

Record of Publications

Part I: Personal Information

Full name: *Aghareed Mahmoud Tayeb*

Scientific name: *Aghareed M. Tayeb*

Position: *Professor*

Department: *Chemical Engineering*

Research interests: *Renewable Energy, pollution control, Economics, environmental issues*

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Google scholar link:

https://www.google.com.eg/search?ei=ZzRGWuYeA4zjUZHTmMgD&q=aghareed+tayeb-google+scholar+citations&oq=agha&gs_l=psy-ab.1.0.35i39k1l2j0i67k1j0i10k1j0l6.10986.15301.0.19132.18.16.0.0.0.332.1971.0j6j2j1.10.0...0...1c.1.64.psy-ab..11.7.1558.6..0i203k1j0i20i263k1j0i131k1j0i131i67k1.373.taPM1jySHAQ

Part II: Publications (2013-2017)

- 1- Pre-treatment of olive oil mill wastewaters based on solar management techniques: an integrated rational approach", Aghareed M. tayeb, Maha A., James Clark, 161th OMICS Group Conference, Petrochemistry and Chemical Engineering, November 18-20, 2013 Hilton San Antonio, US
- 2- "Solar management for olive oil mill treatment techniques: an integrated rational approach, Aghareed M. tayeb, Tony, Maha A., 2nd international confrence in pure, applied and basic sciences (ABAS), 2-4 April 2014, Beni Suif unversity, Ain Sokhna, Egypt
- 3- "kinetic modeling of diesel oil wastewater degradation using photo- Fenton process", Aghareed M. Tayeb, Maha A. Tony, P.J. Purcell, Y.Q. Zhao and M.F. El- herbiny. Environmental Engineering and Management Journal, Volume 14(1), 11-16, January, 2015.
- 4- . "Production of biodegradable plastic from agricultural wastes", Aghareed M.Tayeb, N. A. Mostafa, Arabian Journal of Chemistry, 04/2015, 3. DOI: 10.106. arabjc 2015.04.008
Full text: <http://www.sciencedirect.com/science/article/pii/S1878535215001100>
- 5- "Experimental study and optimization of the influencing factors in photocatalytic degradation of MB using Titanate Nanotubes", Aghareed M. Tayeb, Dina S. Hussein, International Journal of Arts and Sciences (IF 0.588). CD-Rom, ISSN:1944-6934, 07(03):59-70 (2014). Available at:
<http://www.universitypublications.net/ijas/0703/html/H4V1027.xml>
- 6- "Synthesis of TiO₂ Nanoparticles and Their Photocatalytic Activity for Methylene Blue", Aghareed M. Tayeb, Dina S. Hussein. *American Journal of Nanomaterials*, 2015, Vol. 3, No. 2, 57-63 Available online at <http://pubs.sciepub.com/ajn/3/2/2> © Science and Education Publishing DOI:10.12691/ajn-3-2-2

- 7- "Pretreatment of olive oil mills wastewater based on solar management technique", Aghareed M. Tayeb, Maha A. Tony James H. Clark, Engineering Research Journal (ERJ), Vol.38, No. 1, January, 2015. And published online: J Pet Environ Biotechnol 2013, 4:6 , <http://dx.doi.org/10.4172/2157-7463.S1.004>
- 8- "Recent advances in potable water-works sludge management: Pilot field solar sludge minimising demonstration, Aghareed M. Tayeb, Tony, Maha A., Y.Q. Zhao, 5th International waste management and landfill symposium, Sardinia, Italy, 5-9 October 2015 oral presentaaion.
- 9- "Alum Sludge: Conditioning, Dewatering and Drying Using a Pilot Scale Demonstration Solar Dryer", Aghareed M. Tayeb, Maha A. Tony, Proceeding of the 8th ICEE Conference 19-21 April 2016 EEA-2 Military Technical College Kobry El-Kobbah, Cairo, Egypt 8th International Conference on Chemical & Environmental Engineering 19 – 21 April 2016
- 11- "Response Surface Regression Model in Optimization of Alum Sludge Drying Facility: Solar-Fenton's Reagent Dewatering, Aghareed M. Tayeb, Tony, Maha A., International Journal of Chemical Engineering and Applications, Vol. 7, No. 5, pp. 331- 335, October 2016 and 6th International Conference on Chemistry and Chemical Process Rome, Italy, 1-3 February 2016.
- 12- An Alternative Arrangement for the Alum Sludge Management: Minimising Waste with Low-Cost Solar Techniques, Aghareed M. Tayeb, Maha A. Tony, Yaqian Zhao, American Journal of Chemical Engineering, 2016; 4(2): 30-37
<http://www.sciencepublishinggroup.com/j/ajche>, doi: 10.11648/j.ajche.20160402.1
ISSN: 2330-8605 (Print); ISSN: 2330-8613 (Online)
- 13- "Treatability Study for Turkey Red Oil Wastewater Using Solar Energy: Photo-Fenton Oxidation", Aghareed M. Tayeb, Tony, Maha A., International Conference on Biotechnology and Environment" presented as oral presentation, Alexandira, Egypt, 1-3 Novemebr, 2016.
- 14- "Use of a Fenton-like process based on nano-haematite to treat synthetic wastewater contaminated by phenol: process investigation and statistical optimization", Aghareed M. Tayeb, Tony, Maha A., Shehab A. Mansour, Patrick J. Purcell, RESEARCH ARTICLE - CHEMICAL ENGINEERING, Arabian Journal for Science and Engineering, Received: 9 November 2016 / Accepted: 7 June 2017
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DOI 10.1007/s13369-017-2632-x

Papers on Learning and Education:

- 1- Use of Modern Technology in Teaching, The 5th. Learning and Technology conference, Effat University, Jeddah, Saudi Arabia
- 2- "CROSS CULTURAL SKILLS FOR THE 21st. CENTURY", the 6th. Annual Learning & Technology Symposium Cyber and Visions, April, 26- 27, 2008.
- 3- "Playful Learning and Creativity", Learning and Technolgy, the 7th. Annual Symposium, Edutainment, Effat College, Jeddah, Saudi Arabia, June, 10- 11, 2009,
- 4- "INNOVATIVE TEACHING AS A MEANS FOR ENHANCING CREATIVE LEARNING Creative Learning and MOOCs: Harnessing the Technology for a 21st Century Higher Education ISBN(13): 978-1-4438-8098-5 (Cambridge Scholars Publishing Ltd is registered in England. Reg. No: 4333775; VAT No: 108280727
- 5- "WEARABLE TECHNOLOGY ENHANCED LEARNING", The 10th. Annual Symposium, Edutainment, Effat College, Jeddah, Saudi Arabia, June, April 2015

- 6- "TECHNOLOGY CAPITALIZATION AND TRANSITION BETWEEN ACADEMIA AND INDUSTRY", Jeddah, Saudi Arabia, 2016

Papers under publication:

1. SOLAR DEWATERING OF ALUM SLUDGE:: EXPERIMENTAL MEASUREMENTS AND MODELING
2. DEWATERING OF ALUM SLUDGE USING SOLAR ENERGY
3. EFFECT OF REACTION TEMPERATURE ON FENTON CONDITIONING OF ALUM SLUDGE; EXPERIMENTAL MEASUREMENTS, MODELING AND SIMULATION
4. Use of Nanowires for Wastewater Treatment: Experimental Investigation and Optimization
5. Effect of Morphology of Titanate Nano- structures on The Photocatalytic Degradation of Methylene Blue
6. A simulation model for a phase-change energy storage system: Experimental and verification
7. Aghareed. M. Tayeb, Tony Maha A., Sh. A. Mansour, Application of Box-Behnken Factorial Design for Parameters Optimization of Basic Dye Removal Using Nano Hematite Photo-Fenton Tool, Journal of Water Chemistry and Technology, under review.
8. Sh. A. Mansour, Tony Maha A., A. M. Tayeb, High Photocatalytic Performance of Fenton's Reagent Based on Hematite Nanocrystals for Basic Dye Removal, Journal of Environmental Science and Health, Part A, Under review.
9. A. M. Tayeb, Tony Maha A., Sh. A. Mansour, Enhancement of solar energy storage using nano ZnO as a phase change material, International Journal of Thermal Sciences, under review.