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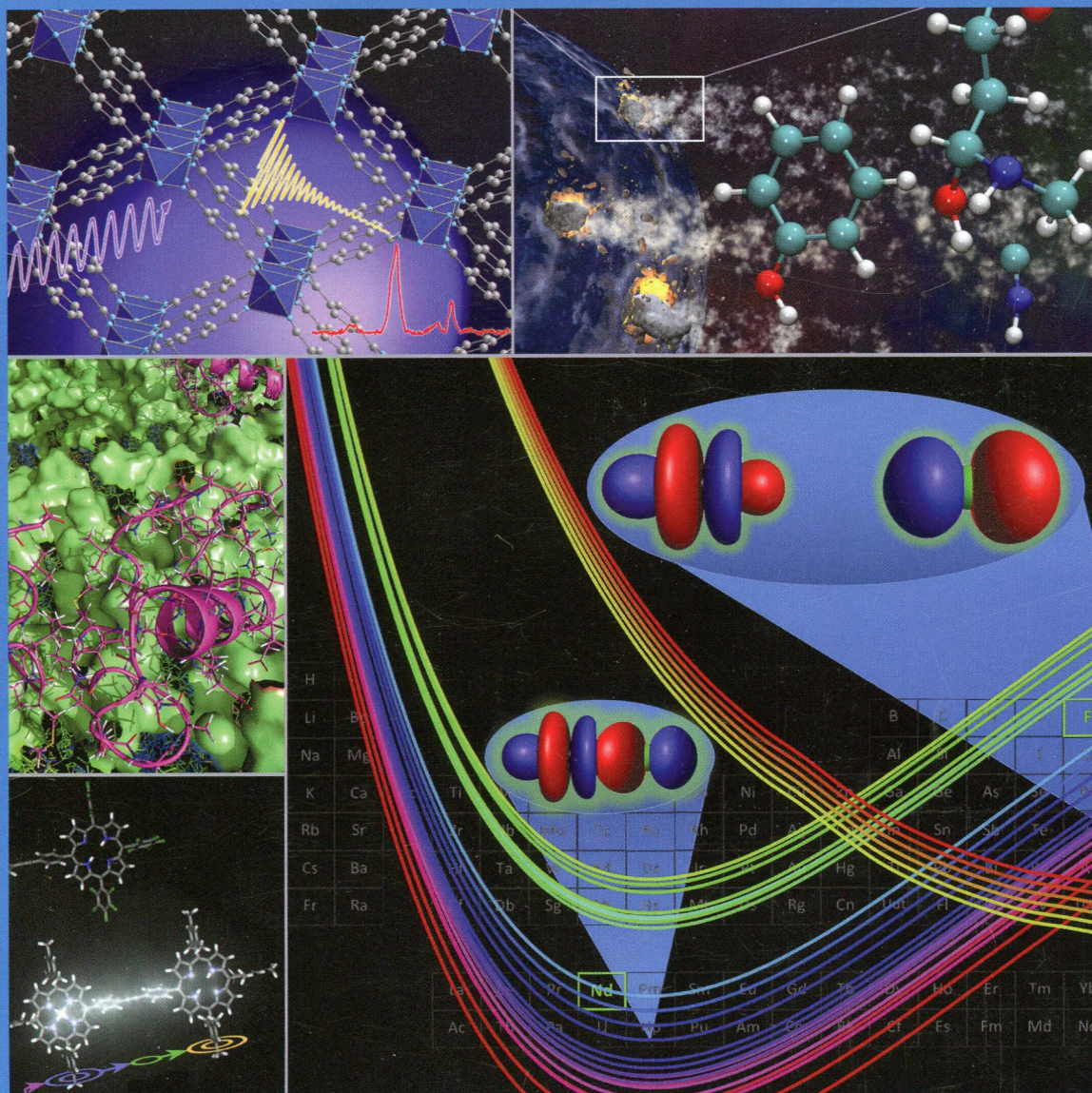
VOLUME 118

NUMBER 11

pubs.acs.org/JPCA

THE JOURNAL OF
PHYSICAL
CHEMISTRY

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Articles

Kinetics and Dynamics

1965  [dx.doi.org/10.1021/jp4106508](https://doi.org/10.1021/jp4106508)

Conformational Preferences of *N,N*-Dimethylsuccinamate as a Function of Alkali and Alkaline Earth Metal Salts: Experimental Studies in DMSO and Water As Determined by ^1H NMR Spectroscopy

Holden W. H. Lai, Albert Tianxiang Liu, Bright U. Emenike, William R. Carroll, and John D. Roberts*

1971 [dx.doi.org/10.1021/jp410789j](https://doi.org/10.1021/jp410789j)

Kinetics of CH_4 and CO_2 Hydrate Dissociation and Gas Bubble Evolution via MD Simulation

M. Uddin* and D. Coombe

1989 [dx.doi.org/10.1021/jp501043z](https://doi.org/10.1021/jp501043z)

Quantum Rate Coefficients and Kinetic Isotope Effect for the Reaction $\text{Cl} + \text{CH}_4 \rightarrow \text{HCl} + \text{CH}_3$ from Ring Polymer Molecular Dynamics

Yongle Li, Yury V. Suleimanov,* William H. Green, and Hua Guo*

1997  [dx.doi.org/10.1021/jp4118985](https://doi.org/10.1021/jp4118985)

Direct Kinetic Measurements of Reactions between the Simplest Criegee Intermediate CH_2OO and Alkenes

Zachary J. Buras, Rehab M. I. Elsamra, Amrit Jalan, Joshua E. Middaugh, and William H. Green*

2007 [dx.doi.org/10.1021/jp4123503](https://doi.org/10.1021/jp4123503)

Parity-Dependent Rotational Energy Transfer in $\text{CN}(\text{A}^2\Pi, \nu = 4, j F_1e) + \text{N}_2, \text{O}_2$, and CO_2 Collisions

Stephen J. McGurk, Joshua B. Halpern, Kenneth G. McKendrick, and Matthew L. Costen*

2018 

[dx.doi.org/10.1021/jp500057x](https://doi.org/10.1021/jp500057x)

Inhibitory Effect of Water on the Oxygen Reduction Catalyzed by Cobalt(II) Tetraphenylporphyrin

Antonín Trojánek, Jan Langmaier, Hana Kvapilová, Stanislav Zális, and Zdeněk Samec*

2029 

[dx.doi.org/10.1021/jp5000705](https://doi.org/10.1021/jp5000705)

Activation of Methane by FeO⁺: Determining Reaction Pathways through Temperature-Dependent Kinetics and Statistical Modeling

Shaun G. Ard, Joshua J. Melko, Vladimir G. Ushakov, Ryan Johnson, Joseph A. Fournier, Nicholas S. Shuman, Hua Guo, Jürgen Troe, and Albert A. Viggiano*

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[dx.doi.org/10.1021/jp5000864](https://doi.org/10.1021/jp5000864)

Rate Coefficients of the Cl + CH₃C(O)OCH₃ → HCl + CH₃C(O)OCH₂ Reaction at Different Temperatures Calculated by Transition-State Theory with *ab Initio* and Density Functional Theory Reaction Paths

Ronald Chow, Maggie Ng, Daniel K. W. Mok, Edmond P. F. Lee,* and John M. Dyke*

Spectroscopy, Photochemistry, and Excited States

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Fast Nonradiative Decay in *o*-Aminophenol


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Vibrational Spectroscopy of Small Hydrated CuOH⁺ Clusters

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[dx.doi.org/10.1021/jp5014863](https://doi.org/10.1021/jp5014863)

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Bernard J. Mason, Jim S. Walker, Jonathan P. Reid, and Andrew J. Orr-Ewing*


Molecular Structure, Quantum Chemistry, and General Theory

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Quantum-Chemical Insight into Structure-Reactivity Relationship in 4,5,6,7-Tetrahalogeno-1*H*-benzimidazoles: A Combined X-ray, DSC, DFT/QTAIM, Hirshfeld Surface-Based, and Molecular Docking Approach

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K. Sahan Thanthiriwatte, Xuefeng Wang, Lester Andrews,* David A. Dixon,* Jens Metzger, Thomas Vent-Schmidt, and Sebastian Riedel

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N. V. Suresh Kumar* and Harjinder Singh

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Andrew J. Wallace and Deborah L. Crittenden*

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Qun-Yan Wu, Jian-Hui Lan, Cong-Zhi Wang, Cheng-Liang Xiao, Yu-Liang Zhao, Yue-Zhou Wei, Zhi-Fang Chai,* and Wei-Qun Shi*

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Dissociation of Gas-Phase Bimetallic Clusters as a Probe of Charge Densities: The Effective Charge of Uranyl

Ana F. Lucena, José M. Carretas, Joaquim Marçalo,* Maria del Carmen Michelini,* Philip X. Rutkowski, and John K. Gibson