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Prairie View, TX 77the 446

Position Title: Clinical Associate Professor
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Education:	Degree and Area of Study	Institution Name	Degree Date
	Bachelor of Chemical Engineering	BUET	09/1998
	Master of Science in Food Preservation Engineering	KULeuven, Belgium	07/2001
	Doctor of Philosophy (Medical Engineering)	The University of Hong Kong (HKU)	02/2010

Teaching Experience	Position Title	Institution Name	Position Dates (Beginning and End)
	Clinical Associate Professor	Prairie View A&M University	04/2023-current date
	Research Scientist	Prairie View A&M University	07/2019-03/2023
	Associate Professor	UTM	09/2017-06/2018
	Senior Lecturer	UTM	10/2010-08/2017
	Teaching Assistant	HKU	09/2005-08/2010

Professional Publications: **Editor of a STEM Book:**
Sultana, N., Ghosh, S.B., Fhong S.C. (2020). Tissue Engineering Strategies for organ regeneration. CRC Press, Taylor and Francis, USA, ISBN 9781138391543.

Book Author:
Sultana, N. (2013). Biodegradable Polymer-Based Scaffolds for Bone Tissue Engineering, Springer, ISBN: 978-3-642-34801-3

N Sultana, MI Hassan, MM Lim, "Composite Synthetic Scaffolds for Tissue Engineering and Regenerative Medicine", Springer, 2014, ISBN 978-3-319-09754-1

Peer-Reviewed Articles:
Sultana, N., Rahman, R. Electrospun nanofiber composite membranes based on cellulose acetate/nano-zeolite for the removal of oil from oily wastewater. *emergent mater.* **5**, 145–153 (2022). <https://doi.org/10.1007/s42247-021-00326-y>

S. A. Zamhuri, C. F. Soon, A. N. Nordin, R. Ab Rahim, **N. Sultana**, M. A. Khan, et al. (2022). A review on the contamination of SARS-CoV-2 in water bodies: Transmission route, virus recovery, and recent biosensor detection techniques. *Sensing and Bio-Sensing Research* 2022 Vol. 36 Pages 100482

Sultana N. (2021), Electrospun Biodegradable Bi-layered Microfiber Membrane for Aluminum Removal in Drinking Water. *J. Micro and Nano Systems.* **13** (1), 82-89.

Sultana, N., Chang, H., Jefferson, S., *et al.* (2020) Application of conductive poly(3,4-ethylene dioxythiophene): poly(styrene sulfonate) (PEDOT: PSS) polymers in potential biomedical engineering. *J. Pharm. Investig.* **50**, 437–444.

Al-Gheethi, Ma, N.L., Rupani, P.F. **Sultana, N.**, *et al.* Biowastes of slaughterhouses and wet markets: an overview of waste management for disease prevention. *Environ Sci Pollut Res* (2021).

MI Hassan, NN Masnawi and **N Sultana**, Biomaterialized Conductive PEDOT: PSS-coated PLA/PHBV/HA Nanofibrous Membranes. *ASAIO Journal* (2017).

MI Hassan and **N Sultana**, Characterization, drug loading, and antibacterial activity of nanohydroxyapatite/polycaprolactone (nHA/PCL) electrospun membrane (2017). *3 Biotech*, (2017) 7:249 DOI 10.1007/s13205-017-0889-0

Chang, H. C., & **N Sultana**, (2017). PLA/PHBV electrospun membrane: Fabrication, coating with conductive PEDOT: PSS, and antibacterial activity of drug-loaded membrane. *Cogent Engineering*, 4(1), 1322479.

H C Chang, **N Sultana**, AF Ismail, "Conductive PEDOT: PSS coated polylactide (PLA) and poly hydroxybutyrate-co hydroxyvalerate (PHBV) electrospun membrane: Fabrication and Characterization", *Materials Science and Engineering C*, 61, 2016

MM Lim and **N Sultana**, In vitro cytotoxicity and antibacterial activity of silver-coated electrospun polycaprolactone/gelatin nanofibrous scaffolds, *3-Biotech*, (2016) 6: 211.

F Roozbahani, **N Sultana**, D Almasi, and F Naghizadeh, "Effects of Chitosan Concentration on the Protein Release Behaviour of Electrospun Poly(-caprolactone)/Chitosan Nanofibers," *Journal of Nanomaterials*, vol. 2015, Article ID 747420

N Sultana, M. Wang, "PHBV/ PLLA Based scaffolds using emulsion freezing/freeze-drying 4technique: surface modification and in vitro biological evaluation", *Biofabrication*, 4 015003, 2012.

N Sultana, M Wang, Fabrication of HA/PHBV composite scaffolds through the emulsion freezing/freeze-drying process and characterization of the scaffolds, 2008, *Journal of Materials Science: Materials in Medicine*, Volume 19, Issue7, Pages 2555-2561.

MI Hassan, **N Sultana** and S Hamdon. "Bioactivity Assessment of Poly(ε-caprolactone)/Hydroxyapatite Electrospun Fibers for Bone Tissue Engineering Application" *Journal of Nanomaterials*, Vol. 2014 (2014)

Additional Training/Skills:

As PI, implemented, monitored, and managed several research grants.

As co-PI, Gaining Equity in Training for Public Health Informatics and Technology Grant from the office of national coordinator, ONC 2021/09/21-2025/09/20, 90PH0003/01-00, ONC/PHIT

Awarded membership as Chartered Scientist, Science Council, UK, in 2012; Chartered Engineer, Engineering Council, UK, 2014; Professional Engineer, Institute of Materials, Minerals, and Mining (IOM3, UK), American Chemical Society, 2017.

Editorial member, Cogent Engineering Journal, 2017-present. Peer Reviewers for journals.

Recognized as "Women in Nanotechnology 2022" by the Journal "Emergent Materials"