

Supporting Information

A series of 4,5,9,10-tetrahydropyrene-based tetraarylethenes: synthesis, structures and solid-state emission behaviors

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Table S1

Crystal data and structure refinement parameters for compounds **1** and **4**

	Compound 1	Compound 4
Formula	C ₃₅ H ₂₈	C ₅₆ H ₄₄
Formula weight	460.58	716.91
Temperature (K)	293(2)	293(2)
Crystal system	monoclinic	triclinic
Space group	<i>P</i> 2 ₁ / <i>c</i>	<i>P</i> -1
<i>a</i> (Å)	8.5141(17)	8.1823(16)
<i>b</i> (Å)	17.426(4)	12.694(3)
<i>c</i> (Å)	17.000(3)	19.994(4)
α (°)	90.0000(0)	90.14(3)
β (°)	97.44(3)	93.52(3)
γ (°)	90.0000(0)	101.80(3)
Volume (Å ³)	2500.9(9)	2028.7(7)
<i>Z</i>	4	2
ρ_{calcd} (g cm ⁻³)	1.223	1.174
μ (Mo - K α) (mm ⁻¹)	0.069	0.066
F(000)	976	760
Crystal size (mm)	0.10 × 0.08 × 0.06	0.08 × 0.08 × 0.06
Independent reflections	4387	7079
Reflections [<i>I</i> > 2 σ (<i>I</i>)]	3540	4032
θ range (°)	3.19-25.00	3.16-25.00
Goodness-of-fit on F ²	1.091	1.051
R ₁ [<i>I</i> > 2 σ (<i>I</i>)]	0.0832	0.0816
wR ₂ (all data)	0.2169	0.2150