

Curriculum Vitae

Akram Noori Sadeq Al-Shadeedi

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EDUCATION

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| PhD in Physics
Kent State University | May 2017 |
| MA in Physics
Kent State University | May 2014 |
| MS in Physics
University of Baghdad | May 2009 |
| BA in Physics
University of Baghdad | May 2006 |

TEACHING

Instructor

Department of Physics, University of Bagdad

- Taught a math course for 3rd stage physics students
- Taught a general physics for non-physics students
- Taught an English course for postgraduate students
- Taught a math course for 2nd stage chemistry students

RESEARCH EXPERIENCE

Doctoral Researcher **2013-2017**

Department of Physics, College of Art and Sciences, University of Baghdad

- Working on Organic Electronics and semiconductors filed.

Research Assistant **2013-2017**

Department of Physics, Kent State University

- Assistant to Professor Björn Lüssem, conducting primary and secondary source research.
- Improved the characteristics of organic vertical transistors and got a patent.

PUBLICATIONS

- Kaphle, V., Liu, S., Al-Shadeedi, A., Keum, C.M. and Lüssem, B., 2016. "Contact Resistance Effects in Highly Doped Organic Electrochemical Transistors". *Advanced Materials*, 28(39), pp.8766-8770.
- Keum, C.M., Liu, S., Al-Shadeedi, A., Kaphle, V., Bunge, S.D. and Lüssem, B., 2016. "Charge trapping in doped organic Zener diodes" *Organic Electronics*, 39, pp.77-84.
- Keum, C., Liu, S., Al-Shadeedi, A., Kaphle, V. and Lüssem, B., 2016, September. "Quantifying charge trapping and molecular doping in organic pin diodes" In *SPIE Organic Photonics + Electronics* (pp. 994122-994122). International Society for Optics and Photonics.
- Al-Shadeedi, A., Liu, S., Keum, C.M., Kasemann, D., HoBbach, C., Bartha, J., Bunge, S.D. and Lüssem, B., 2016. "Minority Currents in n-Doped Organic Transistors" *ACS Applied Materials & Interfaces*, 8(47), pp.32432-32439.
- Keum, Chang-Min, et al. "Tuning charge carrier transport and optical birefringence in liquid-crystalline thin films: A new design space for organic light-emitting diodes." *Scientific reports* 8.1 (2018): 699.
- Kaphle, Vikash, et al. "Contact resistance effects in highly doped organic electrochemical transistors." *Advanced Materials* 28.39 (2016): 8766-8770.
- Liu, S., Al-Shadeedi, A., Kaphle, V. and Keum, C.M. and Lüssem, B. 2017. "Patterning organic transistors by dry-etching: The double layer lithography" *Organic Electronics*, 45, pp. 124-130.

CONFERENCE PRESENTATIONS

- Al-Shadeedi, A., Liu, S., Bunge, S.D. and Lüssem, B., "Doped Ambipolar Organic Field-Effect Transistors", 2015 Annual Spring Meeting of the APS Ohio-Region Section 2015, Poster.
- Al-Shadeedi, A., Liu, S., Bunge, S.D. and Lüssem, B., "Doped Ambipolar Organic Field-Effect Transistors", Summer School in Organic Electronics, Case Western Reserve University 2015, Talk.
- Al-Shadeedi, A., Liu, S., Bunge, S.D. and Lüssem, B., "Doped Ambipolar Organic Field-Effect Transistors", MRS Spring Meeting, Phoenix 2016, Poster.
- Doped Organic Transistors-Increased Stability and Reproducibility for Active Matrix Displays, Talk.
- Vertical Organic Tunnel Field-Effect Transistor, poster.

PATENTS

- "Increasing Amplification of Organic Permeable Base Transistors by Self-Assembled Monolayers"

LANGUAGES

- Arabic speaking and writing
- English speaking and writing