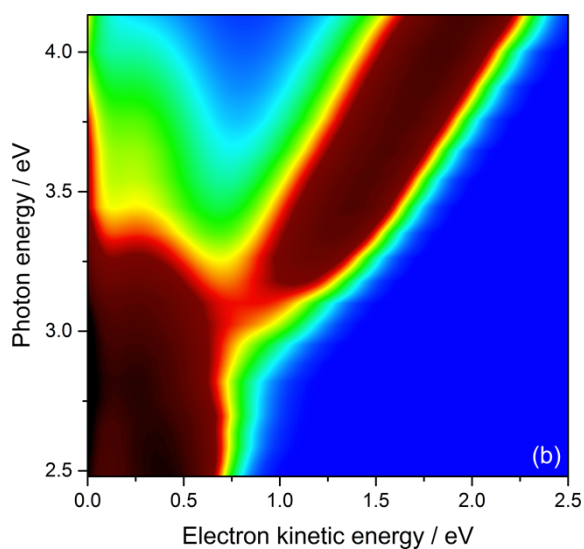
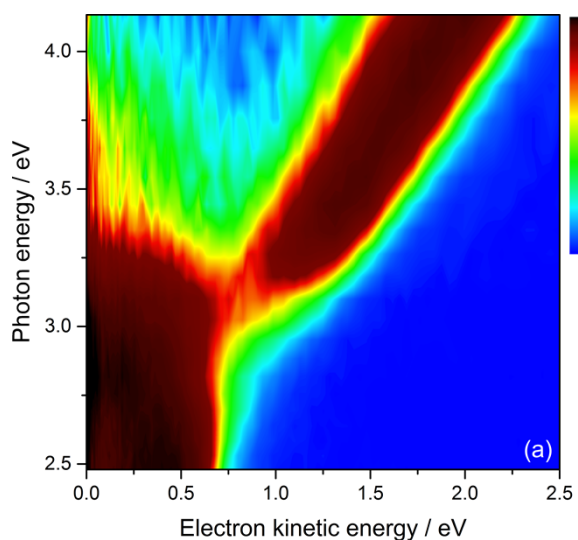


Electronic Supplementary Information (ESI) for “Anion resonances and above-threshold dynamics of coenzyme Q₀”

pBQ frequency-resolved data and global-fit

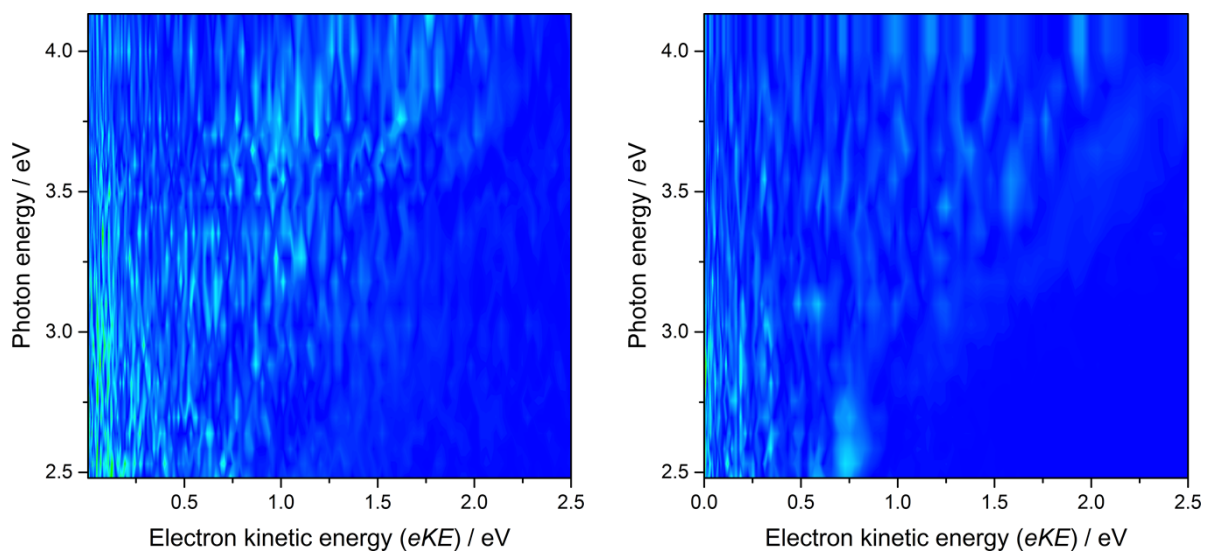
- (a) Frequency-resolved photoelectron spectra of pBQ anion taken from West *et al.*
- (b) Globally-fitted model of experimental data.

All data has been plotted on the same intensity scale as Fig. 3 in the manuscript.

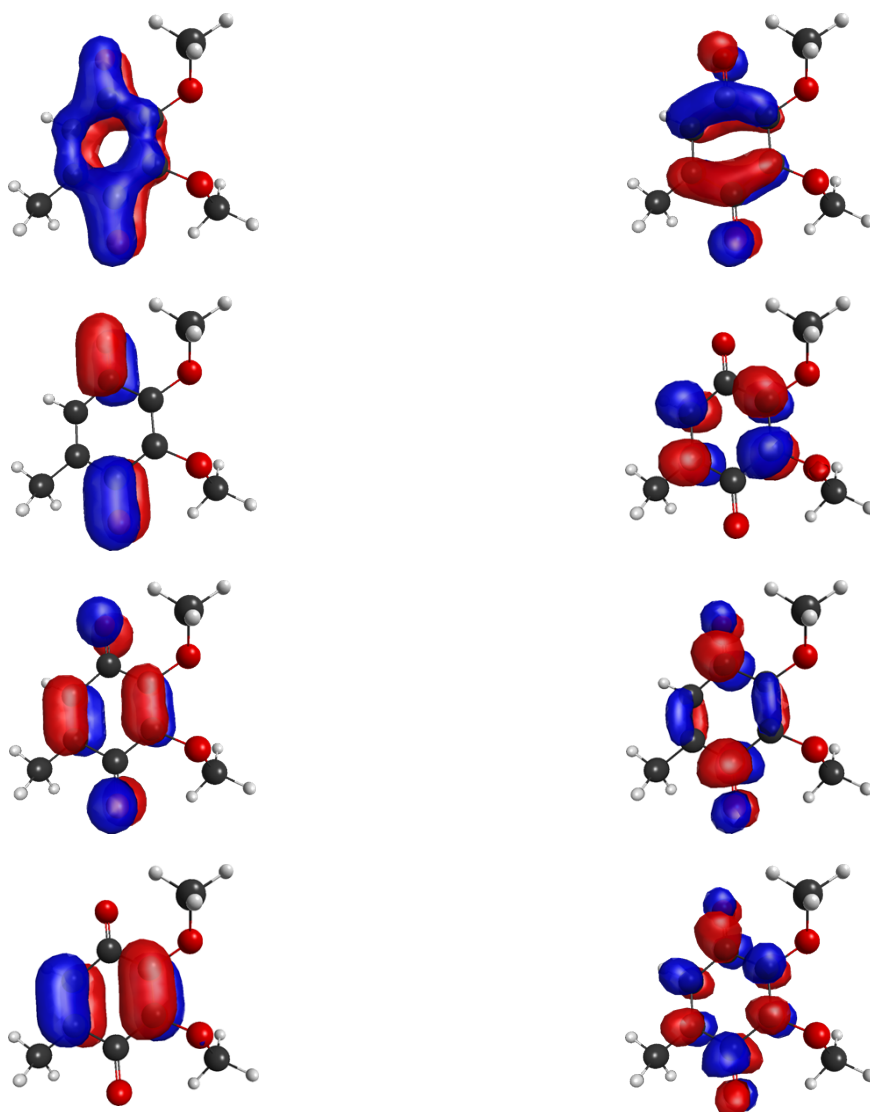


Residuals in the global frequency-resolved photoelectron spectrum fit

Residual is plotted on the same intensity scale as the globally-fitted signal. The small residuals are proportional to the noise in each reconstructed photoelectron spectrum. Left: Co-enzyme Q₀. Right: *para*-benzoquinone. There is no evidence of systematically unassigned residual.



π (left) and π^* (right) MCSCF optimized orbitals of co-enzyme Q_0



All frequency-resolved PE spectra

