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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

- 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**¹
- 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 Autosolvation in Dimerization and Complexation of C₆₀ by Zn₇ 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)², **2008**, Fatemi Publications, Tehran, Iran
- Mehr, S. H. M.; Bahraini, M.] "eXAM: An Distributed Online Examination System" *Proceedings of the 18th 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

¹In press

²(As mathematical illustrator) ISBN: 978-964-318456-8

Languages

- Farsi** Native
- English** Near native
- French, Italian** Fair
- Japanese** Basic