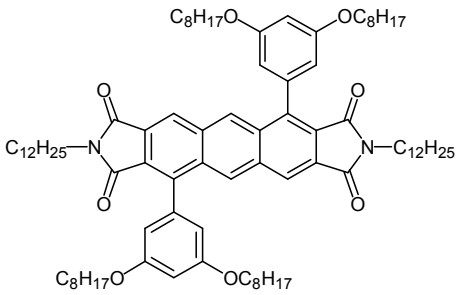
PL λ_{max} = 570 nm

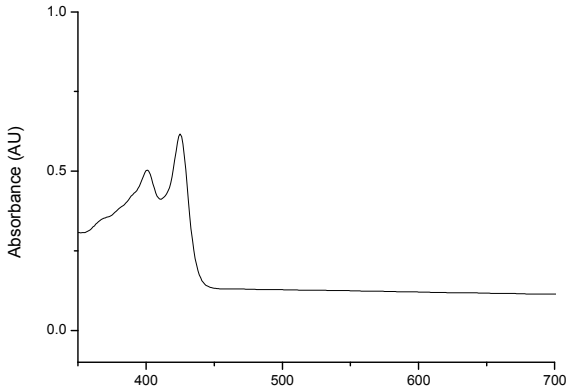
EX WL = 417 nm

Φ = 0.6%



Reduction Potential (V)		LUMO (eV)
Ep1 : -0.86	$Ep_{1/2}$: -0.91	-3.40
Ep2 : -0.96		
Ep3 : -1.50	$Ep_{1/2}$: -1.55	-2.76
Ep4: -1.60		

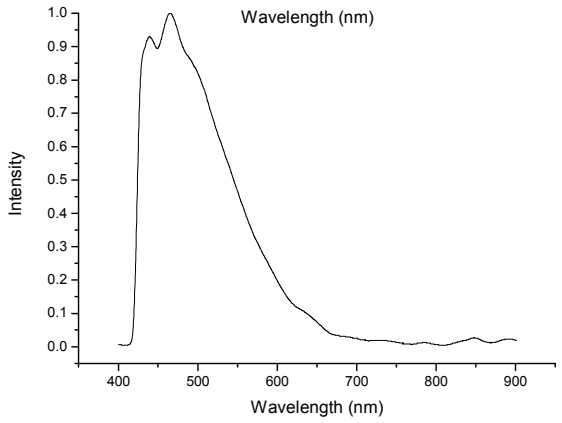




UV λ_{max} = 425 nm

ε= 6160

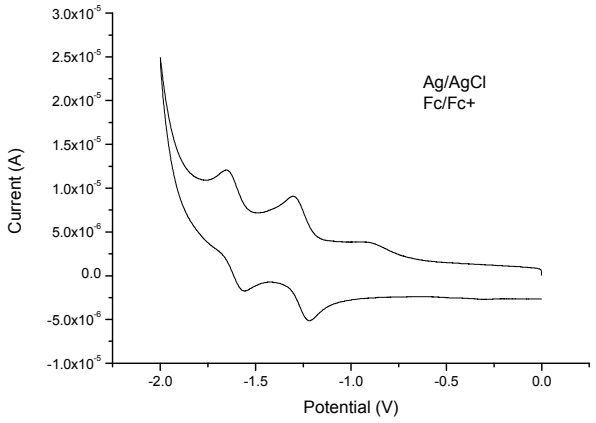
ΔE = 2.84 eV



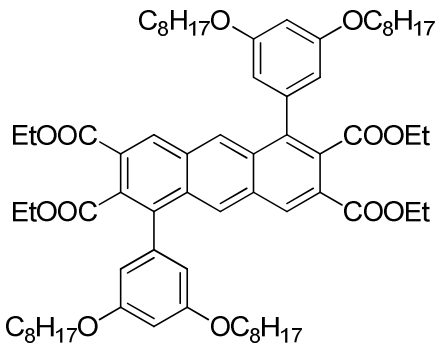
PLλ_{max} = 465 nm

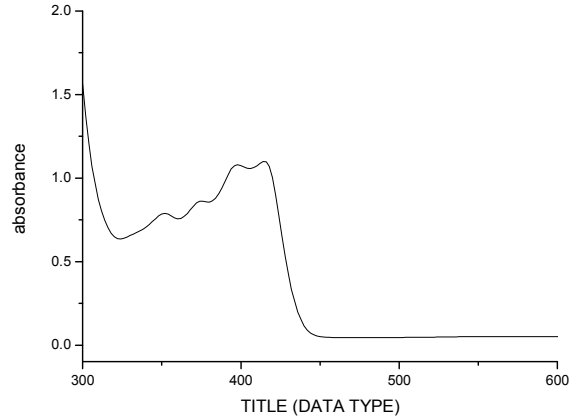
EX WL = 425 nm

Φ = 0.9%



Reduction Potential (V)		LUMO (eV)
Ep1 : -1.22	$Ep_{1/2}$: -1.26	-3.05
Ep2 : -1.30		
Ep3 : -1.56	$Ep_{1/2}$: -1.61	-2.70
Ep4: -1.65		

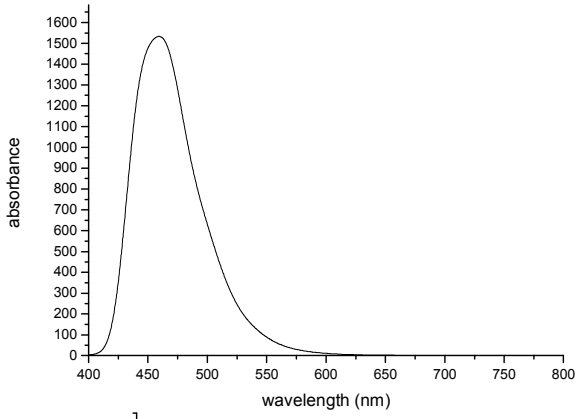




UV λ_{max} = 415 nm

ε= 4156

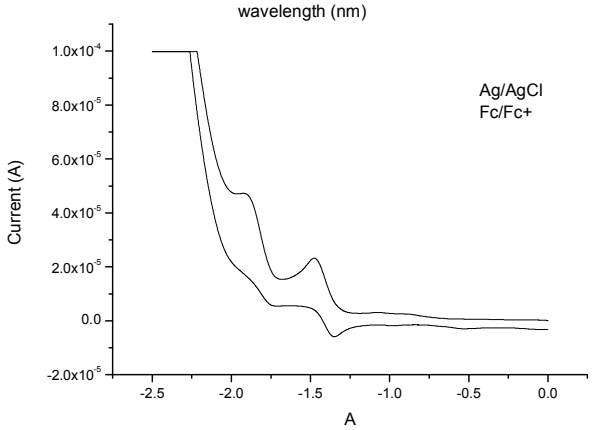
ΔE = 2.86 eV



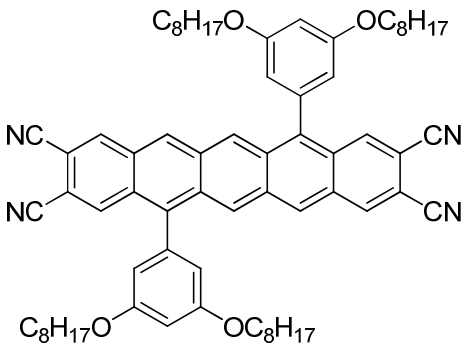
PLλ_{max} = 459 nm

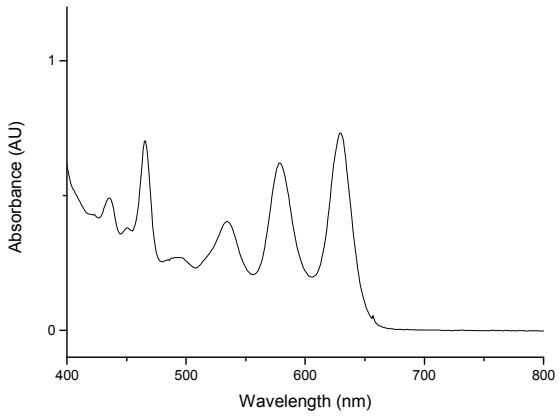
EX WL = 372 nm

Φ = 48%



Reduction Potential (V)		LUMO (eV)
Ep1 : -1.35	$Ep_{1/2}$: -1.41	-2.90
Ep2 : -1.47		
Ep3 : -1.74	$Ep_{1/2}$: -1.83	-2.48
Ep4 : -1.91		

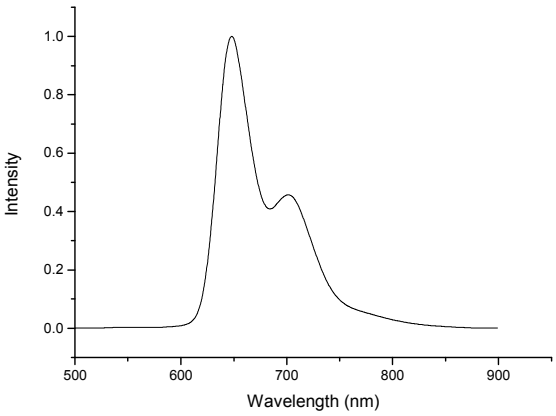




UV λ_{max} = 630 nm

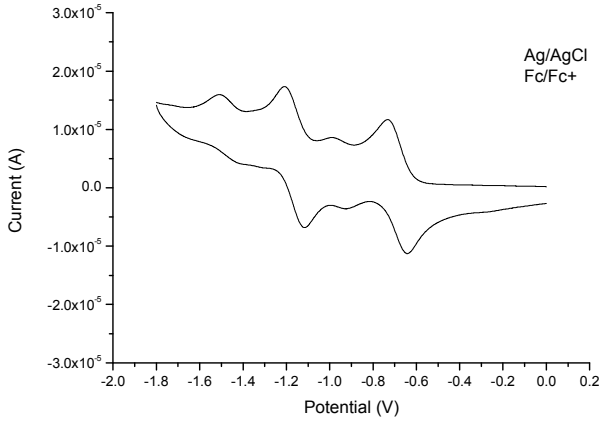
ε = 7320

Δ E = 1.91 eV

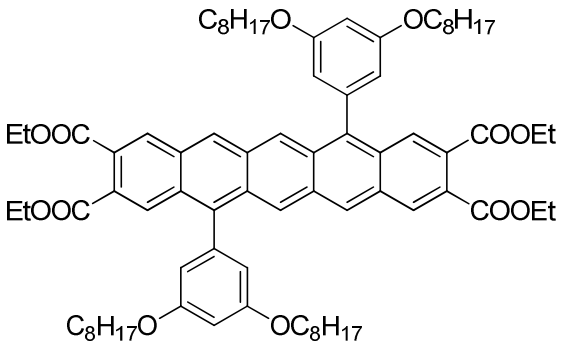


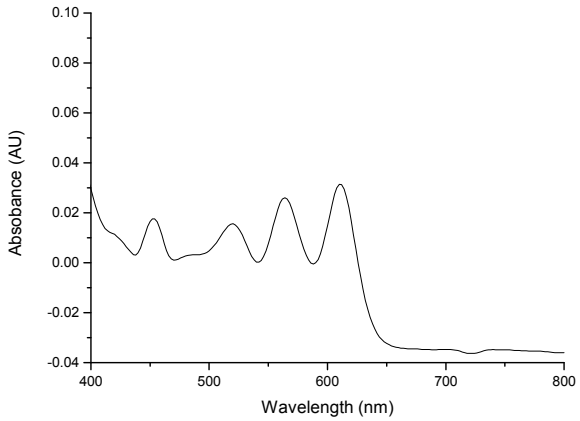
PL λ_{max} = 648 nm

EX WL = 630 nm



Reduction Potential (V)		LUMO (eV)
Ep1 : -0.64	$Ep_{1/2}$: -0.69	-3.62
Ep2 : -0.73		
Ep3 : -1.12	$Ep_{1/2}$: -1.17	-3.14
Ep4: -1.21		

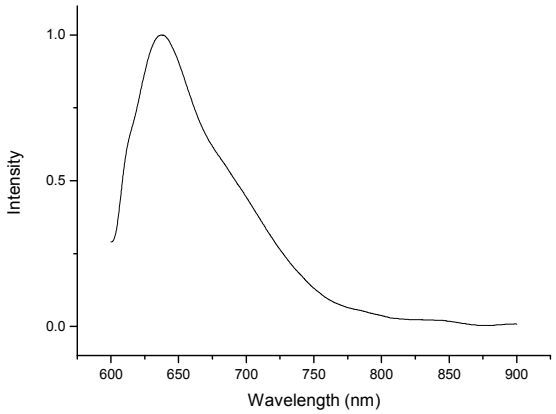




UV λ_{max} = 611 nm

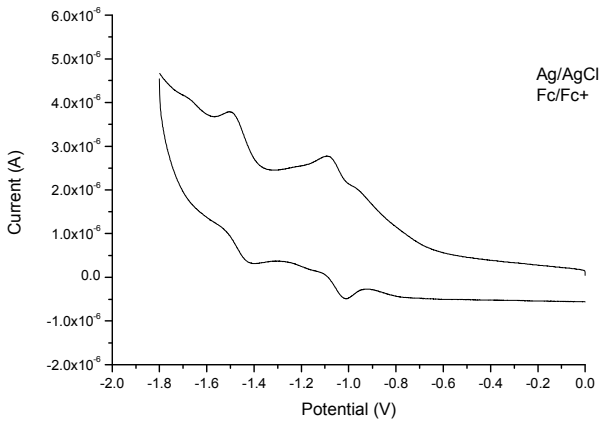
ε = 1933

$\triangle$ E = 1.93 eV

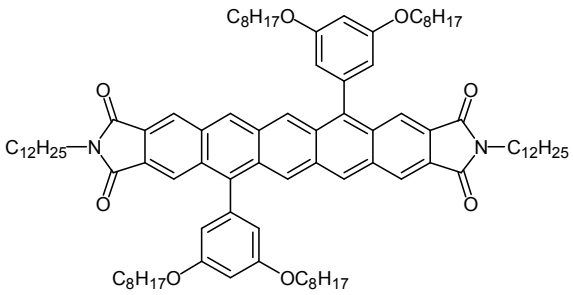


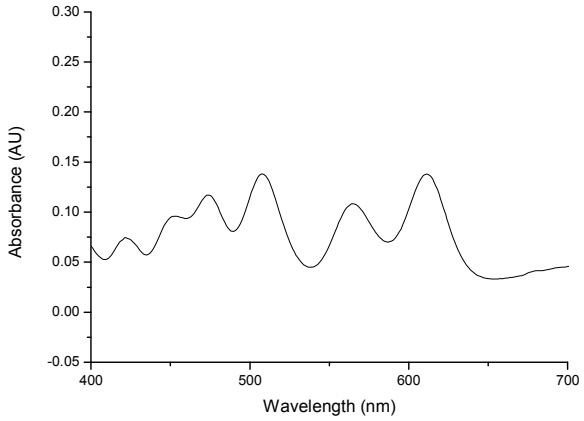
PL λ_{max} = 637 nm

EX WL = 611 nm



Reduction Potential (V)		LUMO (eV)
Ep1 : -1.01	$Ep_{1/2}$: -1.05	-3.28
Ep2 : -1.08		
Ep3 : -1.41	$Ep_{1/2}$: -1.46	-2.87
Ep4: -1.46		

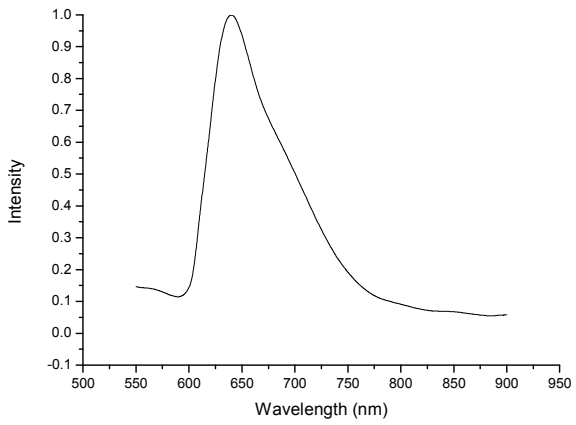




UV λ_{max} = 611 nm

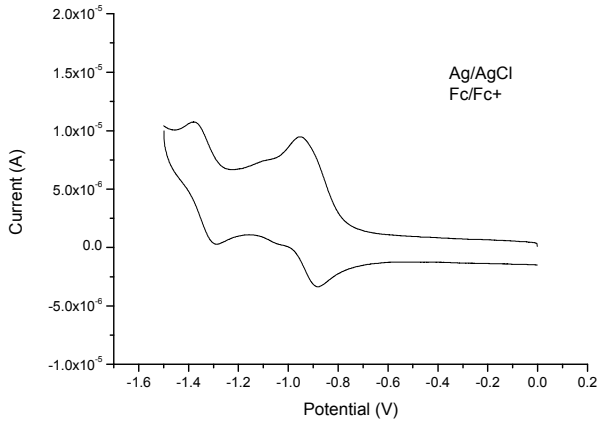
ε= 1380

ΔE = 1.95 eV

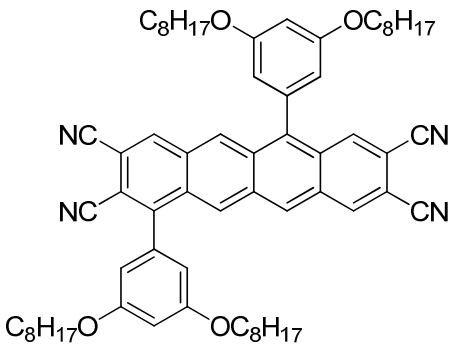


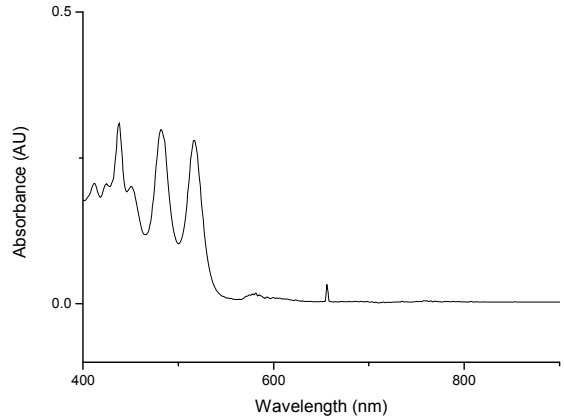
PLλ_{max} = 640 nm

EX WL = 611 nm



Reduction Potential (V)		LUMO (eV)
Ep1 : -0.88	$Ep_{1/2}$: -0.92	-3.39
Ep2 : -0.95		
Ep3 : -1.29	$Ep_{1/2}$: -1.34	-2.97
Ep4: -1.38		

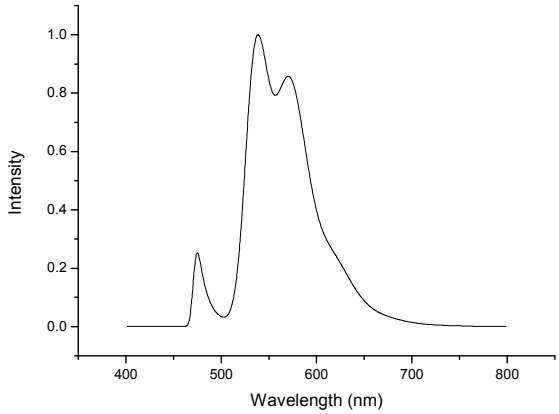




UV λ_{max} = 516 nm

ε = 3955

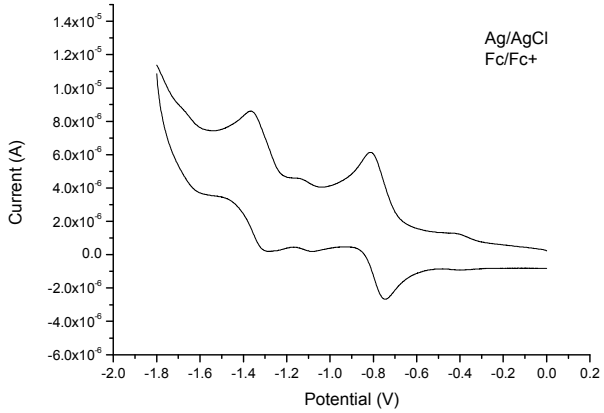
ΔE = 2.32 eV



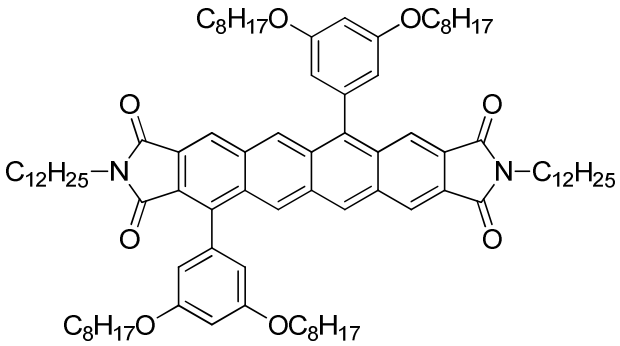
PL λ_{max} = 570 nm

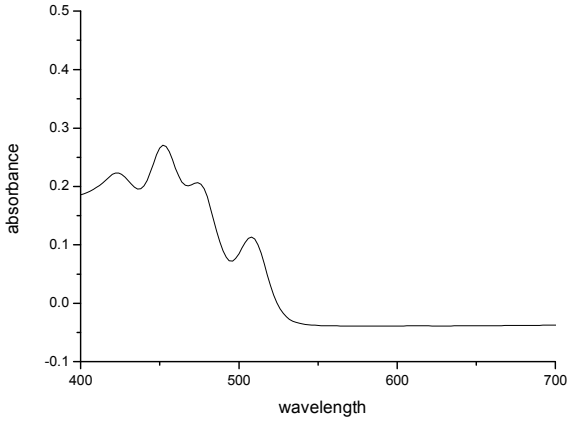
EX WL = 473 nm

Φ = 20%



Reduction Potential (V)		LUMO (eV)
Ep1 : -0.75	$Ep_{1/2}$: -0.78	-3.53
Ep2 : -0.81		
Ep3 : -1.29	$Ep_{1/2}$: -1.33	-2.98
Ep4: -1.33		

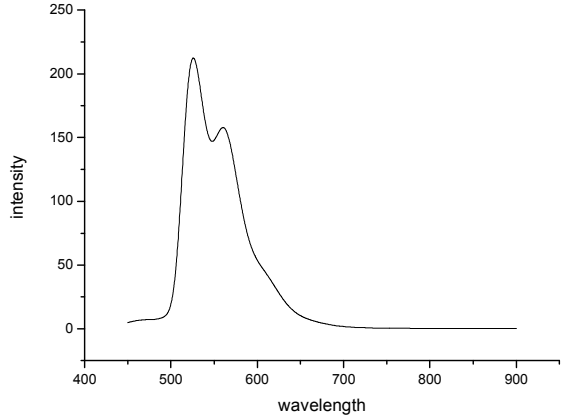




UV λ_{max} = 508 nm

ε = 1932

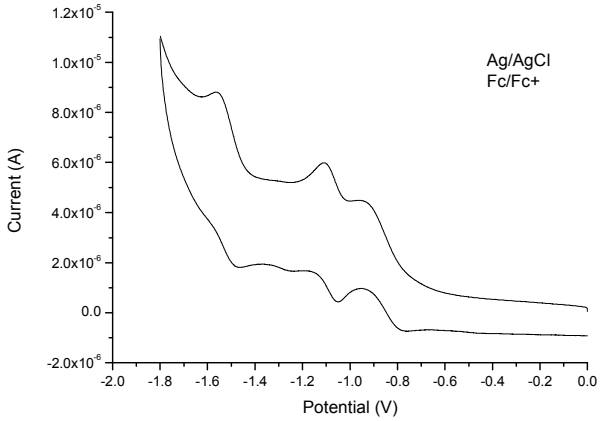
Δ E = 2.35 eV



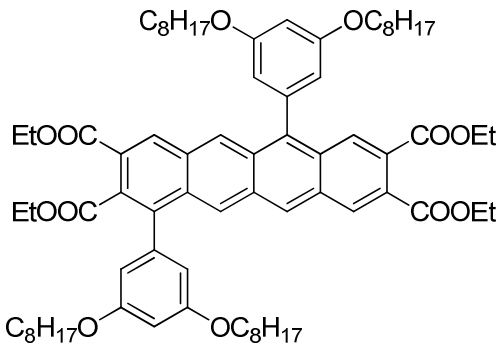
PL λ_{max} = 561 nm

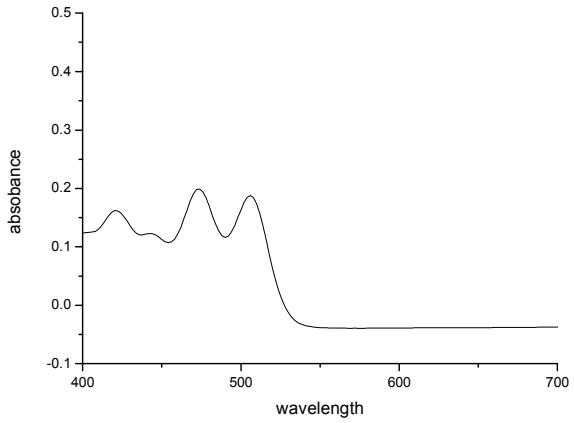
EX WL = 446 nm

Φ = 42%



Reduction Potential (V)		LUMO (eV)
Ep1 : -1.05	$Ep_{1/2}$: -1.08	-3.23
Ep2 : -1.11		
Ep3: -1.47	$Ep_{1/2}$: -1.52	-2.79
Ep4 : -1.56		

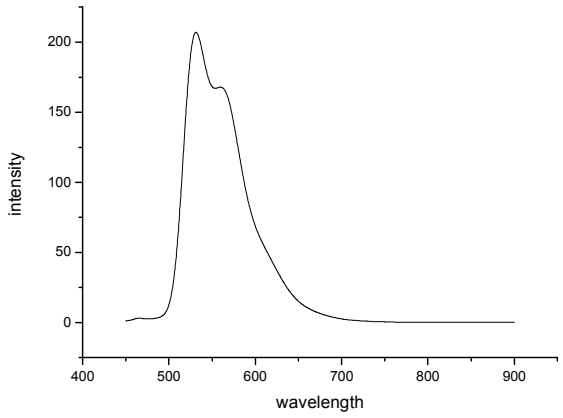




UV λ_{max} = 506 nm

ε = 3159

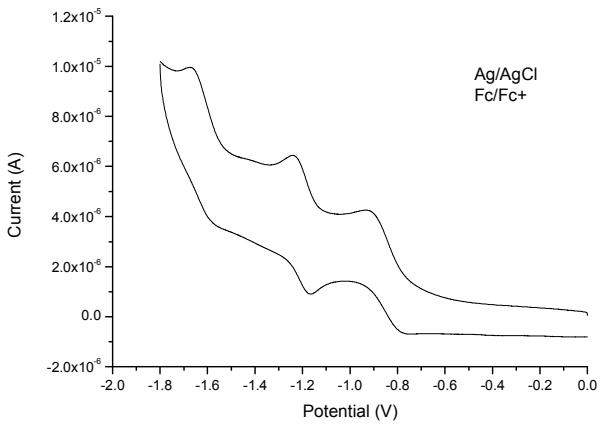
Δ E = 2.35 eV



PL λ_{max} = 560 nm

EX WL = 461 nm

Φ = 45%



Reduction Potential (V)		LUMO (eV)
Ep1 : -1.16	$Ep_{1/2}$: -1.20	-3.11
Ep2 : -1.23		
Ep3: -1.56	$Ep_{1/2}$: -1.61	-2.70
Ep4 : -1.66		