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Perylene-based metal-organic frameworks for photochemical applications

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The presented study focuses on the synthesis and characterization of three different perylene-based MOFs, for the investigation of photophysical energy transfer and its conversion to shed light on structure-property relationships. Photophysical characterization of the obtained materials showed characteristics of H-type aggregates being dominant. The solid-state structures as obtained by SC-XRD are presented and photophysical implications thereof as well as potential applications are discussed.

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