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Title:	Bimodal photocatalytic behaviour of a zinc β -diketiminate: application to trifluoromethylation reactions
Authors:	Singh, Kirti (/jspui/browse?type=author&value=Singh%2C+Kirti)
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Issue Date:	2022
Publisher:	Royal Society of Chemistry
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Abstract:	A photoactive zinc β -diketiminate complex spans a wide redox window of 3.97 V at its excited state. Having a highly reducing excited-state potential, it generates an electrophilic trifluoromethyl radical by the reductive cleavage of triflyl chloride. This leads to trifluoromethylation of a set of arenes and heteroarenes. During the oxidative quenching of the photocatalyst, a ligand-centered radical cation is formed, which has been detected by spectroelectrochemical EPR measurement.
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