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JULY 3, 2014

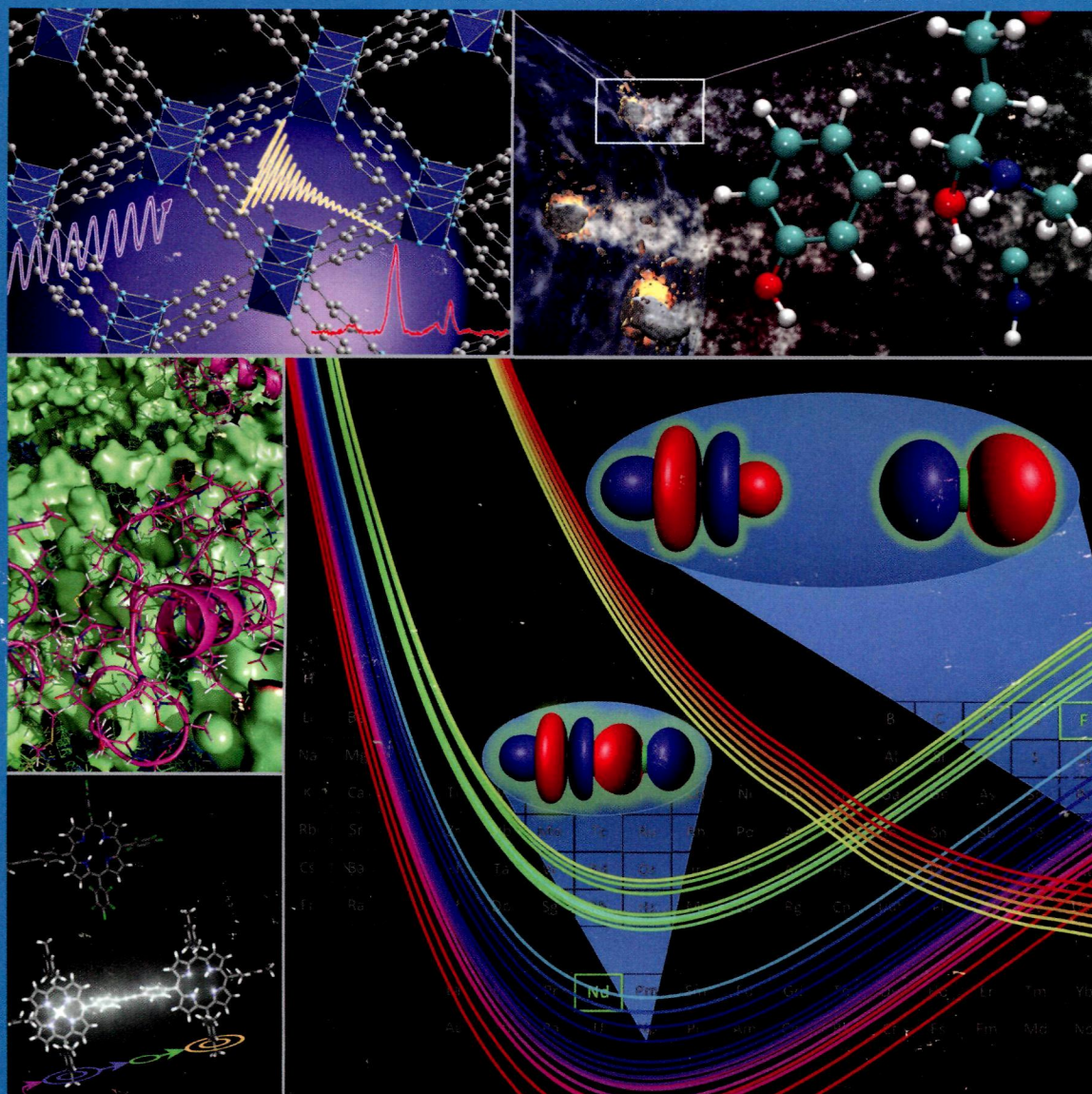
VOLUME 118

NUMBER 26

pubs.acs.org/JPCA

THE JOURNAL OF
PHYSICAL
CHEMISTRY

A




ISOLATED MOLECULES, CLUSTERS, RADICALS, AND IONS; ENVIRONMENTAL CHEMISTRY,
GEOCHEMISTRY, AND ASTROCHEMISTRY; THEORY

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), 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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Coupled 3D Time-Dependent Wave-Packet Approach in Hyperspherical Coordinates: Application to the Adiabatic Singlet-State($1^1A'$) $D^+ + H_2$ Reaction

Tapas Sahoo, Sandip Ghosh, Satrajit Adhikari,* Rahul Sharma, and António J. C. Varandas*

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[dx.doi.org/10.1021/jp503744x](https://doi.org/10.1021/jp503744x)

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[dx.doi.org/10.1021/jp504345g](https://doi.org/10.1021/jp504345g)

Insights on the Origin of the Unusually Large Specific Rotation of (1S,4S)-Norbornenone

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