

CURRICULUM VITAE

Name	Abdullah M. Al-Enizi Ph.D.	Address: P. O. Box: 2455 Riyadh 11451
Present Position	Associate Professor of Chemistry	Department of Chemistry, College of Science
Major Specialization	Materials Chemistry	King Saud University Tel: +966114697493 Mobile: +966555132772
Sub Specialization	Materials Science and Polymers	E mail: amenizi@ksu.edu.sa aaenizi@gmail.com

Professional Experience (Employment):

1. Associate Professor, Chemistry Dept., College of Science: 2018 – now
2. Assistant Professor, Chemistry Dept., College of Science: 2014 – 2018
3. Lecturer of Materials and Polymer Chemistry at Chemistry Department, Faculty of Science, **King Saud University**, Kingdom of Saudi Arabia 2008- 2013
4. Demonstrator at Chemistry Department, Faculty of Science, **King Saud University**, Kingdom of Saudi Arabia 2000-2007
5. Teacher of Chemistry at High School, Saudi Arabia, 1997-2000.

Qualifications & Academic Degrees:

1. Doctor of Philosophy (**Ph. D.**) (2013) **King Saud University**, Kingdom of Saudi Arabia- **Texas University Ustin-USA**. Thesis Title: " **Preparation and Characterization of Nano-composite Materials For Industrial Applications**",2013
2. **M.Sc.** In Organic Chemistry (2006), **King Saud University**, Kingdom of Saudi Arabia. Thesis Title: " **Optical and Thermal Properties of Some Organic Polymers Doped by Organic Dye Lasers**", 2006
3. **B.Sc.** in Chemistry (1997) including final year project on organic synthesis, **King Saud University**, Kingdom of Saudi Arabia.

Membership

1. American Chemical Society, US.
2. Royal Chemical Society,UK.
3. Saudi Chemical Society, Saudi Arabia.
4. Membership committees assess and develop curricula for the chemistry for high school students.

Current Research Interest:

1. Catalysis and Polymer Chemistry.
2. Nanotechnology and Materials Science.
3. Renewable Energy and Fuels.

Projects:

1. Research Grant, the National Plan for Science, Technology and Innovation, Saudi Arabia. Title: (One-dimensional Nanostructured Photoanodes for Efficient Solar-driven Hydrogen Production). 2014—2017.
2. Processing of Polymer Nanofibers, in Principal for "KAIN-LEEDS Joint Projects, 2009.
3. Research Grant, the National Plan for Science, Technology and Innovation, Saudi Arabia Title: Synthesis of novel core-shell mesoporous zeolite catalysts with controllable isolated active sites towards the oxidation of olefins and ketones in liquid phase. 2015-2018.

Conferences:

1. Water Desalination Conference in Arab Countries, Riyadh, 12-15 April 2009.
2. The international Conference for Nanotechnology Industries, The Leading technology of 21st Century, April 5-7 2009, King Abdullah Institute for Nanotechnology, King Saud University, Riyadh-Saudi Arabia.
3. The Arab International Conference in Recent Advances in Physics and Materials Sciences (RAPMS), Alexandria University, Alexandria, Egypt, 18-20 Sep 2005.
4. The 3rd Saudi International Nanotechnology Conference 2014 (3SINC), 1-3 December, at King Abdul Aziz City for Science and Technology (KACST), Riyadh, Kingdom of Saudi Arabia.

List of selected publications:

1. A MOF-based Ultra-Strong Acetylene Nano-trap for Highly Efficient C₂H₂/CO₂ Separation, Zheng Niu, Xili Cui, Tony Pham, Gaurav Verma, Pui Ching Lan, Chuan Shan, Huabin Xing, Katherine A. Forrest, Shanelle Suepaul, Brian Space, Ayman Nafady, **Abdullah M. Al-Enizi**, and Shengqian Ma, *Angew. Chem. Int. Ed.* **2021**, *60*, 5283-5288.
2. Nanospace Engineering of Metal–Organic Frameworks through Dynamic Spacer Installation of Multifunctionalities for Efficient Separation of Ethane from Ethane/Ethylene Mixtures, Cheng-Xia Chen, Zhang-Wen Wei, Tony Pham, Pui Ching Lan, Lei Zhang, Katherine A. Forrest, Sha Chen, **Abdullah M. Al-Enizi**, Ayman Nafady, Cheng-Yong Su and Shengqian Ma, *Angew. Chem. Int. Ed.* **2021**, *60*, 1-8.

3. Synthesis of NiOx@NPC composite for high-performance supercapacitor via waste PET plastic-derived Ni-MOF, **Abdullah M. Al-Enizi**, Mohd Ubaidullah, Jahangeer Ahmed, Tansir Ahamad, Tokeer Ahmad, Shoyebmohamad F. Shaikh, and Mu. Naushad, *Composites part B*, 2020, 183, 107655.
4. Self-grown one-dimensional nickel sulfo-selenide nanostructured electrocatalysts for water splitting reactions, **Abdullah M. Al-Enizi**, Shoyebmohamad F. Shaikh, Mohd Ubaidullah, Mohamed A. Ghanem, and Rajaram S. Mane, *International Journal of Hydrogen Energy* 2020, 45, 15904-15914.
5. Reaction Environment Modification in Covalent Organic Frameworks for Catalytic Performance Enhancement, Qi Sun, Yongquan Tang, Briana Aguila, Sai Wang, Feng-Shou Xiao, Praveen K. Thallapally, **Abdullah M. Al-Enizi**, Ayman Nafady, and Shengqian Ma, *Angew. Chem.* 2019, 131, 8762-8767.
6. NbO₂ Electrocatalyst Toward 32% Faradaic Efficiency for N₂ Fixation, Linsong Huang, Jiawen Wu, Peng Han, **Abdullah M. Al-Enizi**, Tahani M. Almutairi, Lijuan Zhang, and Gengfeng Zheng, *Small Methods* 2019, 3, 1800386
7. Unconventional morphologies of CoO nanocrystals via controlled oxidation of cobalt oleate precursors. W Xu, Z Wang, L Shang, H Zhang, **AM Al-Enizi**, Y Tang, G Zheng, *Chem. Commun.* 2018, 54, 3867-3870.
8. CoCr₇C₃-like nanorods embedded on carbon nanofibers as effective electrocatalyst for methanol electro-oxidation, **Abdullah M. Al-Enizi**, Robert M. Brooks, M.M. El-Halwany, Ayman Yousef, Ayman Nafady, R.M. Abdel Hameed, *International Journal of Hydrogen Energy*, 2018, 43, 9943-9953.
9. Tuning of CO₂ Reduction Selectivity on Metal Electrocatalysts, Yuhang Wang, Junlang Liu, Yifei Wang, **Abdullah M. Al-Enizi**, and Gengfeng Zheng, *Small* 2017, 1701809 (1-15).
10. New insight into the synthesis of large-pore ordered mesoporous materials, Jing Wei, Zhenkun Sun, Wei Luo, Yuhui Li, Ahmed A Elzatahry, **Abdullah M Al-Enizi**, Yonghui Deng, Dongyuan Zhao, *J. Am. Chem. Soc.* 2017, 139, 1706-1713.
11. Epitaxial Growth of Lattice-Mismatched Core-Shell TiO₂@ MoS₂ for Enhanced Lithium-Ion Storage, Rui Dai, Anqi Zhang, Zhichang Pan, **Abdullah M Al-Enizi**, Ahmed A Elzatahry, Linfeng Hu, Gengfeng Zheng *Small*, 2016, 12 (20), 2792-2799.
12. Co-Ni-Based Nanotubes/Nanosheets as Efficient Water Splitting Electrocatalysts, Siwen Li, Yongcheng Wang, Sijia Peng, Lijuan Zhang, **Abdullah M Al-Enizi**, Hui Zhang, Xuhui Sun, Gengfeng Zheng, *Advanced Energy Materials*, 2016, 6 (3) 1501661.
13. From water oxidation to reduction: homologous Ni-Co based nanowires as complementary water splitting electrocatalysts, Zheng Peng, Dingsi Jia, **Abdullah M Al-Enizi**, Ahmed A Elzatahry, Gengfeng Zheng, *Advanced Energy Materials*, 2015, 5 (9), 1402031.

- 14.** Nanoparticle superlattices as efficient bifunctional electrocatalysts for water splitting, Jun Li, Yongcheng Wang, Tong Zhou, Hui Zhang, Xuhui Sun, Jing Tang, Lijuan Zhang, **Abdullah M Al-Enizi**, Zhongqin Yang, Gengfeng Zheng, *J. Am. Chem. Soc*, 2015, 137 (45), 14305-14312.

Patents:

Title: Synthesis of Solid State Dye Laser by Gamma Irradiation Polymerization Method

Inventors: Attiah A Al-ghamdi, **Abdullah M Al-Enizi**

United States Patent 20070034831

Title: Oxygen reduction reaction electrocatalyst

Inventors: **Abdullah M Al-Enizi**, Tansir Ahamad, Saad M Alshehri, Mu Naushad

United States Patent 201715839693

Title: Method of fabricating a photocatalyst for water splitting

Inventors: **Abdullah M Al-Enizi**, Tansir Ahamad, Ayman Yousef

United States Patent 201910456776