

Amal Samir Eldesoky



TITLE

Assistant Professor (lecturer)

OFFICE

H-Building

PHONE

+02

E-MAIL

amal-eldesoky70@hotmail.com

LANGUAGES

Arabic
English

EDUCATION

- **Ph.D.:** Image Processing application in Tissue Engineering, Biomedical Engineering, Faculty of Engineering, Helwan University.
- **M.Sc.:** Kinematic Study of a manufactured 4-bar Knee Prosthesis, Biomedical Engineering, Faculty of Engineering, Cairo University.
- **B.Sc.:** Biomedical Engineering, Faculty of Engineering, Cairo University.

PUBLICATIONS

- 1- Bio-ceramic Bone Scaffolds for Tissue Engineering, Journal of Applied Sciences Research, 2010
- 2- Scaffold Development and Characterization Using CAD System, American Journal of Biomedical Sciences, ISSN: 1937-9080, October-2011
- 3- CAD system application in Tissue Engineering, international conference of computer science Application, Alexandria, 2011
- 4- Evaluation, Characterization and Cell Viability of Ceramic Scaffold and Nano-gold loaded Ceramic Scaffold for Bone Tissue Engineering, American Journal of Biomedical Sciences, ISSN: 1937-9080,2012
- 5- Calcium Phosphate Scaffold Loaded with Platinum Nanoparticles for Bone Allograft, American Journal of Biomedical Sciences, ISSN: 1937-9080,2013
- 6- Synthesis and evaluation of multifunctional composite biphasic calcium phosphate bio-ceramic scaffolds loaded with silver nanoparticles, International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018, 22-23 November 2018
- 7- Laser-fabricated poly (ϵ -caprolactone) scaffolds having induced rough surface features that control both the shape and the functionality of stem cells through their extracellular surface micro environment, International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018, 22-23 November 2018

8- Rational Synthesis of One-dimensional Carbon Nitride-based Nanofibers Atomically Doped with Au/Pd for Efficient Conversion of CO to CO₂, Journal of hydrogen-energy, under revise,2019

ACADEMIC EXPERIENCES

- Head of the Biomedical Engineering Department, HTI, Egypt (2017-2018).
- Head of Quality Center in HTI
- Assistant professor, Biomedical Engineering Department, HTI, Egypt.

ACADEMIC COURSES

- 1- Introduction of Biomedical Engineering.
- 2- Biomedical Measurements.
- 3- Biomedical Instrumentation.
- 4- Biomedical Electronics.
- 5- Medical Imaging Systems.
- 6- Biomedical Systems Image Processing.
- 7- Biomaterial.
- 8- Biomechanics.
- 9- Advanced Topics in Biomedical Engineering.
- 10- Bio-Analysis Equipment.
- 11- Graduation Projects