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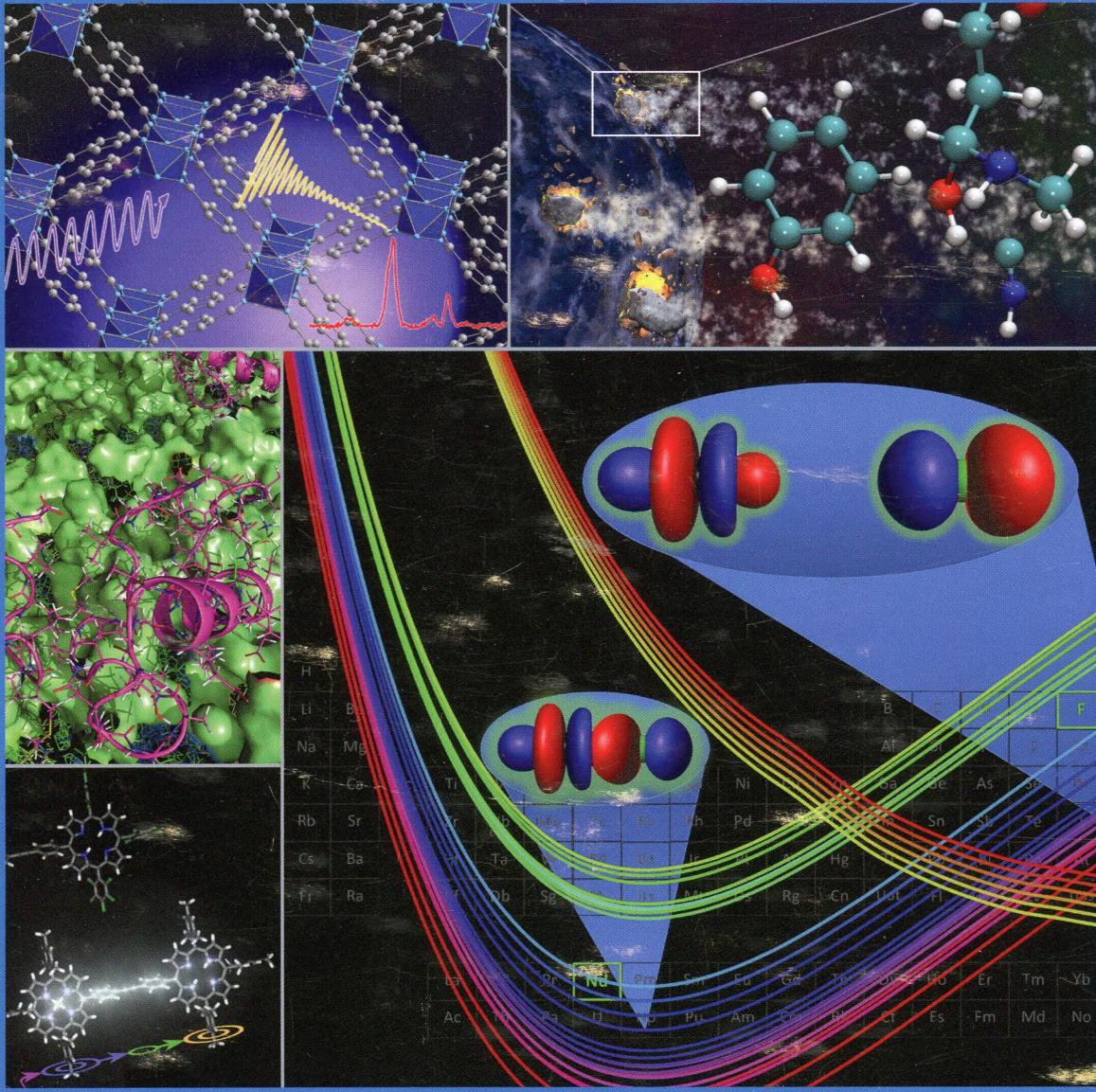
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**ON THE COVER:** Collage of cover art from recent issues of *J. Phys. Chem.* Top Left:  $^{17}\text{O}$  Solid-State NMR Spectra Provide Signatures of Various Oxygen Species in Metal-Organic Frameworks (*J. Phys. Chem. C* 2013, 117 (33), 16953–16960). Center Left: Behavior of Amyloid  $\beta$ -Peptides on a Ganglioside-Containing Membrane Surface (*J. Phys. Chem. B* 2013, 117 (27), 8085–8094). Bottom Left: Bridge-Mediated EET in Porphyrin Dimers: Electronic Coupling Reduced by Fluorination (*J. Phys. Chem. C* 2013, 117 (24), 12423–12431). Top Right: Synthesis of Prebiotic Hydrocarbons in Impacts of Simple Icy Mixtures on Early Earth (*J. Phys. Chem. A* 2013, 117 (24), S124–S131). Bottom Right: Computed Potential Energy Curves for Quartet, Doublet, and Sextet States of NdF $^{2+}$  (*J. Phys. Chem. A* 2013, 117 (42), 10881–10888).

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[dx.doi.org/10.1021/jp406369a](https://doi.org/10.1021/jp406369a)

#### Chalcogenidometallate Clusters as Surface Ligands for PbSe Nanocrystal Field-Effect Transistors

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[dx.doi.org/10.1021/jp409715s](https://doi.org/10.1021/jp409715s)**Electron and Hole Injection via Charge Transfer at the Topological Insulator Bi<sub>2-x</sub>Sb<sub>x</sub>Te<sub>3-y</sub>Se<sub>y</sub>–Organic Molecule Interface**

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[dx.doi.org/10.1021/jp4105147](https://doi.org/10.1021/jp4105147)**Amorphous Ammonia–Water Ice Deposited onto Silicate Grain: Effect on Growth of Mantles Ice on Interstellar and Interplanetary Dust**

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[dx.doi.org/10.1021/jp411019t](https://doi.org/10.1021/jp411019t)**Support and Oxidation Effects on Subnanometer Palladium Nanoparticles**

Christopher J. Heard, Stefan Vajda, and Roy L. Johnston\*

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[dx.doi.org/10.1021/jp411084k](https://doi.org/10.1021/jp411084k)**From Benzenethiolate Self-Assembly to Copper Sulfide Adlayers on Cu(111): Temperature-Induced Irreversible and Reversible Phase Transitions**

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[dx.doi.org/10.1021/jp4110954](https://doi.org/10.1021/jp4110954)**Adsorption of HCN at the Surface of Ice: A Grand Canonical Monte Carlo Simulation Study**

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[dx.doi.org/10.1021/jp411324u](https://doi.org/10.1021/jp411324u)**Vicinal Rutile TiO<sub>2</sub> Surfaces and Their Interactions with O<sub>2</sub>**

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[dx.doi.org/10.1021/jp412181f](https://doi.org/10.1021/jp412181f)**Effect of H<sub>2</sub>O on the Pressure-Induced Amorphization of AlPO<sub>4</sub>-54·xH<sub>2</sub>O**

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[dx.doi.org/10.1021/jp411481p](https://doi.org/10.1021/jp411481p)**Magnetic Iron Oxide Nanoparticles: Reproducible Tuning of the Size and Nanosized-Dependent Composition, Defects, and Spin Canting**

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**InP Quantum Dots: An Environmentally Friendly Material with Resonance Energy Transfer Requisites**

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