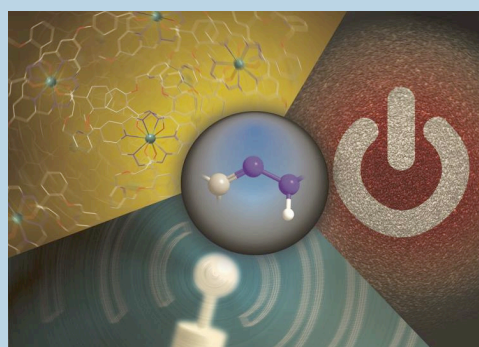


Hydrazone-Based Switches and Fluorophores

Ivan Aprahamian

Department of Chemistry, Dartmouth College, Hanover (NH), USA
ivan.aprahamian@dartmouth.edu, @aprahamian



For the past few years we have been developing structurally simple, easy to make, modular, and tunable hydrazone-based functional materials (e.g., switches, sensors and fluorophores).^{1,2} This presentation will deal with our recent advances with

these systems, with an emphasis on feedback loops,³ fluorescent molecular rotors (viscometers),⁴ and visible and near infrared light activated BF_2 -azo complexes.⁵

1. X. Su, I. Aprahamian *Chem. Soc. Rev.* **2014**, 43, 1963–1981.
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3. S. Pramanik, I. Aprahamian *J. Am. Chem. Soc.* **2016**, 138, 15142–15145.
4. H. Qian, M. E. Cousins, E. H. Horak, A. Wakefield, M. D. Liptak, I. Aprahamian *Nature Chem.* **2017**, 9, 83–87.
5. a) Y. Yang, R. P. Hughes, I. Aprahamian, *J. Am. Chem. Soc.* **2014**, 136, 13190–13193; b) H. Qian, Y.-Y. Wang, D.-S. Guo, I. Aprahamian, *J. Am. Chem. Soc.* **2017**, 139, 1037–1040.

Professor Aprahamian received all his degrees (BSc in 1998, MS in 2000, and PhD in 2005) from the Hebrew University of Jerusalem. He then carried out postdoctoral research in Professor Sir Fraser Stoddart's group at UCLA where he focused on the synthesis of switchable and highly-ordered interlocked molecules in the form of bistable [n] rotaxanes. Dr. Aprahamian joined the faculty at Dartmouth College in August 2008, and was promoted to Associate Professor in 2014. Dr. Aprahamian is the recipient of the 2016 Cram Pederson Lehn Award in Supramolecular Chemistry, and a NSF CAREER award, among other recognitions.

Tuesday 14 February 2017, 14:30

ISOF 12 – Meeting Room (1st floor)

CNR Research Area

Via Gobetti 101, Bologna

