

## Ahmed Abutaleb

### 1. Education

PhD in Chemical Engineering, The University of Akron, Akron, Ohio, USA (2015)

### 2. Academic experience

Jazan University, Associate Professor, 2016- present.

### 3. Non-academic experience

### 4. Certifications or professional registrations

### 5. Current membership in professional organizations

Member of Saudi Engineering council.

### 6. Honors and awards

None

### 7. Service activities

- Vice dean for academic affairs, College of Engineering, Jazan University, (09-2016)-(02-2018).
- Dean, College of Engineering, Jazan University, (02-2018)-(now).

### 8. Briefly list the most important publications

#### - JOURNAL PAPERS

- o D. Lolla, M. Lolla, A. Abutaleb, H. U. Shin, D. H. Reneker, and G. G. Chase, "Fabrication, polarization of electrospun polyvinylidene fluoride electret fibers and effect on capturing nanoscale solid aerosols," *Materials (Basel)*, vol. 9, no. 8, pp. 9–11, 2016.
- o M. Al-Enizi, R. M. Brooks, A. Abutaleb, M. M. El-Halwany, M. H. El-Newehy, and A. Yousef, "Electrospun carbon nanofibers containing Co-TiC nanoparticles-like superficial protrusions as a catalyst for H<sub>2</sub> gas production from ammonia borane complex," *Ceram. Int.*, vol. 43, no. 17, pp. 15735–15742, 2017.
- o Yousef, R. M. Brooks, M. M. El-Halwany, A. Abutaleb, M. H. El-Newehy, S. S. Al-Deyab, and H. Y. Kim, "Electrospun CoCr<sub>7</sub>C<sub>3</sub>-supported C nanofibers: Effective, durable, and chemically stable catalyst for H<sub>2</sub> gas generation from ammonia borane," *Mol. Catal.*, vol. 434, pp. 32–38, 2017.
- o Yousef, R. M. Brooks, A. Abutaleb, M. H. El-Newehy, S. S. Al-Deyab, and H. Y. Kim, "One-step synthesis of Co-TiC-carbon composite nanofibers at low temperature," *Ceram. Int.*, vol. 43, no. 7, pp. 5828–5831, 2017.
- o Abutaleb, D. Lolla, A. Aljuhani, H. Shin, J. Rajala, and G. Chase, "Effects of Surfactants on the Morphology and Properties of Electrospun Polyetherimide Fibers," *Fibers*, vol. 5, no. 3, p. 33, 2017.
- o H. U. Shin, A. Abutaleb, D. Lolla, and G. G. Chase, "Effect of Calcination Temperature on NO–CO Decomposition by Pd Catalyst Nanoparticles Supported on Alumina Nanofibers," *Fibers*, vol. 5, no. 1, pp. 1–14, 2017.
- o Aljuhani, D. Lolla, A. Abutaleb and G. G. Chase "Coating Gradient Effect on Contact Angle in Electrowetting," *Am J Phys Appl*, vol. 5, no. 4, pp. 70–76, 2018.

- Yousef, R.M. Brooks, A. Abutaleb, S.S. Al-Deyab and M.H. El-Newehy“Low Temperature Synthesis of Cobalt–Chromium Carbide Nanoparticles-Doped Carbon Nanofibers,” *J. Nanosci. Nanotechnol.*, vol. 17, no. 4, pp. 1983–2942, 2018.
- Abutaleb, “Effect of the mixture of mineral/sunflower oil based ferrofluid on thermal and flow properties,” *Mater. Res. Express*, vol. 6, no. 4, 2019.
- Abutaleb, “Electrochemical Oxidation of Urea on NiCu Alloy Nanoparticles Decorated Carbon Nanofibers,” *Catalysts*, vol. 9, pp. 1–12, 2019.
- Abutaleb, D. Lolla, A. Aljuhani, H. Shin, M. Ali, A. Yousef Hassan, I. Maafa, and G. Chase, “Liquid Phase Selective Hydrogenation of Phenol to Cyclohexanone over Electrospun Pd/PVDF-HFP Catalyst,” *Fibers*, vol. 7, no. 4, p. 1-11, 2019.
- M. A. Ali, N. A. Al-Baghli, M. Nisar, Z. O. Malaibari, A. Abutaleb, and S. Ahmed, “Selective Production of Propylene from Methanol over Monolith Supported Modified ZSM-5 Catalysts,” *Energy Fuels*, vol. 33, no. 2, pp. 1458–1466, 2019.
- Abutaleb, “Comparative Study of Graphene Oxide and Activated Carbon Synthesized from Sunflowers Seed Shells for Efficient Hazardous Dye Adsorption from Wastewater,” *Aljouf Uni. Sci. & Eng. J.(AUSEJ)*, Accepted, 2019.
- M. Al-Enizi, A. Nafady, M. M. El-Halwany, R. M. Brooks, A. Abutaleb and A. Yousef, “Electrospun Carbon Nanofiber-Encapsulated NiS Nanoparticles as an Efficient Catalyst for Hydrogen Production from Hydrolysis of Sodium Borohydride,” *Int. J. Of Hydrogen Energy*, Accepted, 2019.
- M. A. Ali, S. Ahmed, N. A. Al-Baghli, Z. O. Malaibari, A. Abutaleb, and A. Yousef, “A comprehensive review covering conventional and structured catalysis for methanol to propylene conversion,” *Catlysis Letters*, Accepted, 2019.
- D. Lolla, A. Abutaleb, Marjan A. Kashfipour and George G. Chase“Polarized Catalytic Polymer Nanofibers,” *Materials (Basel).*, vol. 12, pp. 2859, 2019.
- PATENTS
  - G. G. Chase, D. Lolla and A. Abutaleb, “Polarized Fiber Mats for Catalyst Support Structures” U.S. Patent No. 20190076825A1.
  - G. G. Chase, A. Abutaleb, D. Lolla and, “Novel Membrane Reactor Design for Multiphase Reaction incorporating Electrospun Nanofibers” Submitted to the US patent office.
- CONFERENCES
  - Ahmed Abutaleb and George Chase (November 2015), Conversion of Phenol to Cyclohexanone Using Pd/PEI Nanofiber Catalysts Prepared by Electrospinning and Wet Impregnation, Poster Presentation at the AIChE Conference.
  - Ahmed Abutaleb and George Chase (October 2015), Conversion of Phenol to Cyclohexanone Using Pd/PEI Nanofiber Catalysts Prepared by Electrospinning and Wet Impregnation, Oral and Poster Presentation at The Coalescence Filtration Nanofiber Consortium.
  - Ahmed Abutaleb and George Chase (May 2015), Conversion of Phenol to Cyclohexanone Using Superhydrophobic Pd/PVDF-HFP Nanofiber Catalysts

Prepared by Electrospinning, Oral and Poster Presentation at The Coalescence Filtration Nanofiber Consortium.

- Ahmed Abutaleb and George Chase (October 2014) Conversion of Phenol to Cyclohexanone Using Platinum Supported on Polymeric Polyetherimide Nanofiber Catalysts prepared by Electrospinning and Wet Impregnation, Oral and Poster Presentation at The Coalescence Filtration Nanofiber Consortium.
- Ahmed Abutaleb, George Chase, Steven Chuang, and Zhenmengt Peng (August 2014) Electrospun Polymer Fiber Mats for Adsorption of Methane, Oral and Poster Presentation at Ohio Conference on the Sustainable Use of Greenhouse Gases.
- Ahmed Abutaleb and George Chase (May 2014) Preparation and Characterization of Palladium Nanoparticles Supported On Electrospun Polymeric Polyetherimide (Pd/PEI) Catalysts, Poster Presentation at The Coalescence Filtration Nanofiber Consortium.
- Ahmed Abutaleb and George Chase (May 2013) Preparation and Characterization of Palladium Nanoparticles Supported On Electrospun Ceramic Aluminum Oxide (Pd/Al<sub>2</sub>O<sub>3</sub>) Catalysts, Poster Presentation at The Coalescence Filtration Nanofiber Consortium.
- Ahmed Abutaleb and George Chase (October 2012) Construction of A Flow Reactor for Hydrogenation of Phenol to Cyclohexanone Using Electrospun Nanofiber Catalysts, Poster Presentation at The Coalescence Filtration Nanofiber Consortium.
- Attending the Euro Chemical Engineering conference, October 2018.
- Attending the Gulf Engineering Forum conference, March 2019.

**9. Briefly list the most recent professional development activities**

None