



AHMED EL-MOGHAZY

ASSOCIATE PROFESSOR

<p>PERSONAL INFORMATION</p>	<p>Full Name: Affiliations: Address: Mobile No.: E-mail: Important links:</p>	<p>Ahmed Yasseen El-Moghazy Polymeric Materials Research Dep., Advanced Technology & New Materials Research Institute, City of Scientific Research and Technological Applications (SRTA-City). Universities & Researches District, New Borg El-Arab City, Alexandria, P.O.Box:21934, Egypt. +2010-6664-8609 aelmoghazy1@gmail.com aelmoghazy@srtacity.sci.eg https://www.researchgate.net/profile/Ahmed-El-Moghazy</p>
<p>EDUCATION</p>	<p>Ph.D., Environmental studies, 2016, University of Perpignan <i>via</i> Domitia, France - Alexandria University, Egypt. M.Sc., Pesticides, 2012, Alexandria University, Egypt. B.Sc. Agricultural Sciences, 2005, Alexandria University, Egypt.</p>	
<p>ACTIVITIES</p>	<p>Membership of Academic Associations:</p> <ul style="list-style-type: none"> • National Institute Health (NIH) as an Investigator. (2019-Now) • American Chemical Society (ACS). (2018-Now) • Division of Polymer Chemistry, American Chemical Society (ACS). (2018-Now) • Division of Polymeric Materials, American Chemical Society (ACS). (2018-Now) • Division of Analytical Chemistry, American Chemical Society (ACS). (2018-Now) • Academic Researchers United. (2017-Now) • L'équipe France Alumni, Campus France, France. (2015-Now) • Arab Society for Material Science, Alexandria, Egypt. (2014-Now). <p>Oral Presentations:</p> <ul style="list-style-type: none"> • <i>Nanofibrous-based-Electrochemical Sensor via Nanobodies for Point-of-Use Detection of Pyrethroids in Water.</i> 30 January 2020, Oregon State University, Corvallis, OR, USA. • <i>Novel nanobody-based-electrochemical immunosensor on nylon nanofibrous membranes for detection of 3-Phenoxybenzoic acid in human urine.</i> ACS Fall 2019 National Meeting, 26 August 2019, San Diego, CA, USA. • <i>Electrochemical sensing of air pollutants using nanofiber mats.</i> 1 August 2019, California Environmental Protection Agency (CalEPA), CA, USA. 	

	<ul style="list-style-type: none"> • Nanofibers as Smart Matrices for Highly-Sensitive Detection Platforms. UC Davis Environmental Health Sciences Center Annual Retreat, 3 April 2018, University of California Davis, CA, USA. • Nanofibrous Membranes for Ultrasensitive Immunosensor Development for Antibiotics Residual Detection. October 2017, University of Perpignan via Domitia, France. • Using of Some Natural Materials for Plant Protection & Food Preservation. 18 September 2014, Szent Istvan University, Hungary.
<p>GRANTS & AWARDS</p>	<ul style="list-style-type: none"> ➤ Fiber and Polymer Science group, College of Agricultural and Environmental Sciences, University of California Davis (UC Davis), USA. Fellowship funded by UC Davis (October 2017 - July 2021). ➤ Biosensor laboratory, University of Perpignan via Domitia, France. Fellowship granted by <i>Institute Français d’Egypte</i> under project titled <u>“Development of ultra-sensitive biosensor based on nanofibers for detection pesticides residues in food”</u>. (July 2015 - January 2016). ➤ Biosensor laboratory, University of Perpignan via Domitia, France. Fellowship granted by <i>Institute Français d’Egypte</i> under project titled <u>“Development of disposable biosensor for ultra-sensitive determination of some pesticides residues in drinking water”</u>. (July 2014 - January 2015). ➤ Plant protection institute - Szent Istvan University – Hungary. Fellowship granted by <i>Hungarian Academy of Sciences</i>, under project titled <u>“Using of some natural polymers for plant protection & food preservation”</u>. (5th -19th September 2014).
<p>LIST OF PUBLICATIONS</p>	<ul style="list-style-type: none"> • Ahmed Y. El-Moghazy, Nicharee Wisuthiphaet, Xu Yang, Gang Sun, Nitin Nitin (2022). Electrochemical biosensor based on genetically engineered bacteriophage T7 for rapid detection of <i>Escherichia coli</i> on fresh produce. <i>Food Control</i>. 135:108811. (I.F.:5.548). • Noha Amaly, Ahmed Y. El-Moghazy, Nitin Nitin, Gang Sun, Pramod Pandey (2021). Synergistic adsorption-photocatalytic degradation of tetracycline by microcrystalline cellulose composite aerogel doped with montmorillonite hosted methylene blue. <i>Chemical Engineering Journal</i>. 430:133077. (I.F.:13.273). • Peixin Tang, Ahmed Y El-Moghazy, Bolin Ji, Nitin Nitin, Gang Sun. Unique “posture” of rose Bengal for fabricating personal protective equipment with enhanced daylight-induced biocidal efficiency. <i>Materials Advances Journal</i>, 2: 3569–3578. • Noha Amaly, Ahmed Y. El-Moghazy, Gang Sun, Pramod Pandey (2021). Effective Tetracycline removal from liquid streams of dairy manure via hierarchical poly (vinyl alcohol-co-ethylene)/polyaniline metal complex nanofibrous membranes. <i>Journal of Colloid and Interface Science</i>. 597:9-20. (I.F.: 8.128). • Noha Amaly, Ahmed Y. EL-Moghazy, Gang Sun (2021). Fabrication of polydopamine-based NIR-light responsive imprinted nanofibrous membrane for

effective lysozyme extraction and controlled release from chicken egg white. *Food Chemistry Journal*, 357:129613 (I.F.: 7.514).

- Zheng Zhang, **Ahmed Y. El-Moghazy**, Nicharee Wisuthiphaet, Nitin Nitin, Diego Castillo, Brian G. Murphy, Gang Sun (2020). Daylight-Induced Antibacterial and Antiviral Nanofibrous Membranes Containing Vitamin K Derivatives for Personal Protective Equipment. *ACS Applied Materials & Interfaces*. 12(44): 49416–49430. (I.F.: 9.229).
- Peixin Tang, Zheng Zhang, **Ahmed Y. El-Moghazy**, Nicharee Wisuthiphaet, Nitin Nitin, Gang Sun (2020). Daylight-Induced Antibacterial and Antiviral Cotton Cloth for Offensive Personal Protection. *ACS Applied Materials & Interfaces*. 12(44): 49442–49451. (I.F.: 9.229)
- **Ahmed Y. El-Moghazy**, Jingqian Huo, Noha Amaly, Natalia Vasylieva, Bruce Hammock, Gang Sun. (2020) An innovative Nanobody-based-Electrochemical Immunosensor using Decorated Nylon Nanofibrous for Point-of-Care Monitoring of Human Exposure to Pyrethroid Insecticides. *ACS Applied Materials & Interfaces*. 12(5): 6159-6168. (I.F.: 9.229)
- **Ahmed Y. El-Moghazy**, Noha Amaly, Georges Istamboulie, Nitin Nitin, Gang Sun (2020). A signal-on electrochemical aptasensor based on silanized cellulose nanofibers for rapid point-of-use detection of ochratoxin A. *Microchimica Acta*. 187:535. (I.F.: 5.833).
- A.A.Nayl, A. I. Abd-Elhamid, **Ahmed Y. El-Moghazy**, Mohamed Hussin, M.A. Abu-Saied, Ahmed A. El-Shanshory, Hesham .M. A. Soliman. (2020) The nanomaterials and recent progress in biosensing systems, A review. *Trends in Environmental Analytical Chemistry*.26: e00087. (I.F.: 9.6).
- **Ahmed Y. El-Moghazy***, Cunyi Zhao, Georges Istamboulie, Noha Amaly, Yang Si, Thierry Noguier, Gang Sun (2018). Label-free ultrasensitive electrochemical immunosensor based on PVA-co-PE nanofibrous membrane for chloramphenicol residues detection in milk. *Biosensors & Bioelectronics*. 117: 838-844. (I.F.: 10.618).

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