Supporting Information for

Three-dimensional conductive porous organic polymers based on tetrahedral polythiophene for high-performance supercapacitors

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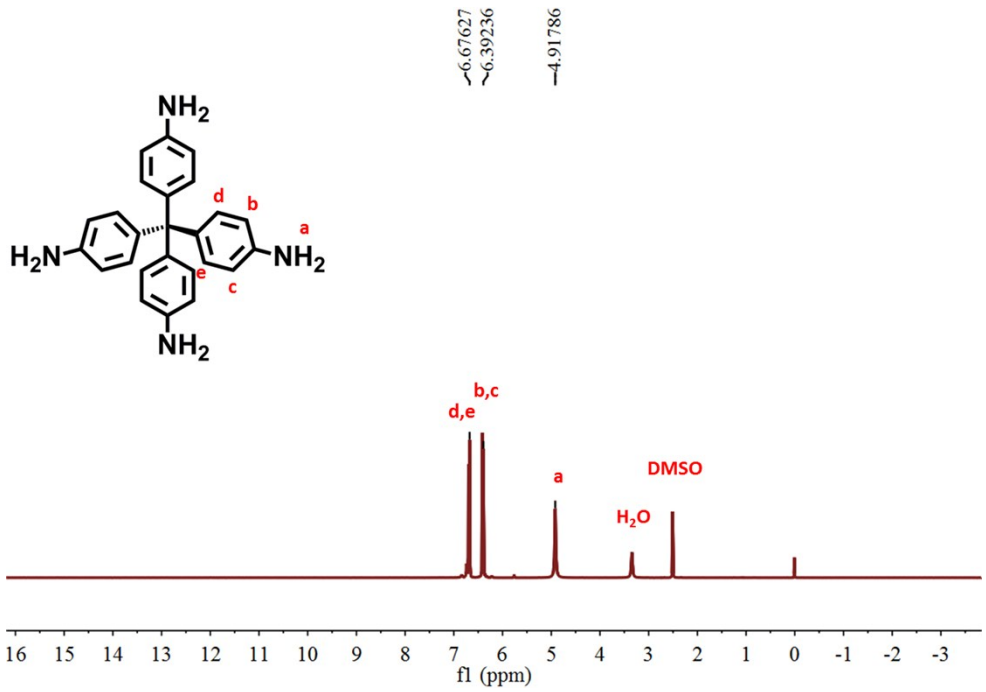

Fig. S1 ^{1}H-NMR spectra of TAPM.

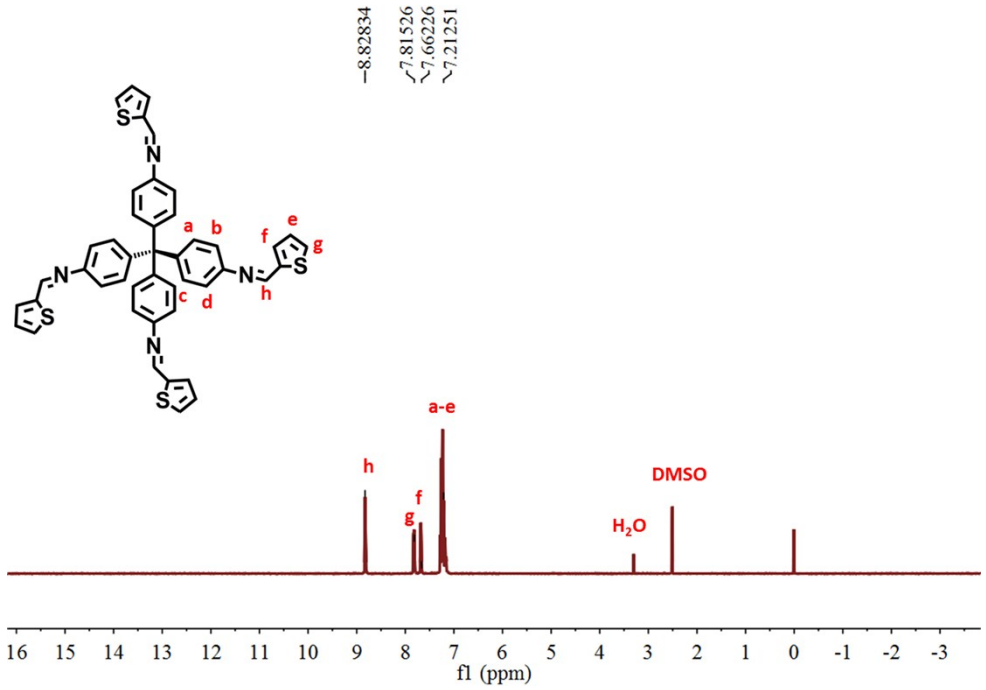

Fig. S2 ^{1}H-NMR spectra of MTH-1.

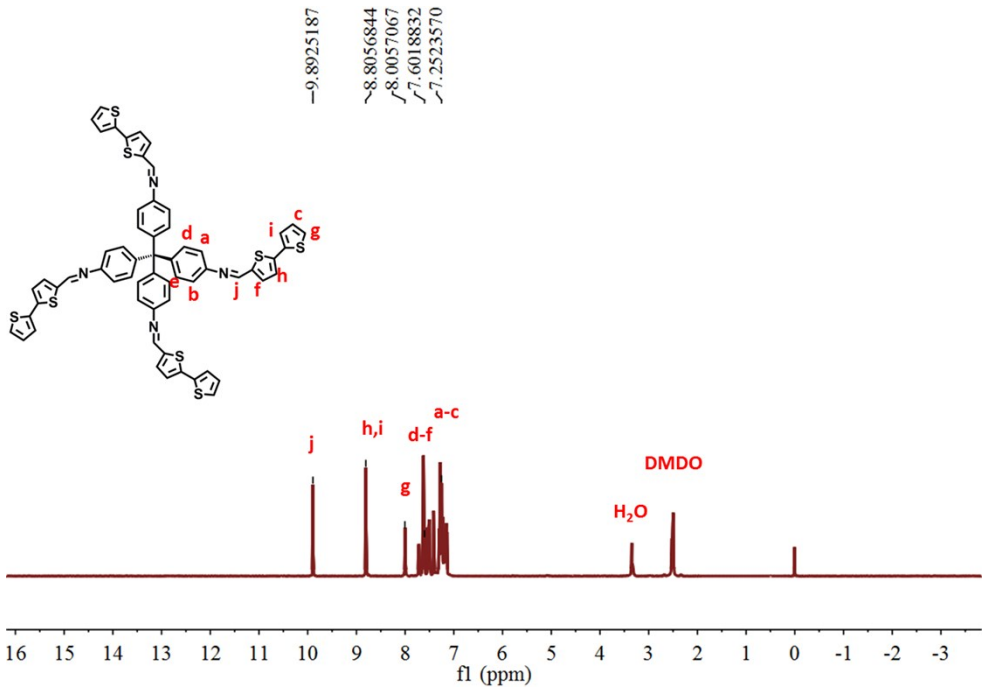

Fig. S3 ^{1}H-NMR spectra of MTH-2.

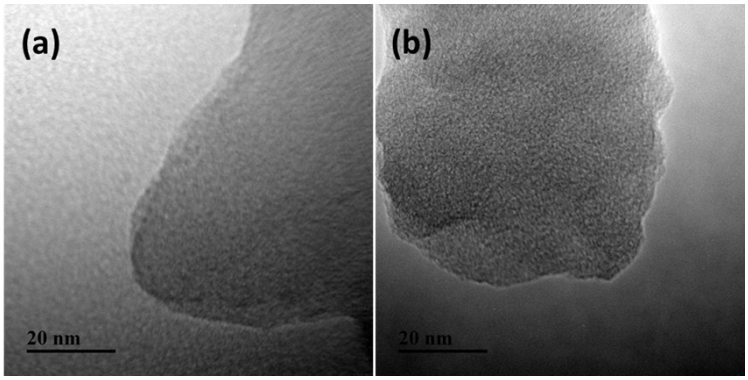

Fig. S4 Magnification TEM images of (a) **POP-1** and (b) **POP-2**.

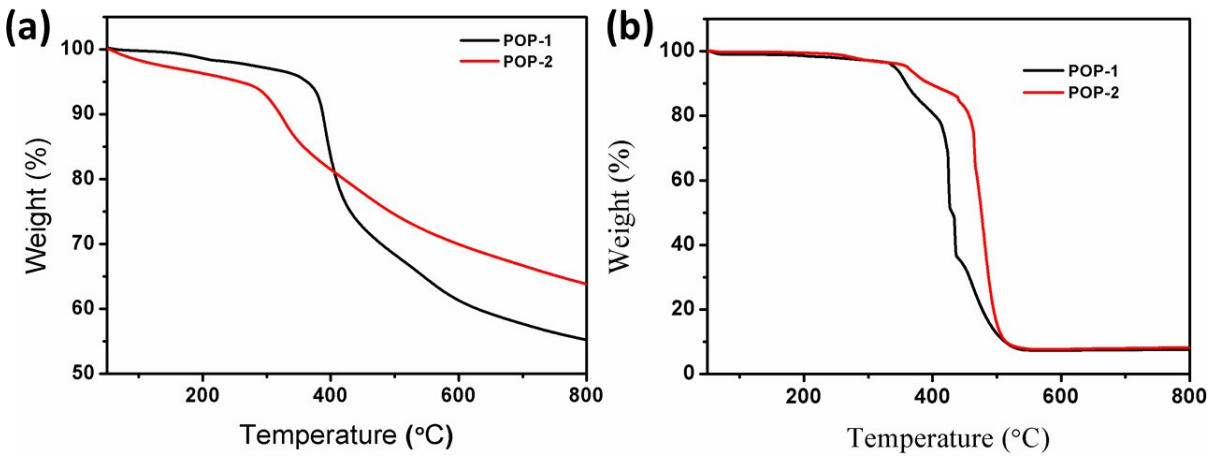

Fig. S5 TGA analysis of **POP-1** and **POP-2** (a) under N_2 atmosphere and (b) at room atmosphere.

X-ray crystallographic data

Table S1 Summary of crystallographic data for MTH-1.

	MTH-1
Formula	$C_{45}H_{32}N_4S_4$
Fw	756.99
T (K)	173
λ (Å)	0.71073
Crystal system	monoclinic
Space group	*C2/c*
a (Å)	22.728(6)
b (Å)	7.4934(18)
c (Å)	21.408(6)
α (^{0})	90
β (^{0})	90.113(11)
γ (^{0})	90
V (Å^3)	3646.0(17)
Z	4
Dcalc (g/cm^3)	1.379
μ (mm^{-1})	0.301
F(000)	1576
θ (^{0})	2.617, 24.490
Index ranges	-26<=h<=26 -8<=k<=8 -24<=l<=24
Reflections collected	11991
GOF (F^2)	1.168
R_1[a],wR_2[b] (I>2σ(I))	0.0811, 0.1947
R_1[a],wR_2[b] (all data)	0.1432, 0.2266

$R_1{}^a = \Sigma||F_o| - |F_c||/\Sigma F_o|$. $wR_2{}^b = [\Sigma w(F_o{}^2 - F_c{}^2)^2/\Sigma w(F_o{}^2)]^{1/2}$

Table S2. Selected bond lengths [Å] and angles [°] for MTH-1.

		MTH-1	
C1-C2	1.5127(4)	C13-C1-C13(A)	104.82(1)
C1-C13	1.5187(4)	C2(A)-C1-C13(A)	111.95(1)
C1-C2(A)	1.5127(4)	C1-C2-C3	119.13(1)
C1-C13(A)	1.5187(4)	C14 -C15-C16	119.97(1)
C2-C3	1.3723(4)	C15 -C16-C17	118.20(1)
S1-C9	1.6950(5)	C16 -C17-C18	121.52(1)
S1-C12	1.6817(5)	C13-C18-C17	120.82(1)
S2-C20	1.6969(5)	C5-N2-C8	119.58(1)
S2-C23	1.6756(5)	C16-N2-C19	118.27(1)
N1-C5	1.3927(4)	C2-C1-C13	111.95(1)
N1-C8	1.2556(4)	C2-C1-C2(A)	104.48(1)
N2-C16	1.3911(4)	C2-C1-C13(A)	111.93(1)
N2-C19	1.2601(4)	C2(A)-C1-C13	111.93(1)

Symmetry transformations used to generate equivalent atoms: A = *-x, y, 1/2-z*