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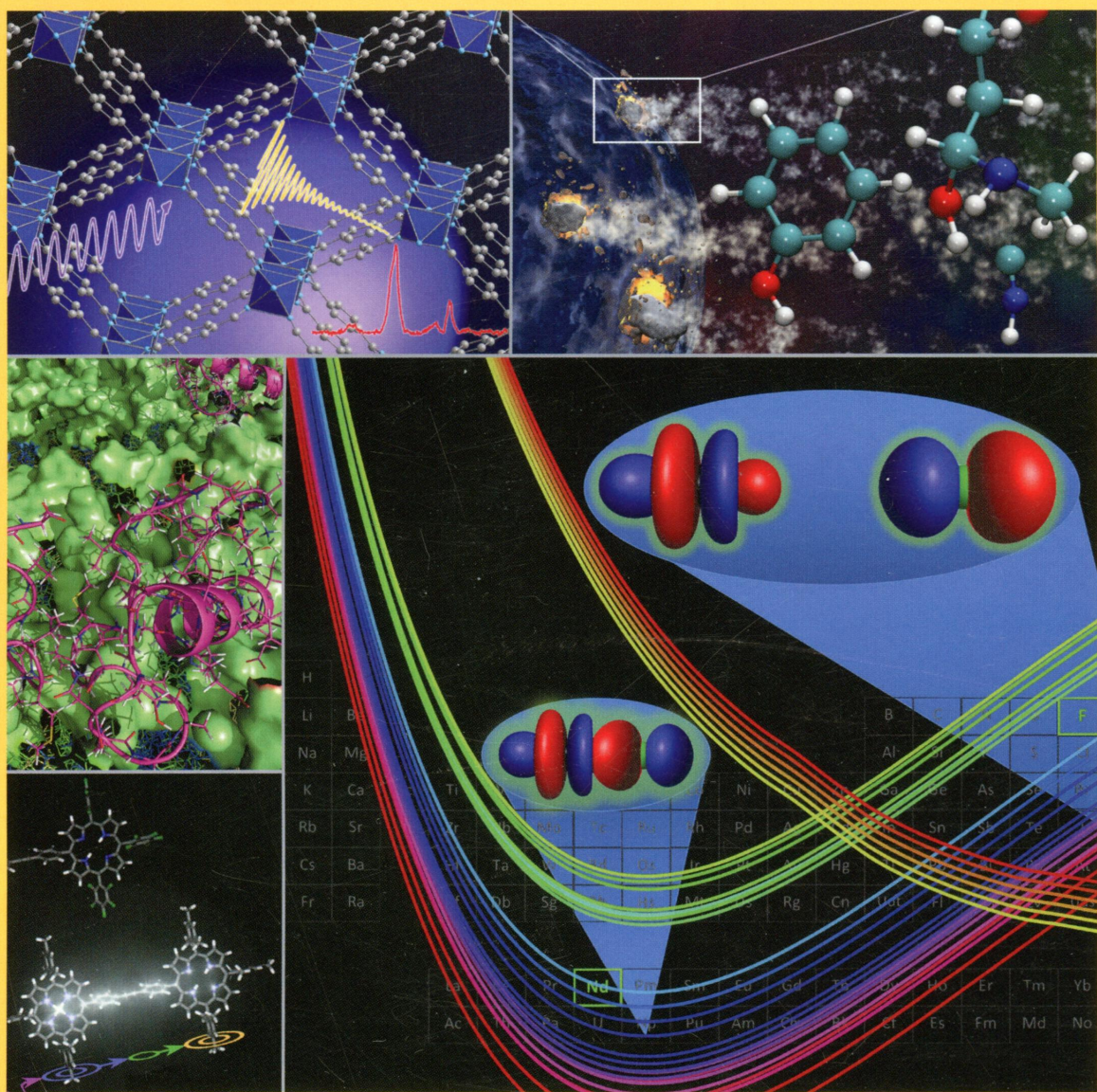
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# THE JOURNAL OF PHYSICAL CHEMISTRY

# B



**BIOPHYSICAL CHEMISTRY, BIOMATERIALS, LIQUIDS, AND SOFT MATTER**



**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), 5124–5131). Bottom Right: Computed Potential Energy Curves for Quartet, Doublet, and Sextet States of  $\text{NdF}^{2+}$  (*J. Phys. Chem. A* **2013**, *117* (42), 10881–10888).

## Articles

### Biophysical Chemistry and Biomolecules

4717  [dx.doi.org/10.1021/jp4099705](https://doi.org/10.1021/jp4099705)

**Automated Structure Refinement for a Protein Heterodimer Complex Using Limited EPR Spectroscopic Data and a Rigid-Body Docking Algorithm: A Three-Dimensional Model for an Ankyrin-CDB3 Complex**

Sarah J. Edwards, Christopher W. Moth, Sunghoon Kim, Suzanne Brandon, Zheng Zhou, Charles E. Cobb, Eric J. Hustedt, Albert H. Beth, Jarrod A. Smith, and Terry P. Lybrand\*

4727  [dx.doi.org/10.1021/jp4122968](https://doi.org/10.1021/jp4122968)

**Conformational Transition of Response Regulator RR468 in a Two-Component System Signal Transduction Process**

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4743 [dx.doi.org/10.1021/jp412528b](https://doi.org/10.1021/jp412528b)

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4753 [dx.doi.org/10.1021/jp500120d](https://doi.org/10.1021/jp500120d)








**Destabilization of i-Motif by Submolar Concentrations of a Monovalent Cation**

Sung Eun Kim, Il-Buem Lee, Changbong Hyeon, and Seok-Cheol Hong\*

4761  [dx.doi.org/10.1021/jp5004825](https://doi.org/10.1021/jp5004825)


**Single Molecule Studies of Force-Induced S2 Site Exposure in the Mammalian Notch Negative Regulatory Domain**

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- 4793  [dx.doi.org/10.1021/jp501272n](https://doi.org/10.1021/jp501272n)  
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- 4851  [dx.doi.org/10.1021/jp502635w](https://doi.org/10.1021/jp502635w)  
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