

## **MD Sheida Farajı**

### **Personal Information**

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### **International Researcher IDs**

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### **Education Information**

Doctorate, The University of Manchester, Science and engineering , Electrical and electronic engineering , England 2010 - 2014

Postgraduate, The University of Manchester, Science and engineering , Materials Science , England 2008 - 2009

Postgraduate, The University of Manchester, Science and engineering , Electrical and electronic engineering , England 2006 - 2007

Undergraduate, Manchester Institute of Science and Technology, Science and engineering , Electrical and electronic engineering , England 2004 - 2006

Undergraduate, Shiraz University, Science and engineering , Computer engineering , Iran 1999 - 2002

### **Research Areas**

Engineering and Technology

### **Academic Titles / Tasks**

Lecturer PhD, The University of Manchester, Science and engineering , Electrical and electronic engineering , 2020 - Continues

Research Assistant PhD, Istanbul Technical University, Makina, Makina Mühendisliği, 2020 - Continues

Lecturer, University of Sheffield, Engineering , Multidisciplinary Engineering Education (MEE), 2018 - 2019

Research Assistant PhD, The University of Manchester, Science and engineering, Electrical and electronic engineering , 2014 - 2019

### **Published journal articles indexed by SCI, SSCI, and AHCI**

#### **I. Synthesis and characterization of naphthalenediimide-thienothiophene-conjugated polymers for OFET and OPT applications**

Gunturkun D., Isci R., Faraji S., Sütay B., Majewski L. A., Öztürk T.

Journal of Materials Chemistry C, vol.11, no.38, pp.13129-13141, 2023 (SCI-Expanded)

#### **II. Khaya gum – a natural and eco-friendly biopolymer dielectric for low-cost organic field-effect transistors (OFETs)**

- Tall A., Faraji S., Diallo A. K., Mohammadian N., Erouel M., Seck M., Saadi M., Khirouni K., Majewski L. A.  
 Journal of Materials Science: Materials in Electronics, vol.33, no.19, pp.15283-15295, 2022 (SCI-Expanded)
- III. Copolymers of 3-arylthieno[3,2-b]thiophenes bearing different substituents: Synthesis, electronic, optical, sensor and memory properties**  
 Gunturkun D., Isci R., Sütay B., Majewski L. A., Faraji S., Öztürk T.  
 European Polymer Journal, vol.170, 2022 (SCI-Expanded)
- IV. A Review on Solution-Processed Organic Phototransistors and Their Recent Developments**  
 Tavasli A., Gurunlu B., Gunturkun D., Isci R., Faraji S.  
 ELECTRONICS, vol.11, no.3, 2022 (SCI-Expanded)
- V. Low voltage organic transistors with water-processed gum arabic dielectric**  
 Seck M., Mohammadian N., Diallo A. K., Faraji S., Saadi M., Erouel M., Ly E. H. B., Khirouni K., Majewski L. A.  
 Synthetic Metals, vol.267, 2020 (SCI-Expanded)
- VI. Organic FETs using biodegradable almond gum as gate dielectric: A promising way towards green electronics**  
 Seck M., Mohammadian N., Diallo A. K., Faraji S., Erouel M., Bouguila N., Ndiaye D., Khirouni K., Majewski L. A.  
 Organic Electronics, vol.83, 2020 (SCI-Expanded)
- VII. Robust High-Capacitance Polymer Gate Dielectrics for Stable Low-Voltage Organic Field-Effect Transistor Sensors**  
 Rahmanudin A., Tate D. J., Marcial-Hernandez R., Bull N., Garlapati S. K., Zamhuri A., Khan R. U., Faraji S., Gollu S. R., Persaud K. C., et al.  
 Advanced Electronic Materials, vol.6, no.3, 2020 (SCI-Expanded)
- VIII. One-volt, solution-processed organic transistors with self-assembled monolayer-Ta<sub>2</sub>O<sub>5</sub> gate dielectrics**  
 Mohammadian N., Faraji S., Sagar S., Das B. C., Turner M. L., Majewski L. A.  
 Materials, vol.12, no.16, 2019 (SCI-Expanded)
- IX. Porous, Aligned, and Biomimetic Fibers of Regenerated Silk Fibroin Produced by Solution Blow Spinning**  
 Magaz A., Roberts A. D., Faraji S., Nascimento T. R. L., Medeiros E. S., Zhang W., Greenhalgh R. D., Mautner A., Li X., Blaker J. J.  
 Biomacromolecules, vol.19, no.12, pp.4542-4553, 2018 (SCI-Expanded)
- X. Cyanoethyl cellulose-based nanocomposite dielectric for low-voltage, solution-processed organic field-effect transistors (OFETs)**  
 Faraji S., Danesh E., Tate D. J., Turner M. L., Majewski L. A.  
 Journal of Physics D: Applied Physics, vol.49, no.18, 2016 (SCI-Expanded)
- XI. Solution-processed nanocomposite dielectrics for low voltage operated OFETs**  
 Faraji S., Hashimoto T., Turner M. L., Majewski L. A.  
 Organic Electronics, vol.17, pp.178-183, 2015 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. Detection of Volatile Organic Compounds Using Solution Processed Organic Field-Effect Transistors**  
 Garlapati S. K., Faraji S., Tate D., Rahmanudin A., Valliappan P., Patti A., Persaud K., Turner M.  
 6th Conference on Microactuators, Microsensors and Micromechanisms, MAMM 2022, Hyderabad, India, 2 - 04 December 2022, vol.126, pp.310-322
- II. Fully solution processed low voltage OFET platform for vapour sensing applications**  
 Tate D. J., Danesh E., Tischler V., Faraji S., Majewski L. A., Turner M. L., Persaud K. C.  
 2017 ISOCS/IEEE International Symposium on Olfaction and Electronic Nose, ISOEN 2017, Montreal, Canada, 28 - 31 May 2017
- III. Low-voltage printable OFETs for sub-ppm detection of ammonia under humid conditions**  
 Danesh E., Tate D., Faraji S., Persaud K., Majewski L., Yeates S., Turner M.

## Supported Projects

Trabzon L., Tavashi A., Farajı S., Project Supported by Higher Education Institutions, Düşük güçle çalışan invazif olmayan optik temelli evde kullanıma uygun sağlık ve hava kalitesi takibi yapabilen sensör, 2023 - Continues  
Farajı S., Ozturk T., Trabzon L., ÇELİK İ., TUBITAK Project, Low-power, non-invasive conformable optical-based sensorsfor home-assisted health and air quality monitoring, 2020 - 2023

## Metrics

Publication: 16

Citation (Scopus): 284

H-Index (Scopus): 9

## Non Academic Experience

Business Establishment Private, Arcelik, R&D