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Vibronic Coupling and Photoelectron Angular Distributions: All May Not Be As It Seems

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Improved resolution and flexible polarization control are providing new opportunities to track photoelectron angular distributions over extended photon energy ranges with full vibrational resolution. Such studies provide fresh insight into both well-established vibrational coupling mechanisms and some newer phenomena. The importance of a sound understanding and knowledge of these vibronic coupling effects, whether or not directly observed in an experiment, is emphasised in the context of proposed developments of chiral molecule analytical techniques.

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