

## Publications 2019

Ultrafast Dynamics of Encapsulated Molecules Reveals New Insight on the Photoisomerization Mechanism for Azobenzenes

C. J. Otolski, M. Anthony Raj, V. Ramamurthy, and C. G. Elles, *J. Phys. Chem. Lett.*, **2019**, *10*, 121-127.

Ultrafast Trans→Cis Photoisomerization Dynamics of Alkyl Substituted Stilbenes in a Supramolecular Capsule,

C. J. Otolski, M. Anthony Raj, V. Ramamurthy, and C. G. Elles, *J. Phys. Chem. A* **2019**, *123*, 5061–5071.

Space constrained stereoselective geometric isomerization of 1,2 diphenylcyclopropane and stilbenes in an aqueous medium

A. Mohan Raj, Gaurav Sharma, Rajeev Prabhakar and V. Ramamurthy, *Org. Lett.* **2019**, *21*, 5243–5247.

Modulation of Reduction Potentials of Bis(pyridinium)alkane Dications Through Encapsulation Within Cucurbit[7]uril

N. A. Tcyrulnikov<sup>†</sup>, R. Varadharajan<sup>‡</sup>, A. A. Tikhomirova<sup>‡</sup>, M. Pattabiraman, V. Ramamurthy, and R. M. Wilson, *J. Org. Chem.* **2019**, *84*, 8759–8765.

Visible Light Triggered Selective Intermolecular [2+2] Cycloaddition of Extended Enones: 2-Oxo-3-enoates and 2,4-Dien-1-ones with Olefins

Lei-Min Zhao, Tao Lei, Rong-Zhen Liao, Hongyan Xiao, Bin Chen V. Ramamurthy, Chen-Ho Tung, and Li-Zhu Wu, *J. Org. Chem.* **2019**, *84*, 9257–9269.

Ultrafast solvation dynamics reveal the octa acid capsule's interior dryness depends on the guest  
A. Das, G. Sharma, N. Kamatham, R. Prabhakar, Pratik Sen and V. Ramamurthy, *J. Phys. Chem. A*, **2019**, *123*, 5928–5936.

Supramolecular Photochemistry of Encapsulated Caged *ortho*-Nitrobenzyl Triggers

N. Kamatham, A. Mohan Raj, Richard S. Givens, José P. Da Silva and V. Ramamurthy, *Photochem. Photobiol. Sci.* **2019**, (2019), 18(10), 2411-2420

Reversal of Regioselectivity During Photodimerization of 2-Anthracene carboxylic acid in a water-soluble organic cavitand

X. Wei, A. Mohan Raj, J. Ji, W. Wu, G. Veerakanellore, C. Yang and V. Ramamurthy, *Org. Lett.* **2019**, *21*, 7868-7872

Achiral Zeolites as Reaction Media in Chiral Photochemistry, V. Ramamurthy, *Molecules*, **2019**, *24*, 3570; doi:10.3390/molecules24193570

Xenon Triggers Phosphorescence at Room Temperature from Encapsulated Pyrene

A. Mohan Raj, Gaurav Sharma, Rajeev Prabhakar, and V. Ramamurthy, *J. Phys. Chem. A*,  
**2019**, 123, 9123-9131