Gehan Moatafa Kotb Tolba, PhD

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PERSONAL DATA

Full Name: Gehan Mostafa Kotb Tolba
Date of Birth: 26/09/1981
Place of Birth: Egypt
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ACADEMIC/PROFESSIONAL PARTICULARS

a- Field of Specialization: Nanotechnology applications in water and wastewater treatment, Energy storage devices, Membrane Technology.

b- Academic Qualifications:

1- **Degree:** Ph.D.
2- **Specialization**: nanotechnology
Dissertation Title: "Production of Nanomaterials using Sub-Critical Water Technology for Different Applications"
University: A joint supervision program between Minia University, Egypt and Chonbuk National University, South Korea
Year: From 2013 to 2015

3- Degree: M.SC.
Specialization: Chemical Engineering
Thesis Title: " An experimental study on preparation and evaluation of some porous material "
University: Minia University, Egypt
Year: 2007

4- Degree: B.SC.

Specialization: Chemical Engineering

University: Minia University, Egypt

Year: 2003

CAREER DETAILS

Academic Positions Held: Assistant Professor, Chemical Engineering Department, 2016-current

Employer/organization: Faculty of Agriculture, Minia University.

Work phone number: +2-086-2364510

Work fax number: +2-086-2346674

Work address: Chemical Engineering Department, Faculty of Engineering, Minia University, Minia, Egypt.

Current Research Work

Currently, I am focusing on utilizing agricultural and solid wastes to produce nanomaterials to be used in different applications such as energy storage devices, water treatment, and membrane technology.

List of Publications

1. Tolba, G.M., et al., Effective and highly recyclable nanosilica produced from the rice husk for effective removal of organic dyes. Journal of Industrial and Engineering Chemistry, 2015. 29: p. 134-145

2. Tolba, G.M., et al., Effective and highly recyclable ceramic membrane based on amorphous nanosilica for dye removal from the aqueous solutions. Arabian Journal of Chemistry, 2016. 9(2): p. 287-296.

3. Tolba, G.M., et al., Hierarchical TiO 2/ZnO nanostructure as novel non-precious electrocatalyst for ethanol electrooxidation. Journal of Materials Science & Technology, 2015. 31(1): p. 97-105.

4. Tolba, G.M., et al., Synthesis of Novel Fe-doped Amorphous TiO2/CNanofibers for Supercapacitors Applications. Int. J. Electrochem. Sci, 2015. 10: p. 3117-3123.

5. Tolba, G.M., et al., Synthesis and Electrochemical Capacitance Behavior of ZnO-Doped TiO2 Nanofibers. Energy and Environment Focus, 2014. 3(2): p. 152-156.

6. Nasser A.M. Barakat, Ayman Yousef, M. Obaid, Gehan M.K. Tolba., Ag-doped M 2 O 3 nanoflakes as effective catalyst for lignin liquefaction in supercritical methanol medium. Ceramics International, 2016. 42(3): p. 4386-4392.

7. M. Obaid, Gehan M.K. Tolba &Others., Effective polysulfone-amorphous SiO 2 NPs electrospun nanofiber membrane for high flux oil/water separation. Chemical Engineering Journal, 2015. 279: p. 631-638.

8. TOLBA, Gehan MK. Mn2O3/Ag Nanoflakes as an Effective Electroscatalyst for Urea Oxidation in Alkaline Medium. In: *The International Conference on Chemical and Environmental Engineering*. Military Technical College, 2018. p. 238-250.

Awards

1- Research Excellence award (PhD dissertation), 2017, Minia University, Minia, Egypt.

2- The best among all Ph.D. degrees granted by Egyptian Universities in the field of engineering sciences during the three academic years: 2014/2015, 2015/2016, 2016/2017.