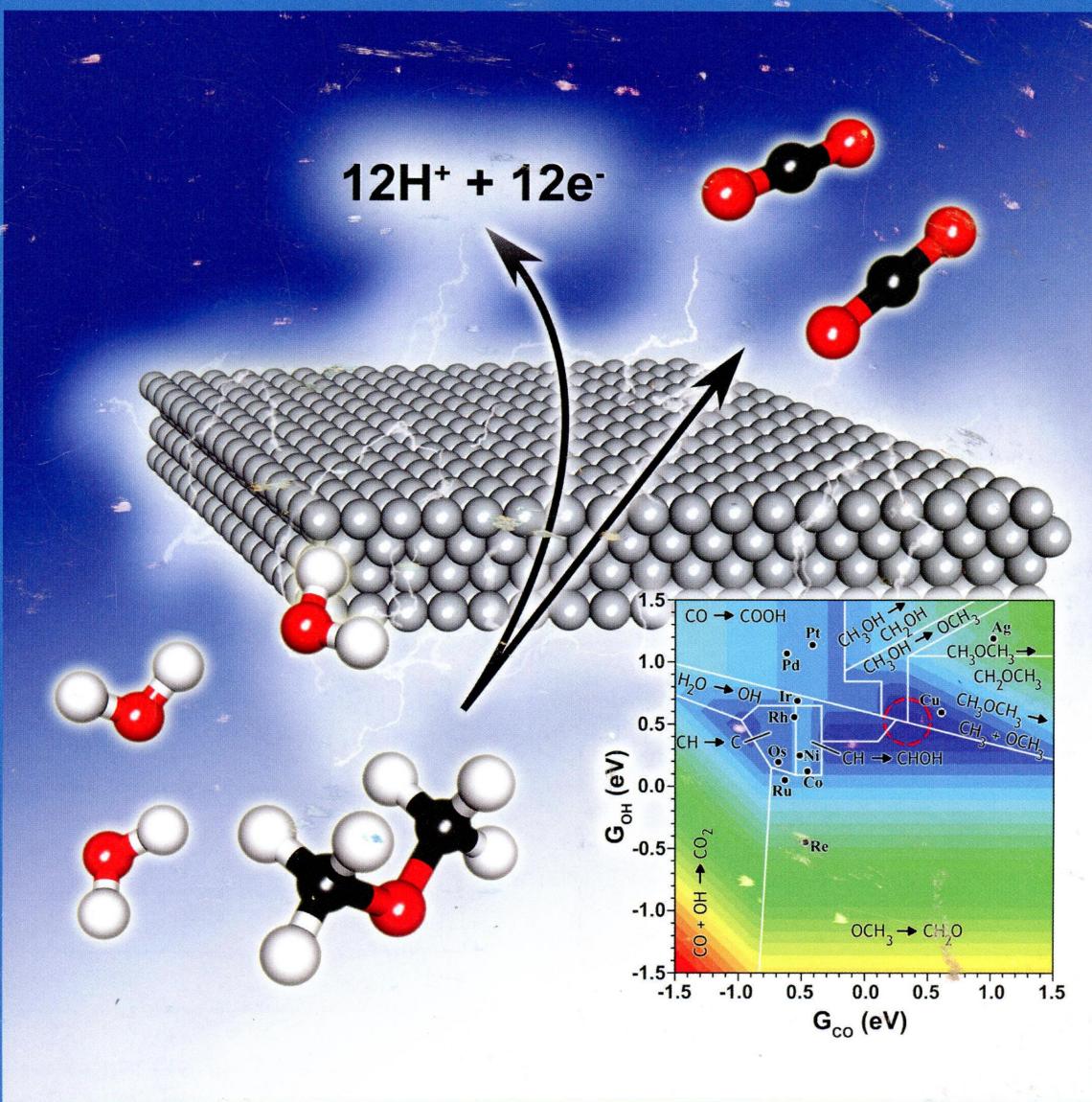


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ON THE COVER: Catalyst design from first-principles: dimethyl ether electro-oxidation. Theoretical phase diagram (lower right) showing the free energy of reaction for the most energetically difficult step as a function of reactivity descriptors: free energies of adsorbed CO and OH. Monometallic closepacked surfaces are indicated for reference. The blue color indicates the region of highest activity (circled in red), while the region colored in red is the least active. See page 24199

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Kyongok Kang,* J. S. Hong, and J. K. G. Dhont

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