

Visible light Photocatalysis with Tetrakis
(4-carboxyphenyl)porphyrin bridged periodic mesoporous organosilica

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In this work, A new route is introduced for J-aggregated TCPP (tetrakis(4-carboxyphenyl)porphyrin) moiety bridged periodic mesoporous organosilica (PMO) which could give chirality by chiral inductor factors such as specific CTAB ratio, D/L-($-/+$)-tartaric acid. These are because of so-called chiral symmetry breaking of TCPP-silane during assembly. These materials were illustrated to give superiority in the oxidation of various alcohols under sunlight as well as hydrogenations.