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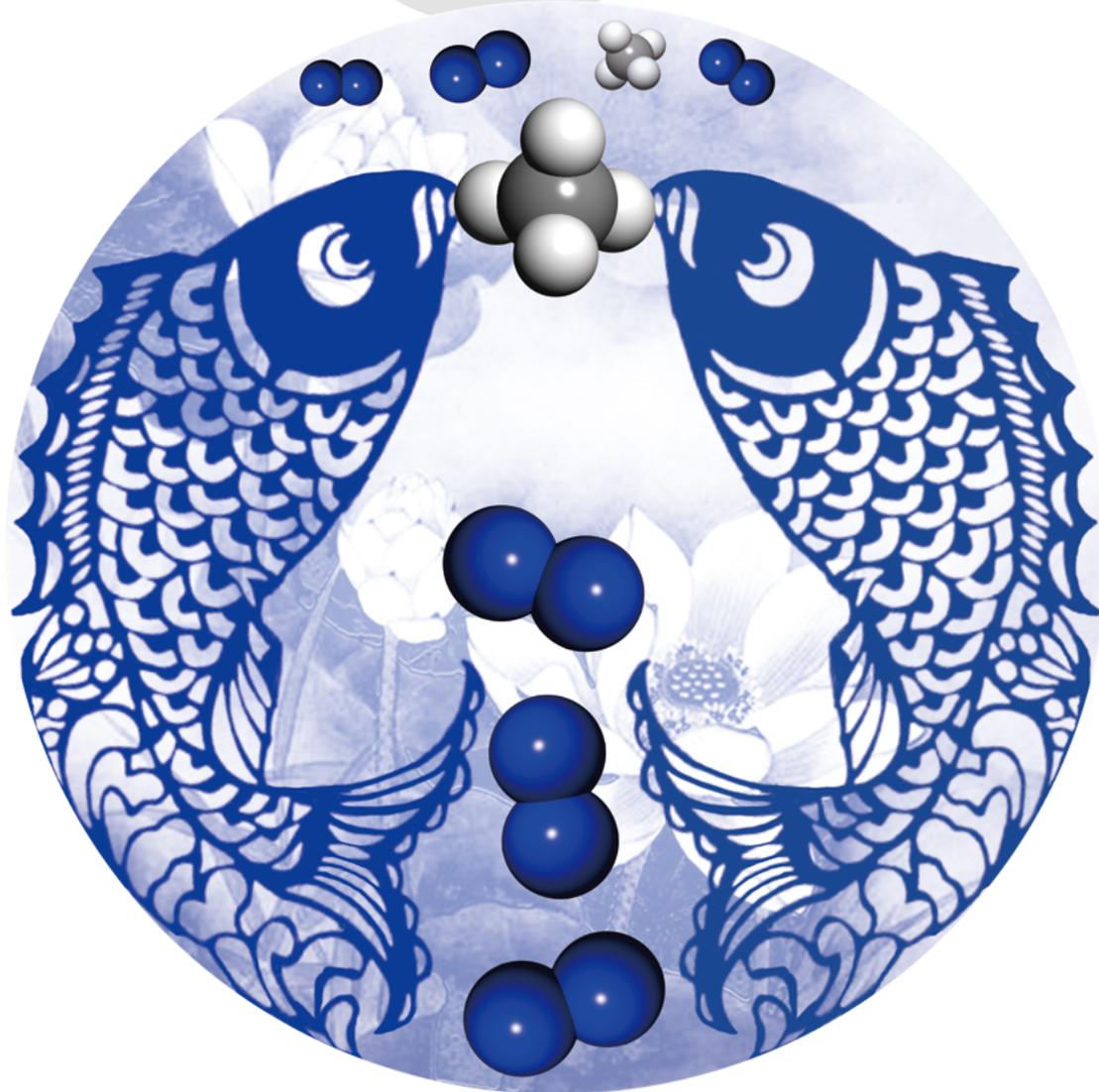
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A methane nano-trap based on an alkyl metal–organic framework (MOF) and featuring oppositely adjacent open metal sites and dense alkyl groups is reported by S. Ma, Z. Niu, and co-workers in their Communication (DOI: 10.1002/anie.201904507). The methane nano-trap endows MOF with the record-high methane uptake and excellent CH<sub>4</sub>/N<sub>2</sub> separation performance, thereby providing a new perspective for capturing methane from coal-mine methane to recover fuel and reduce greenhouse gas emissions.

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