|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Detailed CV** | | | | | | | | | | | | | | | | | | | | | | | | |
| **Date Prepared:** | | | | | | | | **October 2024**  **Hamouda M Mousa, Ph.D, Associate Professor**  **Mechanical Engineering Department, Faculty of Engineering, South Valley University, 83523, Qena, Egypt. Dean of Faculty of Technological Industry and Energy, Thebes Technological University, Luxor, Egypt.** | | | | | | | | | | | | | | | | |
| **Name:** | | | | | | | |
| **Office Address:** | | | | | | | |
| **Home Address:** | | | | | | | | **Qena, Egypt** | | | | | | | | **Cell Phone& WhatsApp:** | | | | | | | **(+2)01000444958** | |
| **Work E-Mail:** | | | | | | | | [**hmousa@eng.svu.edu.eg**](mailto:hmousa@eng.svu.edu.eg)**),** [**elkhaters@gmail.com**](mailto:elkhaters@gmail.com) | | | | | | | | | | | | | | | | |
| **Work FAX:** | | | | | | | | **+2965339497** | | | | | | | | | **Place/date of Birth:** | | | | | | **Qena –Egypt, Feb. 1985** | |
| **Researcher ID:** | | | | | | | | **L-7893-2014** | | | | | | | | | **ORCID ID:** | | | | | | **0000-0003-0087-1458** | |
| **Scientific profiles:** | | | | | | | | | | | | | | | | | | | | | | | | |
| Research gate: | | | | | | | | | | [**https://www.researchgate.net/profile/Hamouda\_Mousa**](https://www.researchgate.net/profile/Hamouda_Mousa) | | | | | | | | | | | | | | |
| Google scholar: | | | | | | | | | | [**https://scholar.google.com/citations?user=eq482DsAAAAJ&hl=en**](https://scholar.google.com/citations?user=eq482DsAAAAJ&hl=en) | | | | | | | | | | | | | | |
| Homepage: | | | | | | | | | | [**http://www.svu.edu.eg/arabic/staff/application/result.aspx?id\_num=7777**](http://www.svu.edu.eg/arabic/staff/application/result.aspx?id_num=7777) | | | | | | | | | | | | | | |
| ORCID: | | | | | | | | | | [**https://orcid.org/0000-0003-0087-1458**](https://orcid.org/0000-0003-0087-1458) | | | | | | | | | | | | | | |
| Scopus : | | | | | | | | | | [**https://www.scopus.com/authid/detail.uri?authorId=56287921800**](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 (Prof. Ellen Roche) | | | |
| Fulbright visiting scholar  Summer 2017 | | | | | | Fulbright Commission Junior Faculty Development Program | | | | | | | | | Department of Biomedical Engineering | | | | | | 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 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 &Member | | | | | | | | | | Curriculum design of both mechanical design and production programs, and industrial engineering and manufacturing programs. | | | | | | | | | Faculty of Engineering, 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 2019/2020Fulbright 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 4th 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 2nd 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 alcohol) Blends as Advanced Composite Patches for Cardiac Tissue Engineering” Role**: PI fund amount: 1 million EGP** | | | | | | | | | | | | | | | | Science and Technological Development Fund, Egypt | | | | | | | Closed |
| 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 | | | | | | | | | | | | | | | National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Egypt | | | | |
| 2023 | | | | | * " External Review: Faculties and Institutes of Higher Education " | | | | | | | | | | | | | | |
| 2023 | | | | | * " Strategic Planning: Faculties and Institutes of Higher Education " | | | | | | | | | | | | | | |
| 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 January2010 | | | | | 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. | | | | |
| 10th 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 4th 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  2020/2021  2021/2022  2022/2023 | | | | | | | | | * Manufacturing process * Manufacturing technology * Engineering drawing * Engineering economy | | | | | | | | | 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  2018-2019 | | | | | | | | | * Mechanical assembly drawing and machine construction. * Basics of Mechanical Engineering. * Machine design | | | | | | | | | Qena Faculty of Engineering,  Alazhar University.  2 hrs. / week /course  Semester 14 weeks. Role: Assistant professor & lecture | | | | | | |
| Undergraduate  First year /second year mechanical engineering  2016-2017  2017- 2018  2020/2021-2021/2022 | | | | | | | | | * Mechanical assembly drawing and machine construction with solidworks (first year mechanical engineering) | | | | | | | | | South valley university,  2 hrs. / week  Semester 14 weeks.  Role: Assistant professor & lecture | | | | | | |
| * 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). | | | | | | | | |
| Postgraduate  (master & doctor course)  2016-2017  2017- 2018 | | | | | | | | | * Materials technology I | | | | | | | | | South valley university,  2 hrs. / week  Semester 14 weeks.  Role: Assistant professor & lecture | | | | | | |
| * Materials technology II | | | | | | | | |
| * Design of production machine | | | | | | | | |
| * Computer aided design | | | | | | | | |
| * Advanced composite materials. | | | | | | | | |
| Undergraduate  First year /second year mechanical engineering  2016-2017 | | | | | | | | | * Theory of machines (second year mechanical engineering) | | | | | | | | | Aswan university,  2 hrs. / week  Semester 14 weeks.  Role: Assistant professor & lecture | | | | | | |
| * Kinematics of machines (first year mechanical engineering). | | | | | | | | |
| Undergraduate  Student in mechanical engineering department  2011-2013 | | | | | | | | | * Engineering materials * Physical metallurgy * Materials Behavior & Stress Analyses. * CNC machines. * Production Engineering * Stress Analyses * Machine Design. | | | | | | | | | South valley university,  2 hrs. / week per course  Semester 14 weeks.  Role: Assistant lecture | | | | | | |
| Undergraduate  Student in industrial engineering department  2009-2011 | | | | | | | | | * Engineering materials. * Sheet metal forming. * Quality control. * Flexible manufacturing system. * Deformation Engineering. * Metrology laboratory. | | | | | | | | | King Saud university,  2 hrs. / week per course  Semester 14 weeks.  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- till now | | | 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-till now | | | Mostafa Mahmoud Sayed Ahmed | | | | | | | | | Ph.D | | Egypt-Japan University of Science and Technology  (E-JUST)  Mechanical engineering department, Faculty of engineering, south valley university | | | 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. | | 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 Electrospum Nanofibrous Membranes for Photodegradation and Wastewater Treatment. | | | | | | | |
| **Society Service and activity& consultant** | | | | | | | | | | | | | | | | | | | | | | | | |
| **2021- 2022** | | | | | | | Consultant for Elevators, firefighting, HVAC design systemsfor three new established building in SVU campus. | | | | | | | | | | | South valley university | | | | | | |
| **2020** | | | | | | | Elevators engineering drawing and design revision | | | | | | | | | | | South valley university / Schindler Elevator company | | | | | | |
| **2019** | | | | | | | Organizing Member of 3rd 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 education in Qena Governate | | | | | | | | | | | Ministry of education  & ministry of justice | | | | | | |
| **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 2nd international conference on natural resources and renewable energy. | | | | | | | | | | | South Valley University Hurgada Egypt. | | | | | | |
| **Peer Reviewed Publications in print or other media** | | | | | | | | | | | | | | | | | | | | | | | | |
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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**](https://doi.org/10.1115/1.4051382) 3. **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>   1. **Hamouda M. Mousa** \*,Kamal Hany Hussein,Mostafa M. Sayed ,Mohamed K. 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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>   1. **Hamouda M. Mousa**,Abdalla Abdal-hay, Michal Bartnikowski, Ibrahim M.A. Mohamed, Ahmed S. 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Mousa**](http://www.sciencedirect.com/science/article/pii/S0021979716305331), [In-Gi Kim](http://www.sciencedirect.com/science/article/pii/S0021979716305331), [Jeong In Kim](http://www.sciencedirect.com/science/article/pii/S0021979716305331), [Madhav Prasad Neupane](http://www.sciencedirect.com/science/article/pii/S0021979716305331),[Chan Hee Park](http://www.sciencedirect.com/science/article/pii/S0021979716305331), [Cheol Sang Kim](http://www.sciencedirect.com/science/article/pii/S0021979716305331),” High-performance glucose biosensor based on chitosan-glucose oxidase immobilized polypyrrole/Nafion/functionalized multi-walled carbon nanotubes bio-nanohybrid film” **Journal of Colloid and Interface Science.**   <http://www.sciencedirect.com/science/article/pii/S0021979716305331>   1. Bishnu Kumar Shrestha, **Hamouda M Mousa**, Arjun Prasad Tiwari, Sung Won Ko, Chan Hee Park, Cheol Sang Kim” Development of polyamide-6, 6/chitosan electrospun hybrid nanofibrous scaffolds for tissue engineering application”. **Carbohydrate Polymers**   <http://www.sciencedirect.com/science/article/pii/S0144861716303472>   1. **Hamouda M. Mousa**, Kamal H. Hussein, Ahmed A. Raslan, Joshua Lee, Heung M. Woo, Chan Hee Park, and Cheol Sang Kim, “Amorphous apatite thin film formation on a biodegradable Mg alloy for bone regeneration: strategy, characterization, biodegradation, and *in vitro* cell study” , **RSC Advances.**   <http://pubs.rsc.org/is/content/articlelanding/2016/ra/c5ra25306c/unauth#!divAbstract>   1. 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Mousa**, [Azizuddin Khan](http://www.sciencedirect.com/science/article/pii/S0927775714005184), [Pablo Vanegas](http://www.sciencedirect.com/science/article/pii/S0927775714005184), [Ju Hyun Lim](http://www.sciencedirect.com/science/article/pii/S0927775714005184),”TiO2 nanorods coated onto nylon 6 nanofibers using hydrothermal treatment with improved mechanical properties “.**Colloids and Surfaces A: Physicochemical and Engineering Aspects.Volume 457, 5 September 2014, Pages 275–281.**<http://www.sciencedirect.com/science/article/pii/S0927775714005184> | | | | | | | | | | | | | | | | | | | | | | | | |
| **Book chapters** | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings TV.** | | | | | | | | | | | | | | | | | | | | | | | | |
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| **1.Hamouda M Mousa**, Enhanced biocompatibility and controlled biodegradability of Mg alloy with osteoconductive surface layers”, Ph.D. Thesis, Jeonbuk National University, South Korea, 2016.  **2. Hamouda M Mousa**, “Computer Aided Process Planning for Sheet Metal in Automotive Industry” M.Sc. **King Saud university**, Riyadh, Saudi Arabia, 2012. | | | | | | | | | | | | | | | | | | | | | | | | |
| **Referees** | | | | | | | | | | | | | | | | | | | | | | | | |
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