

ABET Curriculum Vitae of:

Mohamed Talaat Mohamed Moustafa

DEGREE	DISCIPLINE	INSTITUTION	YEAR
Ph. D.	Electrical power and machines	Zagazig University	2009
M. Sc.	Electrical power and machines	Zagazig University	2005
B. Sc.	Electrical power and machines	Zagazig University	2000

Academic Rank: Associate Professor

Academic Experience:

Institution: Shaqra University

Rank: Associate Professor

Title: (Vice Dean Assistant for Academic Affairs)

Dates: December 2017 – present

Full Time or Part Time: Full Time

Institution: Shaqra University

Rank: Associate Professor

Title: (Head of Electrical Department)

Dates: April 2018 – present

Full Time or Part Time: Full Time

Institution: Zagazig University

Rank: Associate Professor

Title: (Consultant of Management Information System in the Ministry of Higher Education)

Dates: 2016 – 2017

Full Time or Part Time: Full Time (for Zagazig University) and Part Time (for Higher Education)

Institution: Zagazig University

Rank: Assistant Professor

Title: (Manager of IT Unit (for Faculty) – Manager of Training Unit (for University))

Dates: 2009 – 2016

Full Time or Part Time: Full Time

Institution: Zagazig University

Rank: Lecturer

Title: (Member of Quality Assurance Unit)

Dates: 2005 – 2009

Full Time or Part Time: Full Time

Institution: Zagazig University

Rank: Demonstrator

Title: Demonstrator

Dates: 2001 – 2005

Full Time or Part Time: Full Time

Certifications or Professional Registrations:

Membership in Professional Organizations:

Scientific Reviewer at IEEE PES Transactions on Power Delivery – IEEE Plasma Science – IET.

Scientific Reviewer at (Applied Energy, Energy, Computers and Electrical Engineering) Elsevier.

Editorial Board Member of [Journal of Electrical Engineering](#), (Romania).

Editorial Board Member of [International Journal of Electromagnetics and Applications](#) (USA).

Honors and Awards: International Publishing Award for years 2009-2013-2014-2015-2016-2017-2018

Service Activities: (Electrical Consultant (Governorate of Al Sharqia - Egypt))

Principal Publications and Presentations of the Last Five Years:

- [1]. **M. Talaat**, "Calculation of electrostatically induced field in humans subjected to high voltage transmission lines", **Electric Power Systems Research** Vol. 108, pp. 124-133, **2014. Elsevier.**
- [2]. **M. Talaat**, "Calculation of Electric and Magnetic Induced Fields in Humans Subjected to Electric Power Lines", **Journal of Electrostatics** Vol. 72, No. 5 pp. 387-395, **2014. Elsevier.**
- [3]. **M. Talaat**, "Electrostatic Field Calculation in Air Gaps with a Transverse Layer of Dielectric Barrier", **Journal of Electrostatics** Vol. 72, No. 5 pp. 422-427, **2014. Elsevier.**
- [4]. **M. Talaat**, M. A. Farahat, and M. Osman, "Assessment of earthing system location for wind turbines using finite element method", **Renewable Energy**, Vol. 93, pp. 412-423, **2016. Elsevier.**
- [5]. A. EL-Zein, **M. Talaat**, G. El-Aragi and A. El-Amawy, "Electrical Characteristics of Nonthermal Gliding Arc Discharge Reactor in Argon and Nitrogen Gases", **IEEE Transactions on Plasma Sciences**, Vol. 44, No. 7, pp. 1155-1159, **2016. IEEE.**
- [6]. **M. Talaat**, M. H. Gobran, and M. Wasfi, "A hybrid model of an artificial neural network with thermodynamic model for system diagnosis of electrical power plant gas turbine", **Engineering Applications of Artificial Intelligence**, Vol. 68, pp. 222-235, **2018. Elsevier.**
- [7]. **M. Talaat**, A. El-Zein, and M. Amin, "Electric Field Simulation for Uniform and FGM Cone Type Spacer with Adhering Spherical Conducting Particle in GIS", **IEEE Transactions on Dielectrics and Electrical Insulation**, Vol. 25, No. 1, pp. 339-351, **2018, IEEE.**
- [8]. **M. Talaat**, H. M. B. Metwally. and I. Arafa, "Experimental and Simulation Study of Wireless Power Transfer Using Resonators with Coupled Electric Fields", **IEEE Transactions on Plasma Sciences**, Vol. 46, No. 7, pp. 2480-2487, **2018. IEEE.**
- [9]. **M. Talaat**, M. A. Farahat and Taghreed Said, "Numerical investigation of the optimal characteristics of a transverse layer of dielectric barrier in a non-uniform electric field," **Journal of Physics and Chemistry of Solids**, Vol. 121, pp. 27-35, **2018. Elsevier**
- [10]. **M. Talaat**, A. El-Zein, and M. Amin, "Developed Optimization Technique Used for the Distribution of U-shaped Permittivity for Cone Type Spacer in GIS", **Electric Power Systems Research**, Vol. 163, pp. 754-766, **2018. Elsevier.**
- [11]. A. El-Zein, **M. Talaat** and A. Samir, "Positive Streamer in Gases: Physical Approach from Low to High Energies", **Vacuum**, Vol. 156, pp. 469-474, **2018, Elsevier.**
- [12]. **M. Talaat**, M. A. Farahat, Mohamed A. Essa and M. S. Maowwad, "Simulation of the Electric Field and the GPR Resulting from Vertical-Driven Rods Earthing System in a Multi-Layers Earth Structure," **Measurement**, Vol.132, pp. 387-401, **2019. Elsevier.**
- [13]. **M. Talaat**, A. El-Zein and A. Samir, "Numerical and simulation model of the streamer inception at atmospheric pressure under the effect of a non-uniform electric field", **Vacuum**, Vol. 160, pp. 197-204, **2019, Elsevier.**
- [14]. **M. Talaat**, Abdulaziz S. Alsayyari, M. A. Farahat and Taghreed Said, "Moth-Flame Algorithm for Accurate Simulation of a Non-Uniform Electric Field in the Presence of Dielectric Barrier," **IEEE Access**, Vol. 7, pp. 3836-3847, **2019. IEEE.**
- [15]. **M. Talaat**, M. A. Farahat and M. H. Elkholy, "Renewable power integration: Experimental and simulation study to investigate the ability of integrating wave, solar and wind energies," **Energy**, Vol. 170, pp. 668-682, **2019. Elsevier.**
- [16]. **M. Talaat**, Abdulaziz S. Alsayyari, Mohamed A. Essa and M. A. Yousef, "Investigation of transparent pyramidal covers effect to PV power output using detected wireless sensors incident radiation," **Measurement**, Vol.136, pp. 775-785, **2019. Elsevier.**