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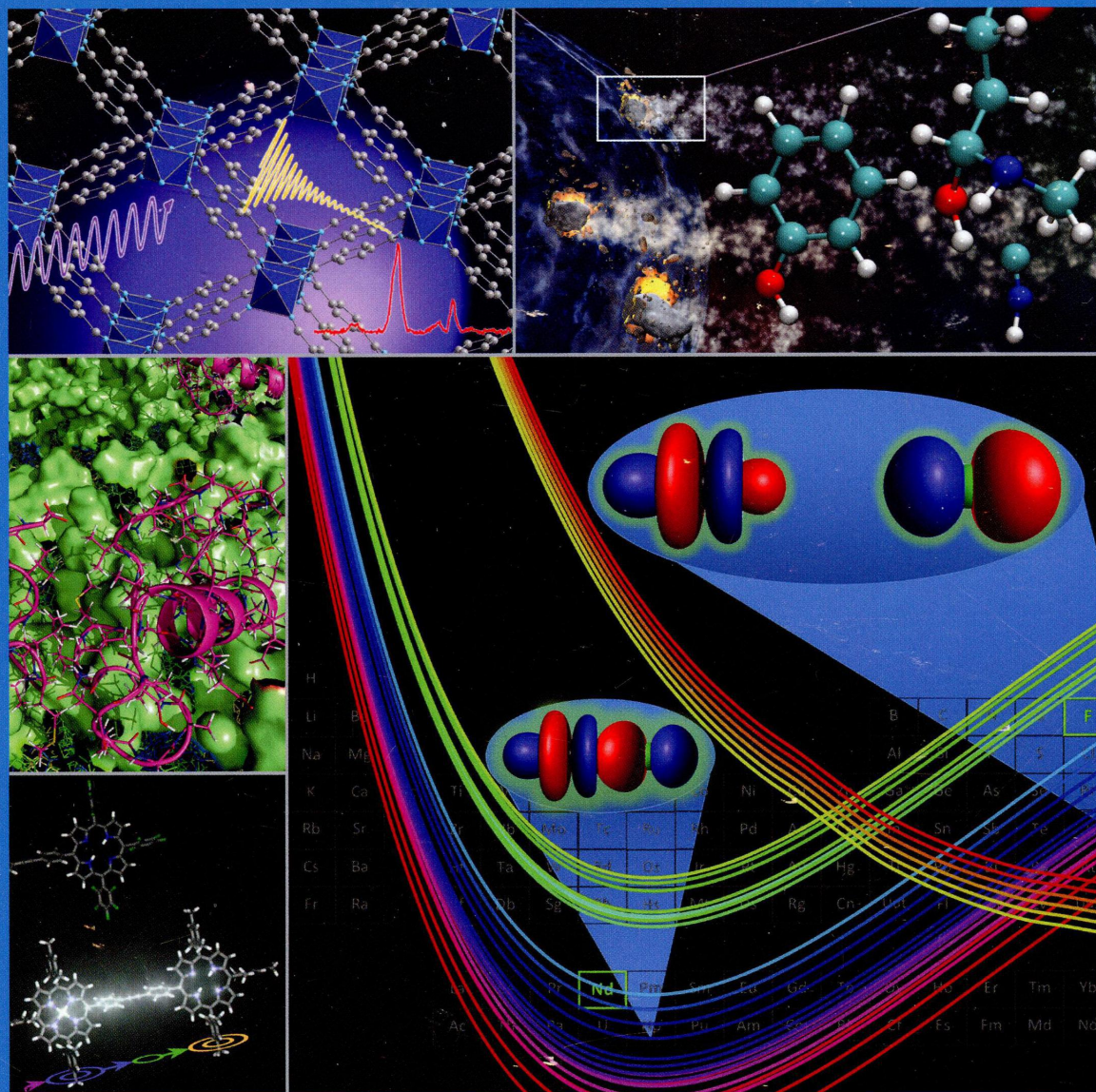
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ISOLATED MOLECULES, CLUSTERS, RADICALS, AND IONS; ENVIRONMENTAL CHEMISTRY,
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ON THE COVER: Collage of cover art from recent issues of *J. Phys. Chem.* Top Left: ^{17}O Solid-State NMR Spectra Provide Signatures of Various Oxygen Species in Metal-Organic Frameworks (*J. Phys. Chem. C* **2013**, *117* (33), 16953–16960). Center Left: Behavior of Amyloid β -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), 5124–5131). 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/jp5055099](https://doi.org/10.1021/jp5055099)**Theoretical Kinetics Studies on the Reaction of $\text{CF}_3\text{CF}=\text{CF}_2$ with Hydroxyl Radical**

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[dx.doi.org/10.1021/jp506659c](https://doi.org/10.1021/jp506659c)**Dynamics and Thermodynamics of Crystalline Polymorphs. 3. γ -Glycine, Analysis of Variable-Temperature Atomic Displacement Parameters, and Comparison of Polymorph Stabilities**

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[dx.doi.org/10.1021/jp506139e](https://doi.org/10.1021/jp506139e)**Compact Non-Rock-Salt Structures in Sodium Fluoride Cluster Ions at Specific Sizes Revealed by Ion Mobility Mass Spectrometry**

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[dx.doi.org/10.1021/jp5075863](https://doi.org/10.1021/jp5075863)**Population-Controlled Impulsive Vibrational Spectroscopy: Background- and Baseline-Free Raman Spectroscopy of Excited Electronic States**


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Cycloreversion Dynamics of a Photochromic Molecular Switch via One-Photon and Sequential Two-Photon Excitation

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