SEYHAN SALMAN

Department Head
Genetics and Bioengineering
Istanbul Bilgi University
Eyup 34360 Istanbul Turkey
Phone: +90 212 311 7429
E-mail: seyhan.salman@bilgi.edu.tr
ResearcherID:http://www.researcherid.com/rid/F-3154-2015

Field of Research

Quantum Chemistry, Conducting polymers, Organic semiconductors, Density Functional Theory, Charge-transport, Electroluminescence, Organometallic complexes, Donor-Acceptor compounds, OLEDs, photovoltaics, OFETs, biosensors.

Professional Experience

Assistant Professor, Istanbul Bilgi University, Faculty of Engineering and Natural Sciences, 2011 – current.
Postdoctoral Fellow, University of Bordeaux I, Institute of Molecular Sciences, France, 2009 – 2010.
Research Assistant, Georgia Institute of Technology, USA, 2005-2009.
Teaching Assistant, Georgia Institute of Technology, USA, 2004-2005.
Research Assistant, Bosphorus University, Istanbul, 2003-2004.
Visiting Research Scholar, University of Mons, Laboratory for Chemistry of Novel Materials, Belgium, 2008

Education

Georgia Institute of Technology, School of Chemistry and Biochemistry
Ph.D., Chemistry, 2009
Dissertation: Theoretical Characterization of the Charge-Transport and Electroluminescence Properties of Pi-Conjugated Organic Materials
Advisor: Dr. Jean-Luc Brédas

Boğaziçi University, Institute of Science
M.S., Chemistry, 2004
Thesis: Modeling the Reactivity of Nonphosphorus and Phosphorus-Containing Acrylates
Advisor: Dr. Viktorya Aviyente

Boğaziçi University, Faculty of Arts and Sciences
B.S., Chemistry (*with Honors*), 2002

Selected Publications

1. S. Salman, J. L. Brédas, S. R. Marder, V. Coropceanu, S. Barlow, "Dipolar Ferrocene and Ruthenocene Second-Order Nonlinear Optical Chromophores: A Time-Dependent Density Functional Theory Investigation of their Absorption Spectra" Organometallics, 32, 6061-6068, 2013.

2. S. Salman, D. Kim, V. Coropceanu, and J. L. Brédas, "Theoretical investigation of triscarbazole derivatives as host materials for blue electrophosphorescence: Effects of topology" Chem. Mater. 23, 5223-5230, 2011.

3. D. Kim, S. Salman, V. Coropceanu, E. Salomon, A. Padmaperuma, L. Sapochak, A. Kahn, and J. L. Brédas, "Phosphine Oxide Derivatives as Hosts for Blue Phosphors: A Joint Theoretical and Experimental Study of Their Electronic Structure" Chem. Mater. 22, 247–254, 2010.

4. S. Salman, M. C. Ruiz Delgado, V. Coropceanu, and J. L. Brédas, "Electronic Structure and Charge-Transport Parameters of Functionalized Tetracene Crystals: Impact of Partial Fluorination and Alkyl or Alkoxy Derivatization" Chem. Mater. 21 (15), 3593–3601, 2009.

5. E. F. Valeev, V. Coropceanu, D. A. da Silva Filho, S. Salman and J. L. Brédas, "Effect of Electronic Polarization on Charge-Transport Parameters in Molecular Organic Semiconductors" J. Am. Chem. Soc. 128, 9882-9886, 2006.

Total Articles: 11, Sum of the Times Cited: 464, h-index: 9