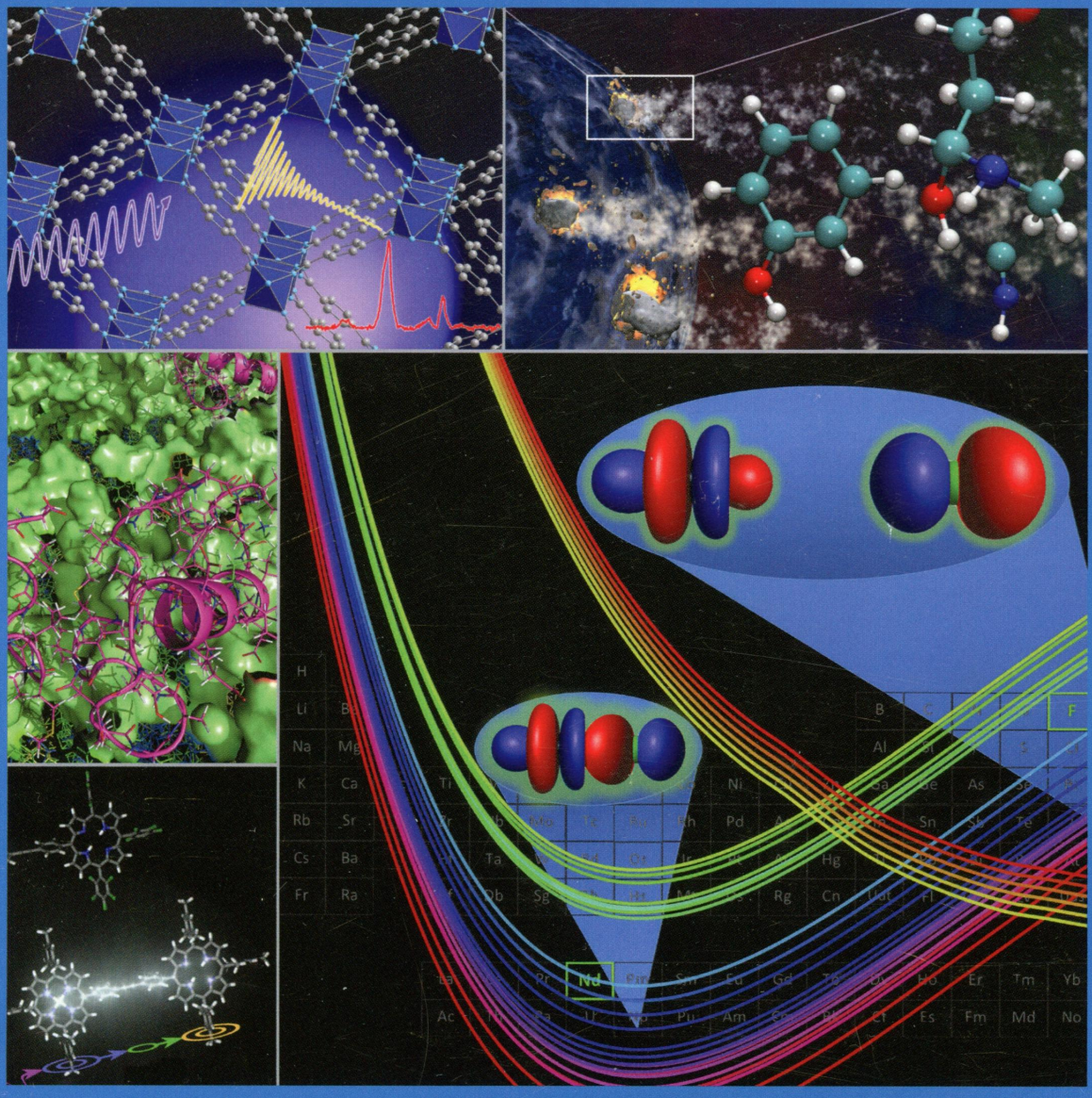
JPCAFH

APRIL 17, 2014
VOLUME 118
NUMBER 15

pubs.acs.org/JPCA

THE JOURNAL OF PHYSICAL CHEMISTRY A



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

ACS Publications
MOST TRUSTED. MOST CITED. MOST READ.

www.acs.org

THE JOURNAL OF
PHYSICAL CHEMISTRY A

APRIL 17, 2014
VOLUME 118 ISSUE 15

JPCAFH 118(15) 2683−2838 (2014)
ISSN 1089-5639

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).

Articles

Kinetics and Dynamics

Spectroscopy, Photochemistry, and Excited States

Environmental and Atmospheric Chemistry, Aerosol Processes, Geochemistry, and Astrochemistry

Molecular Structure, Quantum Chemistry, and General Theory

Additions and Corrections

Supporting Information available via online article