

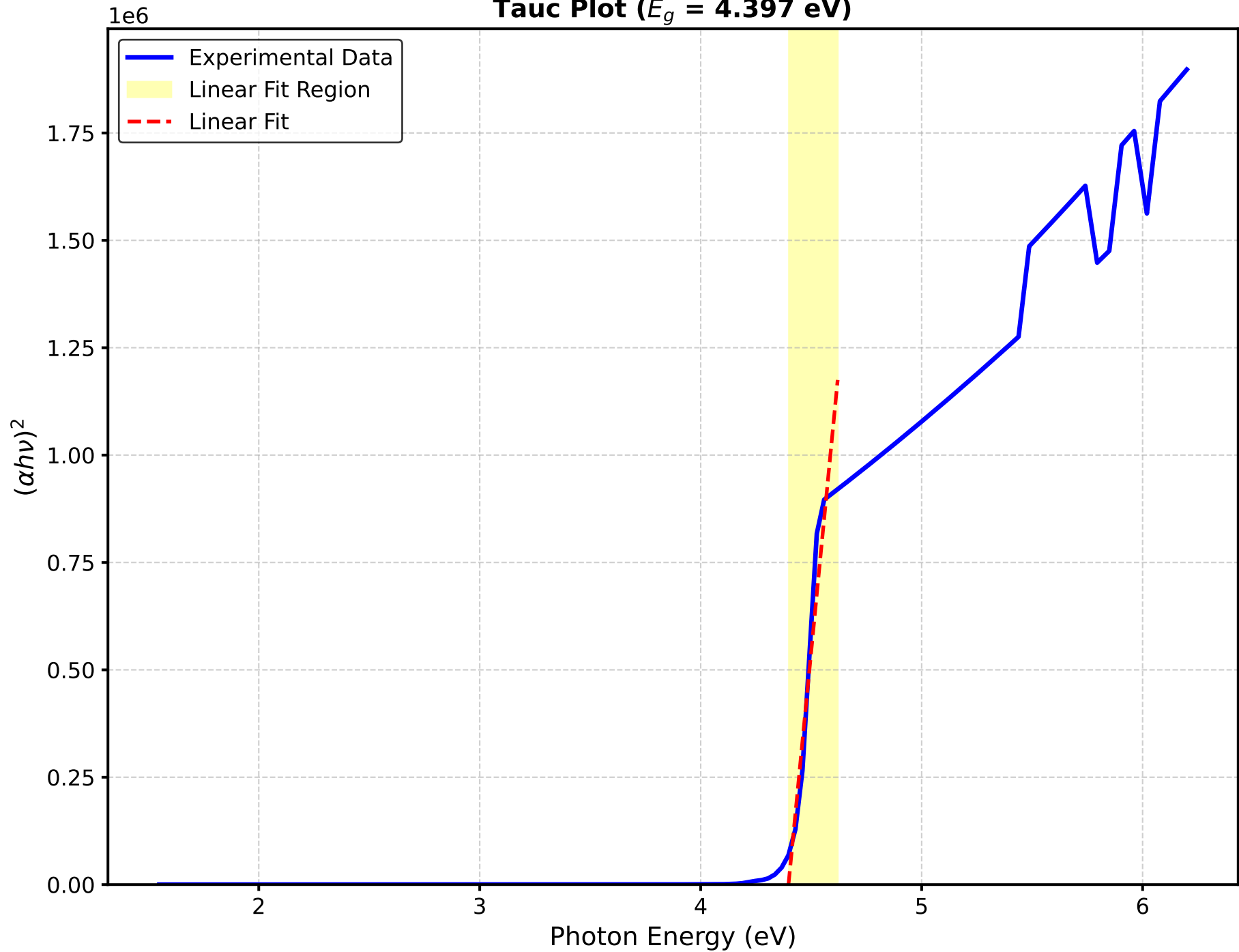
OPTICAL PROPERTIES ANALYSIS REPORT

Generated on: 2026-05-20 08:22

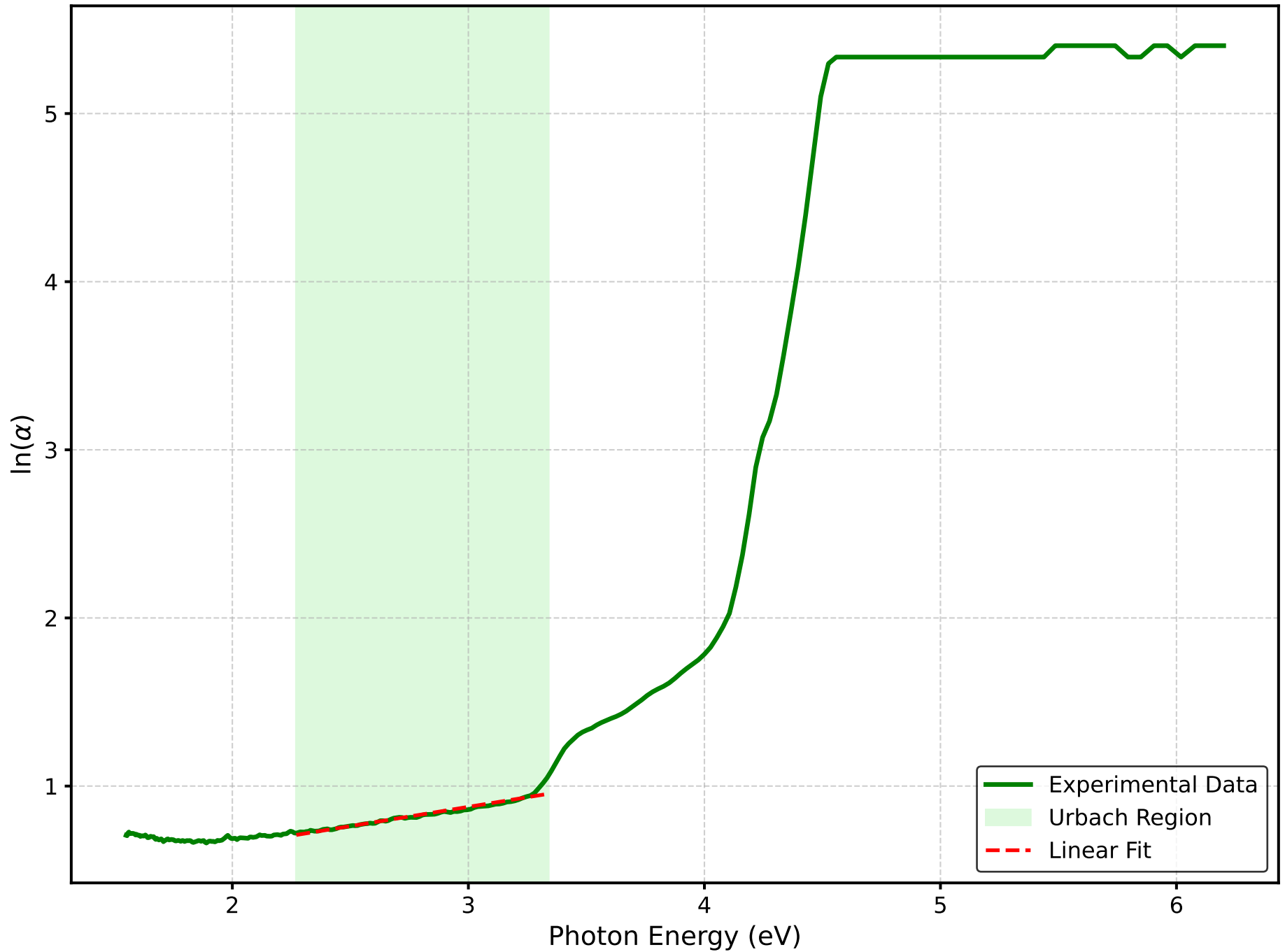
Automated UV-Vis Data Processing via Python

Parameter	Calculated Value	Unit	R-squared
Optical Band Gap (E_g)	4.3974	eV	0.9229
Urbach Energy (E_u)	4364.67	meV	0.9523
Avg Refractive Index (n)	1.6752	-	-
Avg Optical Conductivity (σ)	1.0384e+11	S/cm	-

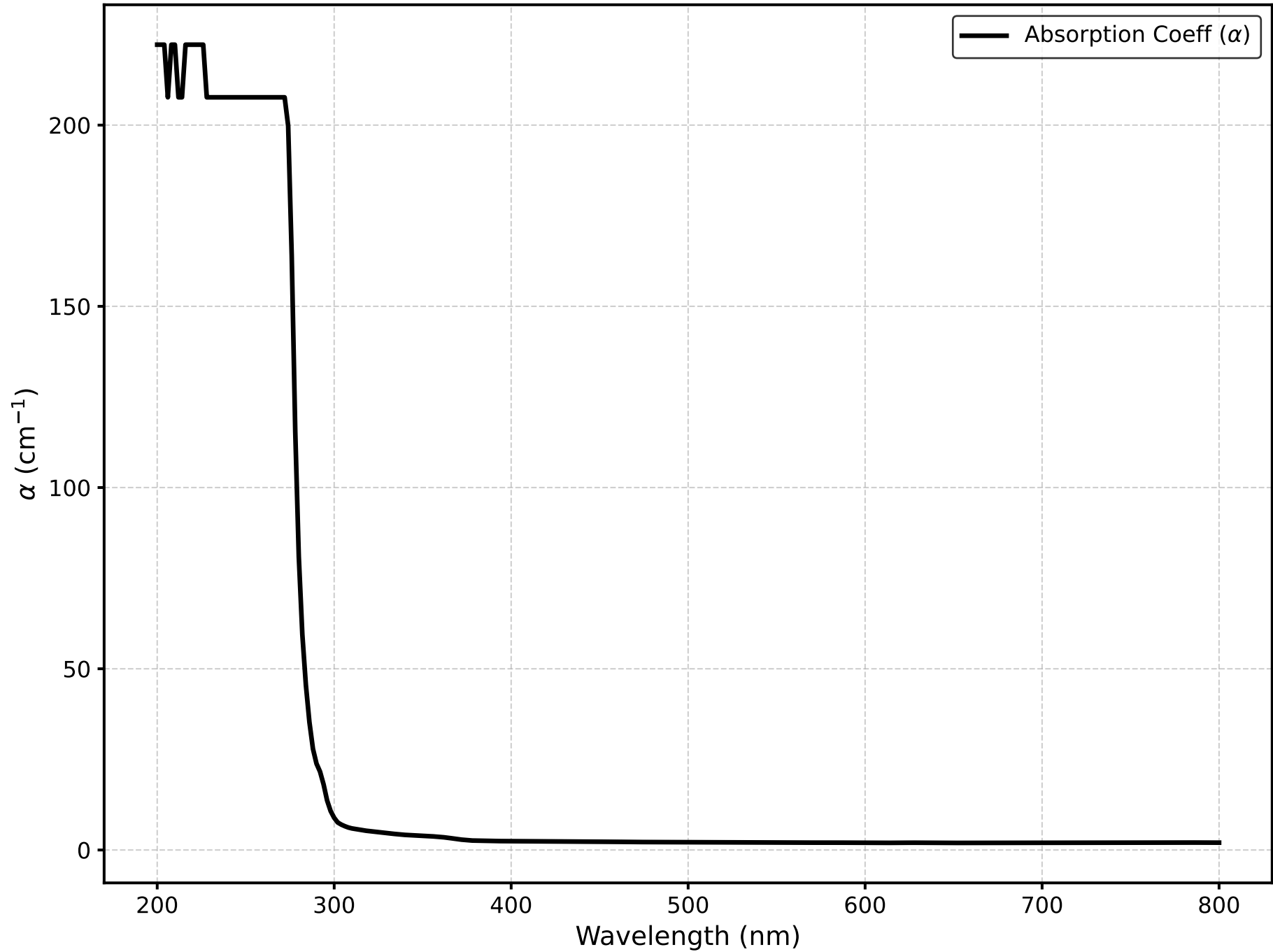
Tauc Plot ($E_g = 4.397$ eV)



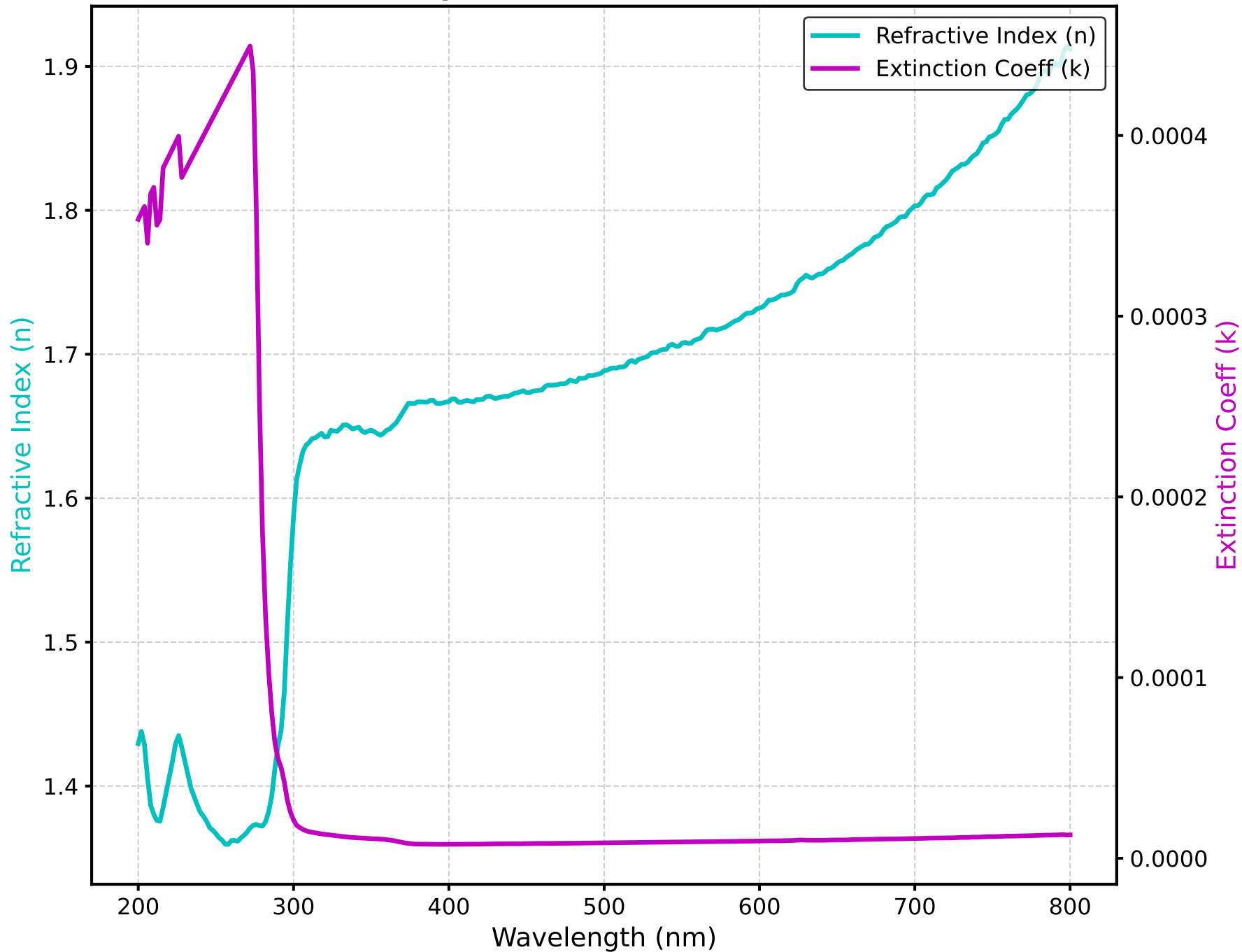
Urbach Tail ($E_u = 4364.7$ meV)



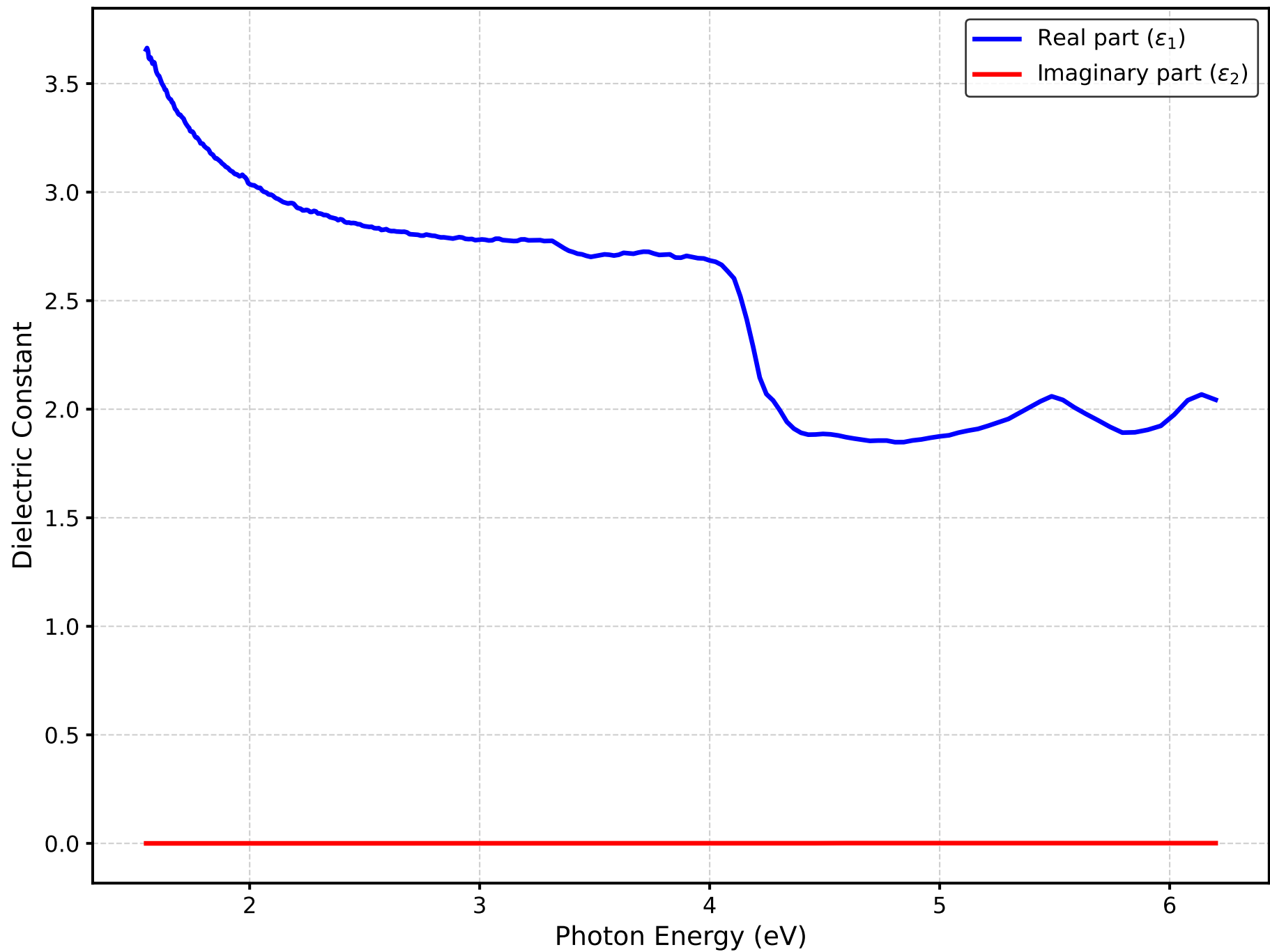
Absorption Coefficient



Optical Constants (n & k)



Dielectric Function



Raw Optical Spectra (T & R)

