

## ALLAN J. JACOBSON

Director Emeritus, TcSUH

Texas Center for Superconductivity  
University of Houston Science Center  
Houston, TX 77204-5002  
Office Phone 713-743-2786

Departmental Address  
Houston, TX 77204-5003  
Office Phone: 32785  
Office Fax: 32787  
E-mail: [ajjacob@uh.edu](mailto:ajjacob@uh.edu)

### Education:

|      |             |         |             |  |
|------|-------------|---------|-------------|--|
| Date | 1966 Degree | B.A.    | Institution | St. Catherine's College, Oxford                              |
| Date | 1969 Degree | M.A.    | Institution | New College, Oxford  |
| Date | 1969 Degree | D.Phil. | Institution | New College, Oxford      Thesis Advisor: Sir B. E. F. Fender |

### Employment History:

|              |   |
|--------------|---|
| 09/2018      | Director Emeritus, Texas Center for Superconductivity at the University of Houston  |
| 2005-2017    | Director, Texas Center for Superconductivity, University of Houston   |
| 2002-2006    | Director, Center for Materials Chemistry, University of Houston   |
| 1991-present | Robert A. Welch Chair of Science, Professor of Chemistry and Chemical Engineering, University of Houston                  |
| 1997-2002    | Director, NSF Materials Research Science and Engineering Center, University of Houston                                    |
| 2001-2002    | Interim Director, Texas Center for Superconductivity, University of Houston   |
| 1992-2001    | Associate Director, Texas Center for Superconductivity, University of Houston   |
| 1976-1991    | Senior Research Associate, Corporate Research Laboratories, Exxon Research and Engineering Company, Annandale, New Jersey |
| 1970-1976    | Fellow and Tutor in Chemistry, Keble College, Oxford  |
| 1970-1976    | Departmental Demonstrator in Inorganic Chemistry, Oxford University   |

### Honors and Awards:

- Sigma Xi Research Faculty Award, University of Houston
- Research Excellence Award, University of Houston
- Esther Farfel Award, University of Houston
- Fellow of the National Academy of Inventors

### Recent Research Highlights:

- Discovery of high ambipolar conductivity of A site ordered perovskite oxides
- Synthesis and intercalation behavior of porous materials

### Five Relevant Publications:

1. "Determination of Oxygen Nonstoichiometry in  $\text{SrFeO}_{3-x}$  by Solid-State Coulometric Titration," J. Yoo, C.-Y. Yoo, J.-H. Yu and A. J. Jacobson, *J. Am. Ceram. Soc.* 2017, 100(6), 2690-2699.
2. "Photoinduced Strain Release and Phase Transition Dynamics of Solid-Supported Ultrathin Vanadium Dioxide," X. He, N. Punpongjareorn, W. Liang, Y. Lin, C. Chen, A. J. Jacobson & D.-S. Yang, *Scientific Reports* 2017, 7(1), 10045.
3. "1D Nickel Coordination Polymers with an Unnatural Amino Acid Prepared by in situ Double Michael Addition of Ethylenediamine to (E,E)-Muconic Acid," J. Do, J. Kang, Y. Jung, Y. S. Park, and A. J. Jacobson, *Bull. Korean Chem. Soc.* 2017, 38, 1507-1510.
4. "Dissecting Porosity in Molecular Crystals: Influence of Geometry, Hydrogen Bonding, and  $\pi\cdots\pi$  Stacking on the Solid-State Packing of Fluorinated Aromatics," M. I. Hashim, Ha T. M. Le, T.-H. Chen, Y.-S. Chen, O. Daugulis, C.-W. Hsu, A. J. Jacobson, W. a Kaveevivitchai, X. Liang, T. Makarenko, O. Š. Miljanić, I. Popovs, H. Vu Tran, X. Wang, C.-H. Wu, and J. I. Wu, *J. Am. Chem. Soc.* 2018, 140, 6014-6026.
5. "Synthesis and Single Crystal Structures of  $\text{V}(\text{OH})_{\text{ndc}}\cdot\text{H}_2\text{O}$ ,  $\text{V}(\text{OH})_{\text{ndc}}$ , and  $\text{VO}_{\text{ndc}}$ ," X. Wang, P. Samarasekera, A. J. Jacobson, *Microporous and Mesoporous Materials* 2018, 267, 20-23.