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Personal Information

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Education

2003-2007 B.Sc university of Benha, Microbiology and Chemistry
2012-2015 M.Sc university of Benha , Microbiology

Work Experience In Research (in years)

2010 – 2014 Scholarship student in Scientists of Next Generation (SNG) programs,
funded by the Egyptian Academy of Scientific Research and Technology
(ASRT)
2014-2015 Assistant Researcher in Chemical Engineering & Pilot Plant Department,
Engineering Division at National Research Centre
2015-present Researcher Assistant in Chemical Engineering & Pilot Plant Department,
Engineering Division at National Research Centre

Awards

Outstanding Performance Award, for the best master thesis entitled "Simultaneous Wastewater Treatment and Electricity Generation using Microbial Fuel Cell", National Research Centre (2016).

Workshops

1. German-Egyptian Workshop on Sustainable Water Technology”, Cairo University, Cairo, Egypt, 2013.
2. The 2nd International Conference on Biotechnology and Environmental Safety”, National Research Center, Cairo, Egypt, 2014.

3. Egypt – South Africa international workshop (II), advanced materials for solar energy applications, National Research Center, Cairo, Egypt, 2017.
4. One-day workshop on "Nanotechnology for sustainable development", Central Metallurgical Research and Development institute (CMRD), Cairo, Egypt, 2017.
5. Arab international industrial conference, steps innovative sustainable development, National Research Center, Cairo, Egypt, 2018.

Publications

1. Dena Z.Khater, El-Khatib K.M., Hazaa M., and Hassan R. Y. A.*, 2013, *Microbial Fuel Cells: Generating Bio-electricity from Wastewater*, "German-Egyptian Workshop on Sustainable Water Technology" .,Cairo University, Cairo, Egypt.
2. Dena Z.Khater, El-Khatib K.M., Hazaa M. and Hassan R. Y. A.*, 2014, *Microbial Fuel Cells: Generating Bio-electricity from Wastewater*, "The 2nd International Conference on Biotechnology and Environmental Safety." , National Research Center, Cairo, Egypt.
3. Dena Z. Khater, El-Khatib K.M., Hazaa M. and Hassan R. Y. A*., 2015, *Development of Bioelectro chemical System for Monitoring the Biodegradation Performance of Activated Sludge*, *Appl Biochem Biotechnol.* , 175(7), pp. 3519-3530.
4. Dena Z. Khater, El-Khatib K.M., Hazaa M. and Hassan R. Y. A*., 2015. *Activated Sludge-based Microbial Fuel Cell for Bio-electricity Generation*. *Journal of Basic and Environmental Sciences.*, 2, pp.63–73.
5. **Dena Z. Khater***, K. M. El-khatib, and H. M. Hassan, "Microbial diversity structure in acetate single chamber microbial fuel cell for electricity generation," *J. Genet. Eng. Biotechnol.*, 15(1), pp. 127-137., 2017.
6. Dena Z. Khater, K. M. El-khatib*, and H. M. Hassan, "Hand book of Microbial diversity and performance of Microbial Fuel Cell" ., pp.80., 2017.
7. Dena Z. Khater, K. M. El-khatib*, and Hassan R. Y. A., "Exploring the Bioelectrochemical Characteristics of Activated Sludge Using Cyclic Voltammetry", *Appl Biochem Biotechnol.* , 2017.
8. **Dena Z. Khater***, El-Khatib K.M., Hazaa M. and Hassan R. Y. A., "Effect of vitamins and cell constructions on the activity of microbial fuel cell battery" ., *J. Genet. Eng. Biotechnol.*, in press.
9. **Dena Z.Khater***, K.M.El-Khatib and R.S.Amin, 2018, *Mixed transition metal oxides as cost effective electrocatalysts towards oxygen reduction reaction for application in microbial fuel cells.*, "Arab international industrial conference, steps innovative sustainable development, National Research Center, Cairo, Egypt.

Areas Of Expertise

Microbial Fuel cells, Wastewater treatment, Microbiology, Bioremediation, Biochemistry & Molecular Biology; Biodiversity , Biotechnology & Applied Microbiology, Cell Biology, Electrochemistry, Environmental Sciences & Ecology; Food Science & Technology, Biodegradation, Catalysis, Electron transfer, Bio-cathode , Bio-energy, Electricity generation, Heavy metal.