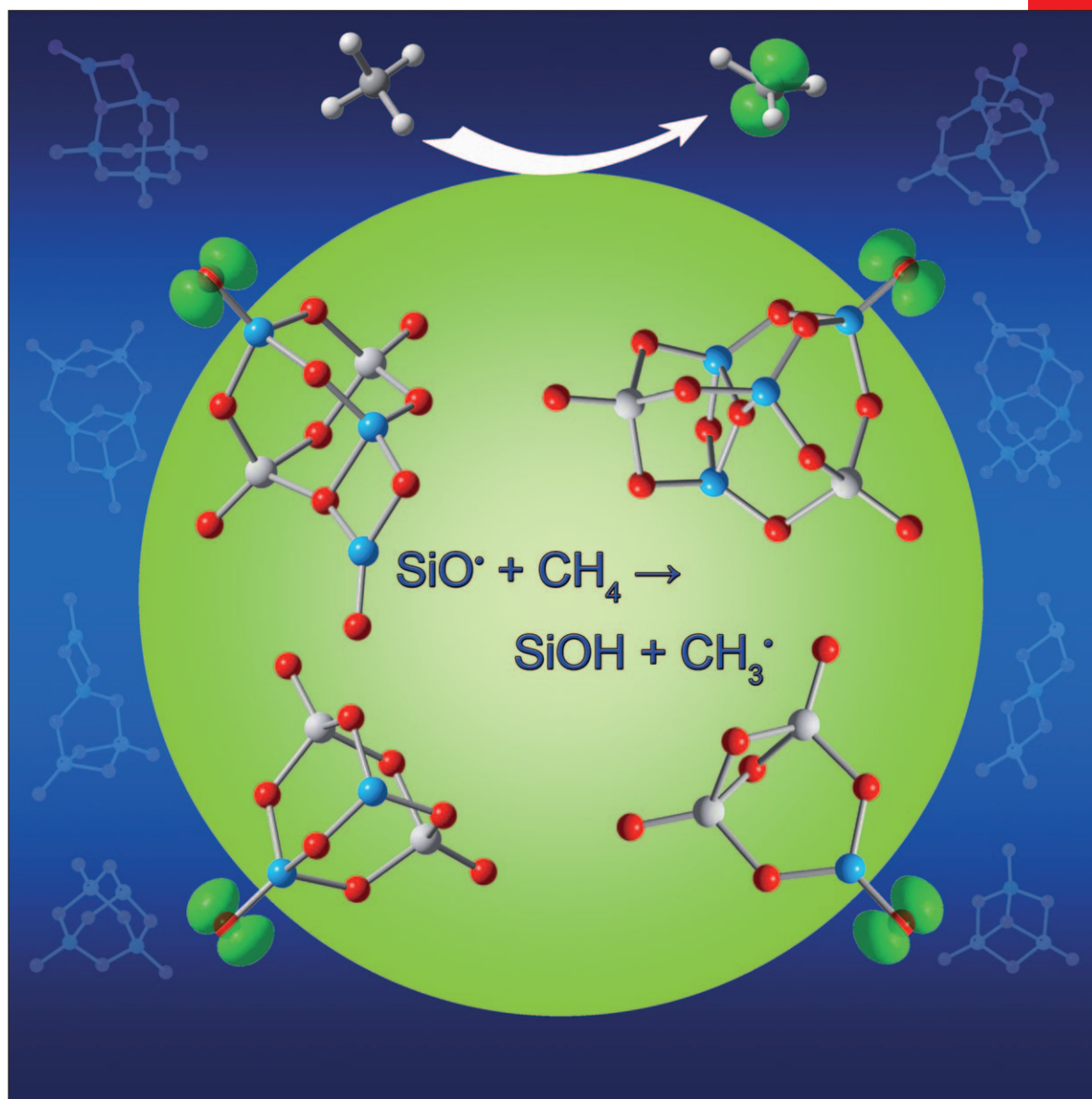


# CHEMISTRY

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### Time-of-flight...

...mass spectrometry and density functional theory were used to study the reactions of vanadium–silicon heteronuclear oxide cluster cations with methane. In their Full Paper on page 11463 ff., S.-G. He et al. demonstrate that the stoichiometric oxide clusters  $[\text{V}_2\text{O}_5(\text{SiO}_2)_{1-4}]^+$  and  $[(\text{V}_2\text{O}_5)_2\text{SiO}_2]^+$ , which contain terminal-oxygen-centered radicals ( $\text{O}_t^\bullet$ ) responsible for high C–H activation, are able to activate methane under near-room-temperature conditions.

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## Inside Cover

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