NAME : MARWA HASSAN MAHMOUD GOUDA

CURRENT POSITION : RESEARCHER

PERSONAL INFORMATION	Full Name: Affiliations: Address: Mobile No.: E-mail: Important links	**Marwa Hassan Mahmoud Gouda** **Polymer Materials Research Department, Advanced Technolo and New Materials Research Institute (ATNMRI), City of Scientific Research and Technological Applications (SRTA-City)** **Admon Fermon street Smouha-Alexandria** **01018424577** **mgouda@srtacity.sci.eg** **marwagouda777@yahoo.com**
EDUCATION	**(PhD ,2017)** in Chemical Engineering (Fuel Cell) **(M.Sc,2011)** in Chemical Engineering (wastewater treatment) **(Diploma,2005)** in Chemical Engineering **Bachelor of Chemical Engineering, 2001**	
ACTIVITIES	**Scientific Activitie** Conference papers • **Participation in the 5th World Congress on Mechanical, Chemical, and Material Engineering (MCM'19) Lisbon, Portugal (2019), with Paper No. ICCPE 106, DOI: 10.11159/iccpe19.106. titled "*Novel Ternary Polymer Blend Membranes Doped with SO4/PO4-TiO2 for Low Temperature Fuel Cells*" from 15 – 17 August, 2019.** • **Participation in 4 th international conference on welding and failure analysis of engineering materials (WAFA-2018)with paper titled "Poly vinyl alcohol/Polyaniline/Carboxylated Graphene Nanocomposites for self-healing coating protectionof cast iron in simulated seawater "from 19-22 November 2018**	

	Review Articles " • Space Environment Effect on Polymeric Nano-Composite Materials" Journal Aerotecnica Missili & Spazio 2020 • **Influence of bacterial consortia in conjunction with bio-enhancers on growth and yield of foxtail millet (Setaria italica L.)** **International Research Journal of Pure and Applied Chemistry 2020**
	Member in Department board 2019,2020 **Member in Institute board 2019**
GRANTS	**(ASRT-BA) Post doctoral fellowship grant fund from Alexandria Library and Academy of Scientific Research 2020**
LIST OF PUBLICATIONS	• Eman M. Elsayed , Mohamed S. Elnouby , M. H. Gouda , Noha A. Elessawy and D. M. F. Santos" E_ect of the Morphology of Tungsten Oxide Embedded in Sodium Alginate/Polyvinylpyrrolidone Composite Beads on the Photocatalytic Degradation of Methylene Blue Dye Solution, Materials 2020, 13, 1905; doi:10.3390/ma13081905 • Noha A. Elessawy , M. H. Gouda , Safaa M. Ali , M. Salerno and M. S. Mohy Eldin" Effective Elimination of Contaminant Antibiotics Using High-Surface-Area Magnetic-Functionalized Graphene Nanocomposites Developed from Plastic Waste" *Materials* **2020**, *13*, 1517; doi:10.3390/ma13071517

- M.H. Gouda , W. Gouveia , N.A. Elessawy , B. Sljukic , AB.A.A. Nassr , D.M.F. Santos" Simple design of PVA-based blend doped with SO4(PO4)-functionalised TiO2 as an effective membrane for direct borohydride fuel cells" international journal o f hydrogen energy 4 5 (2 0 2 0) 1 5 2 2 6 -1 5 2 3 8

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- *NOHA A. ELESSAWY*, *MARWA H. GOUDA*, MARWA F. ELKADY, SAFAA M. ALI, M. GOUDA, MOHAMED S. MOHY ELDIN "ULTRA-FAST REMOVAL OF CADMIUM AND LEAD FROM WASTEWATER USING HIGH-EFFICIENT ADSORBENT DERIVED FROM PLASTIC WASTE: STATISTICAL MODELING, KINETIC AND ISOTHERM STUDIES" DESALINATION AND WATER TREATMENT (2020) 173, 394-408
- *M.H.GOUDA*, MOHAMED ELNOUBY, ANDREW N. AZIZ, M E. YOUSSEF, DIOGO M. SANTOS, *NOHA A.ELESSAWY*" GREEN AND LOW-COST MEMBRANE ELECTRODE ASSEMBLY FOR PROTON EXCHANGE MEMBRANE FUEL CELLS: EFFECT OF DOUBLE-LAYER ELECTRODES AND GAS DIFFUSION LAYER" FRONTIERS IN MATERIALS (2020) 6, ARTICLE NO.337 DOI: 10.3389/FMATS.2019.00337
- *Noha A. Elessawy*, Mohamed Elnouby, ***M.H. Gouda***, Hesham A. Hamad, Nahla A. Taha, M. Gouda, Mohamed S. Mohy Eldin" Ciprofloxacin removal using magnetic fullerene nanocomposite obtained from sustainable PET bottle wastes: Adsorption process optimization, kinetics, isotherm, regeneration and recycling studies" Chemosphere (2020) 239,124728, DOI: 10.1016/j.chemosphere.2019.124728.
- ***M.H.Gouda***, W.Gouveia, M.L.Afonso, B.Šljukić, *N.A. El Essawy*, AB.A.A.Nassr, D.M.F.Santos " Poly(vinyl alcohol)-based crosslinked ternary polymer blend doped with sulfonated graphene oxide as a sustainable composite membrane for direct borohydride fuel cells", Journal of Power Sources, 432, 2019, 92-101.
- M. M. Sabet[1], T. M. Tamer[1*], A. M. Omer[1], M.A. Hassan[2], ***M.H. Gouda[1]***, M. S. Mohy Eldin[1],"Effect of tween 20 as Plasticizer on cinnamyl chitosan membranes: Preparation, characterization and antimicrobial evaluation" **,**Egyptian journal of chemistry**, 9**(2019)

	• M. S. Mohy Eldin, H. A. Farag, T. M. Tamer. A. H. Konsowa, ***M. H. Gouda***, "Development of novel iota carrageenan-g-polyvinylalcohol polyelectrolyte membranes for direct methanol fuel cell application",Polymer Bulletin,(2019) doi.org/10.1007/s00289-019-02995-6 • **Participation in the 5th World Congress on Mechanical, Chemical, and Material Engineering (MCM'19) Lisbon, Portugal (2019), with Paper No. ICCPE 106, DOI: 10.11159/iccpe19.106. titled "*Novel Ternary Polymer Blend Membranes Doped with SO4/PO4-TiO2 for Low Temperature Fuel Cells"* from 15 – 17 August, 2019**. • PARTICIPATION IN 4TH INTERNATIONAL CONFERENCE ON WELDING AND FAILURE ANALYSIS OF ENGINEERING MATERIALS (WAFA-2018), WITH A PAPER TITLED "POLY VINYLALCOHOL/ POLYANILINE /CARBOXYLATED GRAPHENE NANOCOMPOSITES FOR SELF-HEALING COATING PROTECTION OF CAST IRON IN SIMULATED SEAWATER" FROM 19-22 NOVEMBER 2018. • M.S. Mohy Eldin, ***M.H. Gouda***, M.A. Abu-Saied, Yehia M.S. El-Shazly & H.A. Farag[c] "Development of grafted cotton fabrics ions exchanger for dye removal applications: methylene blue model" Desalination and water treatment (2015)1-12 • Mohamed S. Mohy Eldin , ***M. H. Gouda*** , M. E. Youssef · H. A. Farag "Removal of Methylene Blue by Amidoxime Polyacrylonitrile-Grafted Cotton Fabrics: Kinetic, Equilibrium, and Simulation Studies" , Fibers and Polymers ,Jan 2017 ·