Curriculum vitae

Name: Zahraa Fadhil Zuhwar Al-Auda

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Education:

Ph.D., Chemical Engineering, Kansas state University, USA
M.S., Chemical Engineering, the University of Technology, Iraq
B.S., Chemical Engineering, the University of Technology, Iraq

Research interests:

Reaction Engineering and Catalysis

Publications:

1. Zahraa Al-Auda, Hayder Al-Atabi, Xu Li, Quanxing Zheng, Keith L. Hohn. “Conversion of methyl ethyl ketone to butenes over bifunctional catalysts.”

2. Zahraa Al-Auda, Hayder Al-Atabi and Keith L. Hohn. “Metals on ZrO_2: Catalysts for the Aldol Condensation of Methyl Ethyl Ketone (MEK) to C_8 Ketones.”

3. Zahraa Al-Auda, Hayder Al-Atabi, Xu Li, Prem Thapa and Keith Hohn. “Conversion of 5-Methyl-3-Heptanone to C_8 Alkenes and Alkane over Bifunctional Catalysts.”

4. Hayder A. Al Atabi, Zahraa F. Al Auda, B. Padavala, M. Craig, K. Hohn, and James H. Edgar. “Sublimation Growth and Characterization of Erbium Nitride Crystals.”

5. Zahraa F. Zuhwar. “The Control of Non-Isothermal CSTR Using Different Controller Strategies.”

6. Karima Putrus, Zahraa Al-Auda. “Adaptive control of a pH process.”

7. Saffa al.Naami, Karima M. Putrus, Zahraa F. Zuhwar. “Modeling and Control of a Continuous Stirred Tank Reactor (CSTR).”

8. Karima Putrus, Zahraa Al-Auda. “Controlling the pH Neutralization Process Strategies.”

9. Zahraa F. Zuhwar, Zaidoon M. Shakoor. “Control of Neutralization Process for Change over Titration Curve Using Model of Strong Base-Weak Acid System.”

Patents:

1. Inventors: Z. Alauda, K.L. Hohn. “Catalysts and Methods for Converting Methyl Ethyl Ketone to Butene.”

Conferences

1. K.L. Hohn, Z. Alauda, Q. Zheng, “Controlling product selectivity in the conversion 2,3-butanediol to valuable products”, ACS Midwest Regional Meeting, Lawrence, KS, Oct. 18-20, 2018.

2. Z. Alauda, H. Alatabi, Q. Zheng, and K.L. Hohn, “Catalysts for Conversion of Methyl Ethyl Ketone to Butenes”, AICHE National Meeting, Oct. 29 – Nov. 3, 2017, Minneapolis, MN.

3. Z. Alauda, H. Alatabi, Q. Zheng, and K.L. Hohn, “Catalysts for Conversion of Methyl Ethyl Ketone to Butenes”, ACS Midwest Regional Meeting, Lawrence, KS, 2017 (poster).

4. Hayder A. Al Atabi, Zahraa F. Al Auda, B. Padavala, M. Craig, K. Hohn, and James H. Edgar. American Conference on Crystal Growth and Epitaxy-21 and Organometallic Vapor Phase Epitaxy-18 (ACCGE-21/OMVPE-18) (2017), "Sublimation Growth and Characterization of Erbium Nitride Crystals.”

5. The 2016 ACS Midwest Regional Meeting in Manhattan, KS.

6. Karima Putrus, Zahraa Al-Auda. Adaptive Control of a pH Process (21 April 2011), the 1st scientific conference of modern techniques in the refining of petroleum and gas (University of technology).

7. Zahraa Al-Auda and Zaidoon Mohsin Shakor. “Control of Neutralization Process for Change over Titration Curve Using Model of Strong Base- Weak Acid System.” (9, October 2009), the 2nd scientific conference of the college engineering (University of Al-Qadisiya).

8. Karima Putrus, Zahraa Al-Auda. “Controlling the pH Neutralization Process Strategies “(23 March 2009), the 11th scientific conference of the Foundation of Technical Education (Technical college-Baghdad).

Skills:

1. GAMS program for chemical engineering optimization.
2. Chemical engineering simulation by COMSOL.
3. Aspen HYSYS.
4. MATLAB.
5. Density Functional Theory (DFT) by VASP.
6. Wolfram Mathematica.
7. Visualization for Electronic STructural Analysis (VESTA).

Honors and Awards:

1. Shield of excellence from the University of Technology for earning first rank out of 132 graduates.

2. Letter of thanks and appreciation from the president of the University of Technology for publishing research papers in distinguished journals.