

## S. Hessam Moosavi Mehr

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### RESEARCH INTERESTS

Supramolecular chemistry, structural chemistry, organic reaction development, scientific computation, chemical education

### EDUCATION

**Doctor of Philosophy** Chemistry, *University of British Columbia*, Vancouver, Canada 2011–  
**BSc** Electrical Engineering, *Sharif University of Tech.*, Tehran, Iran (GPA: 16.5/20) 2005–2009

### PUBLICATIONS AND TALKS

- Mehr, S. H. M.; Fukuyama, K.; Bishop, S.; Lelj, F.; MacLachlan, M. J. “Deuteration of Aromatic Rings Under Very Mild Conditions Through Keto-Enamine Tautomeric Amplification” *J. Org. Chem.*, **2015**
- Mehr, S. H. M.; Giese, M.; Qi, H.; Shopsowitz, K.; Hamad, W. Y.; MacLachlan, M. J. “Novel PPV/Mesoporous Organosilica Composites: Influence of the Host Chirality on a Conjugated Polymer Guest” *Langmuir*, **2013**, 29 (40), 12579–12584
- Frischmann, P.D.; Mehr, S. H. M.; Patrick, B. O.; Lelj, F.; MacLachlan, M. J. “Role of Entropy and Autolysis in Dimerization and Complexation of C<sub>60</sub> by Zn<sub>7</sub> Metallocavitands” *Inorganic Chemistry*, **2012**, 51 (6), 3443–3453
- S. H. M. Mehr, S. Khorasani; Influence of asymmetry on the band structure of photonic crystals, *Proceedings of SPIE Photonics West 2010*, San Francisco, USA
- Shahshahani, S. M. “Calculus” (in Persian) <sup>1</sup>, **2008**, Fatemi Publications, Tehran, Iran
- Mehr, S. H. M.; Bahraini, M.] “eXAM: An Distributed Online Examination System” *Proceedings of the 18<sup>th</sup> International Conference on Chemical Education*, **2004**, Turkey

### TEACHING EXPERIENCE

**Shared Instrument Facility (TA)** University of British Columbia, 2012–  
**Chem121/123 (TA)** University of British Columbia, 2011–2012  
**Organic Chemistry** Farzangan High School, 2005–2010  
**Digital Signal Processing Lab (TA)** Sharif Univ. Tech., 2009–2010  
**Chemistry for the IChO** Allameh Helli High School, 2009–2010, 2004–2006  
**Electromagnetics (TA)** Spring 2009, Sharif Univ. Tech.

### COMPUTER SKILLS

**Computational chemistry** Gaussian, Psi4  
**Programming** Python, C, Go HTML/CSS/Javascript  
**Numerical/symbolic computing** MATLAB, SciPy, Mathematica

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<sup>1</sup>(As mathematical illustrator) ISBN: 978-964-318456-8

## LANGUAGES

**Farsi** Native

**English** Near native

**French, Italian** Fair

**Japanese** Basic