Title: Photocatalytic CO_2 Reduction Using Binary Metal-Porphyrins as Photosensitizer and Catalyst units

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Photocatalytic CO_2 reduction consisting of both ZnTCPP and FeTCPP efficiently proceeded due to optimized electron transfer within their close distance. Furthermore, employing a metal-organic framework (MOF) containing ZnTCPP, FeTCPP linkers, and ZrO clusters exhibited substantial CO_2 reduction capabilities.