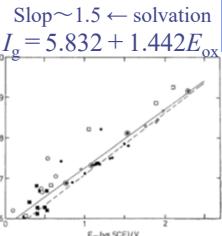


Conversion of redox potentials to ionization energy

	I/eV^*	Ref.	UPS	E_{p}/V	Yield	Ref.	(vs SCE)
Benzene	9.17	69	7.3	118	2.30		
Naphthalene	8.12*	69	6.4	43	1.54		
Anthracene	7.36*	69	X5.6 ₁	24	1.09		
Naphthacene	6.89*	69	5.10	43	0.77		
Pentacene	6.58*	69	4.85	90			
Phenanthrene	7.86	73	X6.0 ₄	25	1.50		
Chrysene	7.51	73	5.8	43	1.35		
Benz[a]anthracene	7.38*	73	5.64	90	1.18		
Trisubenyne	7.81	75	6.2	91	1.55		
Dibenz[a,h]anthracene	7.35	46	5.55	91	1.19		
Picene	7.5	73	5.7	91	1.33		
Pyrene	7.37	75	X5.5 ₅	25	1.16		
Benz[a]pyrene	7.12	73	5.4	124	1.27		
Perylene	6.90*	43	X5.1 ₁	18	0.85		
Benz[ghi]perylene	7.12*	73	X5.2 ₄	25	1.01		
Coronene	7.25*	75	5.52	90	1.23		



Seki, Mol. Cryst. Liq. Cryst. 171, 255 (1989).

Electrochemical reference electrodes (cyclic voltammetry)
Standard calomel Hg₂Cl₂ vs. SCE = 0.24 V NHE
vs. Ag/AgCl = 0.22 V NHE

$$\begin{aligned}\text{Ferrocene} &= 0.38 \text{ V vs. SCE} \\ E &= E_{\text{redox}}(\text{vs. SCE}) + 4.4 \text{ V} \\ &= E_{\text{redox}}(\text{vs. Ferrocene}) + 4.8 \text{ V}\end{aligned}$$

Tang, J. Am. Chem. Soc. 130, 6064 (2008); H. Meng, Chem. Mater. 15, 1778 (2003); De Leeuw, Synth. Met. 87, 53 (1997); Tang, J. Am. Chem. Soc. 131, 5264 (2009).

