

Detailed CV

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Scientific profiles:

Research gate: https://www.researchgate.net/profile/Hamouda_Mousa

Google scholar: <https://scholar.google.com/citations?user=eq482DsAAAAJ&hl=en>

Homepage: http://www.svu.edu.eg/arabic/staff/application/result.aspx?id_num=7777

ORCID: <https://orcid.org/0000-0003-0087-1458>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=56287921800>

Education

March 2014- August 2016	PhD	Division of Mechanical Engineering, Department of Bionanosystem Engineering, Colleges of Engineering (with GPA 4.0 out 4.0) (Supervisor Prof. Cheol Sang Kim).	Jeonbuk National University, South Korea
2009-2012	M.Sc	Industrial Engineering Department, Collage of Engineering (Supervisor Prof. Saied Darwish). (Very good with GPA 3.97/5.0)	King Saud university, Riyadh, Saudi Arabia
2002-2007	B.Sc	Mechanical Engineering department, Faculty of Engineering (Very good grade with 79.89 %).	Assuit university, Assuit, Egypt.

Postdoctoral Training

Fulbright scholar 2019-2020	Fulbright Egyptian Scholar Program – Post-doctoral Research Grants	Department of Mechanical Engineering	Massachusetts Institute of Technology (MIT), Cambridge, MA, USA
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Fulbright visiting scholar Summer 2017	Fulbright Commission Junior Faculty Development Program	Department of Biomedical Engineering	(Prof. Ellen Roche) Texas A&M University, USA (Prof. Anthony Guiseppi-Elie).
2014	Visiting Researcher (One month)	Stem Cell Institute, College of Veterinary Medicine	Kangwon National University, Republic of Korea, Prof.Heung M. Woo
Faculty Academic Appointments Achievements			
2024		Team member of SVU strategic plan	South valley university
2024		Team leader of TTU strategic plan	Thebes Technological University, Luxor, Egypt
2023-till now		External Reviewer for Faculties and Institutes of Higher Education	National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Egypt
2023-till now		Director of center of gifted and talent students	Thebes Technological University, Luxor, Egypt
2021-2022		Consultant and member of Egypt government excellence award in south valley university	South valley university
October 2022-till now		Head of south valley university world ranking community	South valley university
2021- October 2022		Member of south valley university world ranking community	South valley university
2021/2022	Head	Curriculum design of both mechanical design	Faculty of Engineering,

	&Member	and production programs, and industrial engineering and manufacturing programs.	South Valley University, Egypt
2020	Head & member	Curriculum design of biomedical engineering program	National South Valley University, Egypt
2020	Community Head	Curriculum design of industrial engineering and manufacturing program	National South Valley University, Egypt
September 2020 till now	Member	Quality assurance unit	Faculty of Engineering, South Valley University, Egypt
2016-Till now	Director & lab head	Bioengineering and nanotechnology laboratory	Faculty of Engineering, South Valley University, Egypt
2017	Director	Workshop and laboratory of materials engineering and mechanical production section in the department.	Faculty of Engineering, South Valley University, Qena, Egypt
November 2016	Assistant professor (lecturer)	Mechanical Engineering, Materials Engineering	South Valley University, Qena, Egypt
2012-2014	Research Assistant	Mechanical engineering department	South Valley University, Qena, Egypt
2011-2012	Demonstrator	Mechanical engineering department	South Valley University, Qena, Egypt
2009-2012	Demonstrator and Research Assistant	Industrial Engineering Department	King Saud University (KSU), Saudi Arabia

Editorial Activities as reviewer

2024	Academic editor	International Journal of Polymer Science	https://onlinelibrary.wiley.com/page/journal/9484/homepage/editorial-board
2020	Editorial Board	Journal of Innovations in Engineering Education	Thapathali Campus, Nepal
2019	Editorial Board	SVU-International Journal of Engineering Sciences and Applications.	Faculty of Engineering, South Valley University, Egypt

Editorial Activities as reviewer

Ad hoc Reviewer: for more details, please check my publons profile

<https://www.webofscience.com/wos/author/record/2062146>

- Chemical Engineering Journal. (Elsevier).
- Acta biomaterialia (Elsevier).
- Journal of Alloys and Compounds. (Elsevier)
- Materials Letters. (Elsevier)
- Materials Science and Engineering C. (Elsevier)
- Applied Surface Science. (Elsevier)
- Superlattices and Microstructures-Journal. (Elsevier)
- Ceramic International. (Elsevier)
- Water research (Elsevier)
- Biomedical Microdevices (Springer)
- Chemosphere (Elsevier)
- Journal of Molecular Liquids (Elsevier).
- Materials Chemistry and Physics (Elsevier).
- Journal of Molecular Liquids (Elsevier).
- Polymers (MDPI)
- Membrane (MDPI)

- Materials (MDPI)
- Applied Organometallic Chemistry (Wiley).
- Journal of Bionic Engineering (Springer).

Honors and Prizes & awards and scholarships		
2021	Egyptian state encouragement award for engineering science 2020.	Academy of Scientific Research and Technology, Egypt.
2019	Principal candidate for the 2019/2020 Fulbright Egyptian scholar program – post-doctoral research grants (10 months)	Massachusetts Institute of Technology, MIT, USA.
2019	Excellent Scientific Research for 2018.	South valley university, Qena, Egypt
2018	South valley university encouragement award in engineering science in 2017.	South valley university, Qena, Egypt
2018	Excellent Scientific Research for 2017.	South valley university, Qena, Egypt
2017	Prize for 3D Printer project from Council of south valley university by the head of university, President Abass Mansour.	South valley university, Qena, Egypt
2017	Excellence prize for project title “Fabrication of 3D printer using reverse engineering” in 4 th international Cairo innovation forum.	Academy of Scientific Research & Technology, Egypt
2017	Principal candidate for the 2017 Fulbright Egyptian Junior Faculty Development Program.	Texas A&M university, Texas, USA
2017	Excellent Scientific Research for the year 2016.	South valley university, Egypt
2016	Excellent Scientific Research for the year 2015.	South valley university, Egypt
2015	Excellent Scientific Research for the year 2014.	South valley university, Egypt
2014	Excellent Scientific Research for year 2013.	South valley university, Egypt

2014	Ph.D Scholarship, Hokkaido university.(Canceled due to joining Korea scholarship)	Japan
2013	Ph.D scholarship, Chonbuk national university.	Republic of Korea
2010	Certificate of attending the 2 nd ksu student symposium for engineering science field, ranked the third.	King Saud university, Saudi Arabia.
2010	Certification of six sigma green belt.	king Saud university, Saudi Arabia
2009	Scholarship for master degree.	king Saud university, Saudi Arabia
2007	Certificate for superior student in bachelor student's symposium.	Assuit University, Egypt.

Report of Funded and Unfunded Projects

2022	E+ Capacity building in the field of Higher Education project "The Mediterranean countries: Towards internationalization at home (MED2IaH)	Under Erasmus + program. France, University of Montpellier, Piran, EMUNI, Slovenia.Universidad Católica de Murcia (UCAM), Murcia, Spain.	Closed
2020	Graduation project support.	South valley innovation office and technology transfer	Closed
2019	INNOLEA: Innovation for the Leather Industry in Jordan and Egypt 585822-EPP-1-2017-1-EL-EPPKA2-CBHE-JP. Role: Member for Mechanical part.	Under Erasmus + program.	Closed
2018	Graduation project support.	South valley innovation office and technology transfer	Closed
2018	“A Facile polyurethane/ nylon,6 blends polymers as advanced nanocompositefibrous for bone regeneration “ Role: PI	Deanship of research and Graduate studies, South valley university, Egypt	Closed
2017	“Development of Silk Fibrion/Poly (vinyl	Science and Technological	Closed

	alcohol) Blends as Advanced Composite Patches for Cardiac Tissue Engineering” Role: PI fund amount: 1 million EGP	Development Fund, Egypt	
2017	Graduation project support Grant amount.	Egyptian National telecommunication regulatory agency (NTRA),	Closed
2016-2017	Graduation project support.	South valley innovation office and technology transfer	Closed

Certifications and training national and international

2023-till now	External Reviewer for Faculties and Institutes of Higher Education		
2023	" External Review: Faculties and Institutes of Higher Education "	National Authority for Quality Assurance and Accreditation of Education (NAQAAE),	
2023	" Strategic Planning: Faculties and Institutes of Higher Education "	Egypt	
2023	" Teaching Strategies and Effective Learning: Faculties and Institutes of Higher Education "		
2023	" Exams and Students’ Assessment Systems: Faculties and Institutes of Higher Education "		
2023	" Self-Evaluation: Faculties and Institutes of Higher Education "		
2023	" Program/Course Specifications and Assessment of ILOs: Faculties and Institutes of Higher Education "		
2022	Training on : ISO56002:2019 ISO 56002 Innovation Management System, ISO 9001-2015 Quality mangment system	Ni consulting academy through South Valley University	
2021	Training of trainers (TOT) program (48 hours)	CDC center, south valley university, Egypt	
2019	Online Training on Advanced Laboratory Safety, research ethics, Biosafety, Shop and Chemical Safety, etc.	Massachusetts Institute of Technology, USA	

2019	Training in leather industry in Portugal and Romania (Process, chemical, and mechanical related to leather industry) under Erasmus + project between Europe and Egypt and Jordan fund	Institute of leather and industrial factory in both Portugal and Romania
Summer 2017	Training modules on Advanced Laboratory Safety, research ethics, Biosafety Level 1 Training, Safety for Office & General Work Areas, Research Lab, Shop and Chemical Safety, TEES Hazardous Waste Disposal, and TEES Shop & Tool Safety Course.	Texas A&M University, USA
2014-2016	Online Training on Advanced Laboratory Safety, research ethics, Biosafety, Shop and Chemical Safety, etc.	Jeonbuk National University, South Korea.
2009-2012	Training in metrology labs. With high tech. accuracy instruments –KSU, Teaching metrology Laboratory, design of manufacturing system tutorial, welding laboratory, casting laboratory and sheet metal laboratory.	king Saud university, Riyadh, Saudi Arabia
17th to 18th January 2010	Certification from Taylor Hobson precision center, England, training on measuring of surface finish and contour based on form talysurf i120 3D measuring instrument using advanced software.	King Saud university, Riyadh, Saudi Arabia.
20th to 24th January 2010,	Certification from Taylor Hobson precision center, England, training on measuring of surface finish based on the CCI 6000 measuring instrument using advanced software with NANO accuracy.	King Saud university, Riyadh, Saudi Arabia.
10 th March 2010	Certification from spectrum metrology Ltd precision center, England, training measuring of angle, alignment, flatness, parallelism, squareness and straightness based on micro alignment telescope system, talyvel 5, electro-optics analysis software, and CCD system.	King Saud University, Riyadh, Saudi Arabia.
1-4 March 2010	Attend the First Scientific Students Conference of Higher Education ministry in kingdom of Saudi Arabia.	King Saud University, Riyadh, Saudi Arabia.

11 May 2010	Member in workshop on “role of manufacturing technology to Support industry of spare parts” king Saud university.	King Saud university, Riyadh, Saudi Arabia.
May 2010	Certification attending course for six sigma green belt	King Saud University, Riyadh, Saudi Arabia.
Summer 2006	Summer training in Egyptalum Company for aluminum industry.	Qena, Egypt
December 2006	Participate with a great affair in the 4 th international conference for mechanical engineering and advanced technology for industrial production.	Assuit University Assuit, Egypt.
Summer 2005	CEMEX cement company summer training program at procurement department from.	Assuit, Egypt.

Society and membership

- Member of the Syndicate of Egyptian Engineers.
- Member of Egyptian society of polymer science and technology.
- E-membership to the Society of Chemical Industry (SCI), C&I magazine

Computer Skills & Educational Teaching Training

ICDL, Microsoft Office and Computer Maintenance. CATTIA V5 R19, solid works (CAD software) –Dynaform (sheet metal workshop simulation software) – lingo- Mastercam-Pro-Engineering- Photoshop- Origin pro-8.5- EndNote X7.

Report of Local Teaching and Training

Undergraduate academic years 2020/2021 2021/2022 2022/2023 2023/2024 2024/2025	• Manufacturing process • Manufacturing technology • Engineering drawing • Engineering economy • Stress analysis • Assembly drawing	Arab Academy for Science, Technology & Maritime Transport, Aswan Campus.2 hrs. / Week /course / semester 16 weeks. Role: Assistant professor & lecture.
Undergraduate First year /second year electrical and mining engineering	• Mechanical assembly drawing and machine construction. • Basics of Mechanical Engineering.	Qena Faculty of Engineering, Alazhar University. 2 hrs. / week /course

2018-2019	Machine design	Semester 14 weeks. Role: Assistant professor & lecture
Undergraduate First year /second year mechanical engineering	- Mechanical assembly drawing and machine construction with solidworks (first year mechanical engineering) - Stress analysis (first year mechanical engineering) - Measurements and instrumentations (second year mechanical engineering) - Production engineering and manufacturing process (first year mechanical engineering) - Theory of Machines (second year mechanical engineering) - Machine element design (second year mechanical engineering). - Materials technology I - Materials technology II - Design of production machine - Computer aided design - Advanced composite materials.	South valley university, 2 hrs. / week Semester 14 weeks. Role: Assistant & associate professor & lecture
2016-2017 2017- 2018 2020/2021- 2021/2022 2024/2025		
Postgraduate (master & doctor course)		South valley university, 2 hrs. / week Semester 14 weeks. Role: Assistant professor & lecture
2016-2017 2017- 2018		
Undergraduate First year /second year mechanical engineering	- Theory of Machines (second year mechanical engineering) - Kinematics of machines (first year mechanical engineering).	Aswan university, 2 hrs. / week Semester 14 weeks. Role: Assistant professor & lecture
2016-2017		
Undergraduate Student in mechanical engineering department	- Engineering materials - Physical metallurgy - Materials Behavior & Stress Analyses. - CNC machines. - Production Engineering - Stress Analyses - Machine Design. - Engineering materials. - Sheet metal forming. - Quality control.	South valley university, 2 hrs. / week per course Semester 14 weeks. Role: Assistant lecture
2011-2013		
Undergraduate Student in industrial engineering		King Saud university, 2 hrs. / week per course Semester 14 weeks.

department
2009-2011

- Flexible manufacturing system.
- Deformation Engineering.
- Metrology laboratory.

Role: Assistant lecture

Formally Supervised Thesis				
2022- till now	Mostafa Mohamed	MS.C	Mechanical engineering department, Faculty of engineering, south valley university.	" Development of water filtration system using ceramic membrane “
2022- till now	Ahmed Ali	MS.C		" Evaluation of hybrid prototype for industrial wastewater treatment”
2021- 2025	Saad Yassin	MS.C		Development of solar heater for heating water
2022-till now	Hassan Mubarak	MS.C		Biodegradable Mg Battery for Powering Implantable Medical Devices
2022-2025	Mostafa Mahmoud Sayed Ahmed	Ph.D	Egypt-Japan University of Science and Technology (E-JUST)	Fully Eco-friendly Dual-layered Superhydrophobic/Hydrophilic Composite Membranes for DCMD System
2017-2023	Ahmed Gamal	M.Sc.		Design of Triboelectric Device Using Aluminum Foil as Electrode
2017-2020	Hassan Abo EL-Hassan	M.Sc.	Mechanical engineering department, Faculty of engineering, south valley university	Characteristics of Fabricated Nanofibers Membrane for Groundwater Filtration Applications.
2017-2020	Mahmoud Hamdy	M.Sc.		Fabrication of Polysulfone Nanofiber Membrane with Characteristics Meets Water Purification Application.
2017-2020	Hussein Ali	PhD		Fabrication of composite polymeric /nanoparticles membrane for water desalination application
2017-2019	Mostafa Mahmoud Sayed Ahmed	M.Sc.	Mechanical engineering department, Faculty of energy, Aswan university	Tuning of biodegradation behavior of silk fibroin-based biopolymer as advanced tissue engineering scaffold

2017-2019	Mustafa Ghazali	M.Sc.	Mechanical engineering department, Faculty of engineering, south valley university	Fabrication of Electrospinning Nanofibers for tissue Engineering applications
2017-2021	Hanan shahat	Ph.D.		Electrospun superhydrophilic membrane for Under-oil wetted PVDF for gravitational oil/water flux separation
2017-2019	Jarah Fares	M.Sc.		Fabrication of Advanced Electrospun Nanofibrous Membranes for Photodegradation and Wastewater Treatment.

Society Service and Activity & consultant

2021- 2022	Consultant for Elevators, firefighting, HVAC design systems for three new established buildings in SVU campus.	South valley university
2020	Elevators engineering drawing and design revision	South valley university / Schindler Elevator company
2019	Organizing Member of 3 rd international conference on natural resources and renewable energy.	South Valley University Hurgada Egypt.
2017-2019	Establishing bioengineering and nanotechnology laboratory funded from STDF	Faculty of engineering & south valley university, Qena, Egypt.
2018/2019	Member of consultant technical investigation of elevators in Qena Governate main building.	Qena Governate
2018/2019	Member of consultant technical investigation of elevators in south valley university administration and faculties building.	South Valley University
2018	Preparing postgraduate bylaw program for production and materials design branch (Diploma & master & Ph.D).	Faculty of engineering & south valley university
2017	Head of consultant technical investigation of industrial school laboratories ministry of	Ministry of education & ministry of justice

education in Qena Governate

2017	Member of center of general service and engineering consultant	Faculty of engineering & south valley university
2017	Design of pivots for irrigation system in south valley region	Faculty of engineering & south valley university
2017	Judge Member of 2018 Intel local Science and Engineering Fair, Qena region.	Supervisor by South valley university, Qena, Egypt.
2018	Organizing Member of 2 nd international conference on natural resources and renewable energy.	South Valley University Hurgada Egypt.

Peer Reviewed Publications in print or other media

1. Mostafa Abouelsoud, Saad Yasin, **Hamouda Mousa**, Ahmed N Shmroukh, Thermal Science and Engineering Progress, Experimental evaluation and predictive modeling of flat plate solar collector performance with varying coolant mixtures, Volume 59, March 2025, 103371.
<https://www.sciencedirect.com/science/article/pii/S2451904925001611>
2. Mostafa M Sayed, **Hamouda M Mousa**, Ahmed H El-Shazly, Abdelrahman Zkria, Tsuyoshi Yoshitake, Marwa ElKady, Novel post-heat treatment green biodegradable PLA@SiO₂ nanocomposite membrane for water desalination, Journal of Environmental Chemical Engineering, Volume 12, Issue 6, December 2024, 114378.
<https://www.sciencedirect.com/science/article/pii/S2213343724025090>
3. M Selim, **Hamoud M Mousa**, Gamal T Abdel-Jaber, Nabisab Mujawar Mubarak, Ahmed Barhoum, Abdulaziz Al-Anazi, Abdalla Abdal-hay, Enhancing 3D scaffold performance for bone tissue engineering: A comprehensive review of modification and functionalization strategies, Journal of Science: Advanced Materials and Devices, Volume 9, Issue 4, December 2024, 100806
<https://www.sciencedirect.com/science/article/pii/S2468217924001370>
4. Mohamed Selim , **Hamouda M. Mousa** , G.T. Abdel-Jaber , Ahmed Barhoum , Abdalla Abdal-hay ,” Innovative designs of 3D scaffolds for bone tissue regeneration: Understanding principles and addressing challenges” , [European Polymer Journal](#) ,[Volume 215](#), 17 July 2024, 113251
<https://www.sciencedirect.com/science/article/pii/S0014305724005123>
5. Mohamed Taha , **Hamouda M. Mousa** , Husain Alfadhel, Emad Abouel Nasr , A.H. Abdelbaky Elbatran , Ahmed Nabhan, Mohamed R. El-Sharkawy, “Utilizing cellulose nanofibers to

enhance spent engine oil performance: A sustainable environmental solution” , Results in Engineering Volume 23, , September 2024, 102395.

<https://www.sciencedirect.com/science/article/pii/S2590123024006509>

6. Mostafa M Sayed, H Noby, Abdelrahman Zkria, **Hamouda M Mousa**, Tsuyoshi Yoshitake, Marwa ElKady, “Engineered eco-friendly composite membranes with superhydrophobic/hydrophilic dual-layer for DCMD system” ,*Chemosphere*, Volume 352, March 2024, 141468.<https://www.sciencedirect.com/science/article/abs/pii/S0045653524003618>
7. **Hamouda M Mousa**, Mostafa M Sayed, Ibrahim MA Mohamed, MS Abd El-sadek, Emad Abouel Nasr, Mohamed A Mohamed, Mohamed Taha,” Engineering of Multifunctional Nanocomposite Membranes for Wastewater Treatment: Oil/Water Separation and Dye Degradation” Journals of Membranes MDPI<https://www.mdpi.com/2077-0375/13/10/810>
8. Hanan S. Fahmy, Ragab Abouzeid, M. S. Abd El-sadek, G. T. Abdel-Jaber, W. Y. Ali &**Hamouda M. Mousa**, “Fabrication of polysulfone membranes by blending with polyaniline and cellulose nanocrystals: towards the effective separation of oil-in-water emulsions” , Cellulose volume 30, pages5871–5893 (2023).
<https://link.springer.com/article/10.1007/s10570-023-05237-1>
9. Ibrahim M A Mohamed , Xian-Yang Wu , Ji-Hua Zhu , Hany M. Abd El-Lateef , **Hamouda M Mousa** , Feng Xing , “Microstructure and interface analyses of novel external anode mortar incorporated calcined hydrotalcite nanoparticles towards an enhanced impressed current cathodic protection” Journal of the Taiwan Institute of Chemical Engineers, Volume 145, April 2023, 104803.
<https://www.sciencedirect.com/science/article/pii/S1876107023001323>
10. **Hamouda M Mousa**, Ahmed Gamal Arafat, Abdel Nasser Mohamed Omran, GT Abdel-Jaber, A hybrid triboelectric and piezoelectric nanogenerator with α -Al₂O₃ NPs/Doku and PVDF/SWCNTs nanofibers” Colloids and Surfaces A: Physicochemical and Engineering Aspects, Volume 656, Part A, 5 January 2023, 130403.
<https://www.sciencedirect.com/science/article/pii/S0927775722021586>
11. **Hamouda M Mousa**, Hanan S Fahmy, Gomaa AM Ali, Hani Nasser Abdelhamid, Mohamed Ateia, “Membranes for Oil/Water Separation: A Review” Journal of Advanced Materials Interfaces, wiely, 2022
<https://onlinelibrary.wiley.com/doi/full/10.1002/admi.202200557>
12. **Hamouda M. Mousa**, Mahmoud Hamdy, Mohamed A. Yassin, Mohamed M. El-Sayed Seleman, G.T. Abdel-Jaber, “Characterization of nanofiber composite membrane for high water flux and antibacterial properties” Journal of Colloids and Surfaces A: Physicochemical and Engineering Aspects, Volume 651, 20 October 2022, 129655.
<https://www.sciencedirect.com/science/article/pii/S0927775722014108>

13. **Hamouda M. Mousa**, Mustafa Ghazali Ali, Abdelrahman I. Rezk, Emad Abouel Nasr, Kamal Hany Hussein, “Development of conductive polymeric nanofiber patches for cardiac tissue engineering application” , applied polymer science , Volume139, Issue32, August 20, 2022, e52757.
<https://onlinelibrary.wiley.com/doi/full/10.1002/app.52757>
14. **Hamouda M. Mousa** *, Hanan S. Fahmy, Ragab Abouzeid, G.T. Abdel-Jaber, Ali W. Y, “Polyvinylidene fluoride-cellulose nanocrystals hybrid nanofiber membrane for energy harvesting and oil-water separation applications, **Materials letters journal**, Volume 306, 1 January 2022, 130965
<https://doi.org/10.1016/j.matlet.2021.130965>
15. Abdalla Abdal-hay*, Faheem A. Sheikh, Ahmed N Shmroukh, **Hamouda M. Mousa** , YuKyoung Kim , Saso Ivanovski, “Immobilization of Bioactive Glass @ 2D and 3D Polymer Substrates: Solving Masking and Uniform Dispersion Issues of Bioactive Glass” “**Materials & Design**, Volume 210, 15 November 2021, 110094. <https://doi.org/10.1016/j.matdes.2021.110094>
16. Ahmed Elsheikh, **Hamouda M. Mousa** , James McGregor , “Synthesis of Carbon-Supported PdIrNi Catalysts and Their Performance towards Ethanol Electrooxidation” , **Micromachines** 2021, 12(11), 1327; <https://doi.org/10.3390/mi12111327>
17. **Hamouda M. Mousa***, Jarah Fares Alenezi , Ibrahim M.A. Mohamed, Ahmed S. Yasin, Abdel-Fatah M. Hashem, Abdalla Abdal-hay, “Synthesis of TiO₂@ZnO heterojunction for dye photodegradation and wastewater treatment” **Journal of Alloys and Compounds**, Volume 886, 15 December 2021, 161169. <https://doi.org/10.1016/j.jallcom.2021.161169>
18. Hussein M. Maghrabie, **Hamouda M. Mousa**, “Thermal Performance Intensification of Car Radiator using SiO₂/Water and ZnO/Water Nanofluids “**Journal of Thermal Science and Engineering Applications** (2021),ASME. <https://doi.org/10.1115/1.4051382>
19. **Hamouda M. Mousa**, Mahmoud A. Mahmoud, Ahmed S. Yasin, and Ibrahim M. A. Mohamed, “Polycaprolactone tridentate ligand corrosion inhibitors coated on biodegradable Mg implant “ , **Journal of Coatings Technology and Research**, (2021).
<https://link.springer.com/article/10.1007/s11998-021-00478-w>
20. **Hamouda M. Mousa** *,Kamal Hany Hussein,Mostafa M. Sayed ,Mohamed K. Abd El-Rahman, andHeung-Myong Woo “Development and Characterization of Cellulose/Iron Acetate Nanofibers for Bone Tissue Engineering Applications” **Polymers Journal**.<https://www.mdpi.com/2073-4360/13/8/1339>
21. **Hamouda M.Mousa**, Husain Alfadhel, and Emad Abouel Nasr “Engineering and Characterization of Antibacterial Coaxial Nanofiber Membranes for Oil/Water Separation” “**Polymers Journal**.
<https://www.mdpi.com/2073-4360/12/11/2597>
22. **Hamouda M.Mousa**, HusainAlfadhel, MohamedAteia, GomaaA.A, G.T.Abdel-Jaber, “Polysulfone-Iron Acetate/Polyamide Nanocomposite Membrane for Oil-Water Separation” “**Environmental Nanotechnology**,

Monitoring & Management.

<https://www.sciencedirect.com/science/article/pii/S2215153220300544>

23. Mustafa GhazaliAli[¥], **Hamouda M.Mousa[¥]**, FannyBlaudez, M.S.Abd El-sadek, M.A.Mohameda, G.T.Abdel-Jaber, AbdallaAbdal-hay, Saso Ivanovsk “Dual Nanofiber Scaffolds Composed of Polyurethane-Gelatin /Nylon 6- Gelatin for Bone Tissue Engineering “Colloids and Surfaces A: Physicochemical and Engineering Aspects..([¥]= **Equal contribution**).
- <https://www.sciencedirect.com/science/article/abs/pii/S0927775720304106>
24. **Hamouda M.Mousa**, Kamal HanyHussein, Mostafa M.Sayed, M.R.El-Aassar, Ibrahim M.A.Mohamed, Ho-HyunKwak, Heung-MyongWoo, AbdallaAbdal-hay “Development of biocompatible tri-layered nanofibers patches with endothelial cells for cardiac tissue engineering” European polymer journal.
- <https://www.sciencedirect.com/science/article/abs/pii/S0014305720302573>
25. Mostafa M. Sayed[¥], **Hamouda M. Mousa*[¥]**, M. R. El-Aassar, AbdallaAbdal-hay, Montasser M. Dewidar, “Enhancing mechanical and biodegradation properties of polyvinyl alcohol/silk fibroin nanofibers composite patches for Cardiac Tissue Engineering” Materials Letters Jouranl .([¥]= **Equal contribution**).
- <https://www.sciencedirect.com/science/article/pii/S0167577X19311255#!>
26. Abdalla Abdal-hay, **Hamouda M. Mousa**, Mohamed Taha, Michal Bartnikowski, Mohammad L. Hassan, Martin M Brandel, Montasser Dewidar, Saso Ivanovski “Engineering of PCL/MWCNTs Electrical Composite Nanofibers for Tissue EngineeringApplications”, “ Ceramic International journal” <https://www.sciencedirect.com/science/article/pii/S0272884219310314>
27. **Hamouda M. Mousa**, John R. Aggas, and Anthony Guiseppi-Elie, “Electropolymerization of aniline and (N-Phenyl-O-phenylenediamine) for Glucose Biosensor Application”, materilas letters journal.
- <https://doi.org/10.1016/j.matlet.2018.12.012>
28. Abdelrahman I. Rezk, Arathyram Ramachandra Kurup Sasikala ,Amin Ghavami Nejad, **Hamouda M. Mousa**, Young Min Oh, Chan Hee Park, and Cheol Sang Kim, “Strategic design of a mussel-inspired in situ reduced Ag/Au-nanoparticle coatings on Magnesium Alloy for enhanced viability, antibacterial property and decelerated corrosion rates for degradable implant applications”.
- <https://www.nature.com/articles/s41598-018-36545-3> Abdelrahman I. Rezk , **Hamouda M. Mousa**, Chan Hee Park, and Cheol Sang Kim, “Composite PCL/HA/ simvastatin electrospun-nanofiber coating on biodegradable Mg alloy for orthopedic implant application.”, **Journal of Coatings Technology and Research, springer**
- <https://link.springer.com/article/10.1007/s11998-018-0126-8>
29. **Hamouda M. Mousa**, Abdalla Abdal-hay, Michal Bartnikowski, Ibrahim M.A. Mohamed, Ahmed S. Yasin, Chan Hee Park, Sašo Ivanovski, Cheol Sang Kim “A Multifunctional Zinc Oxide/Poly(Lactic Acid)

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Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings TV.

1. Conference chairperson for " 3rd Thenbes Technological University conference for Young technologist" 26-27, february 2025.
2. Session moderator “**12 th International Conference on Mathematics and Informatics Sciences "Cyber Security and Artificial Intelligence"10-14 November 2024. Luxor, Egypt.**
3. Conference chairperson for " 2nd Thenbes Technological University conference for Young technologist" 26-28, february 2024.
4. Conference chairperson for " 1st Thenbes Technological University conference for Young technologist" 15-16, March 2023.
5. Hamouda M. Mousa, organizing community of The Seventh Early Career Researchers Conference for Basic Sciences, Engineering, and Computer and Information Science(ECC-SEC 2022).
6. **Hamouda M. Mousa** attending, Scimago 2022 Research Centers Ranking Webinar, Researcher Academy On Campus , at MENA region Research Centers, on Tuesday 22 March, 2022. Online by Elsevier.
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Referees

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