



CURRICULUM VITAE

Dr. Mamdouh Ibrahim Elamy Morsy

*Department of Industrial Engineering,
College of Engineering,
Northern Border University, Arar, Saudi Arabia*



• ***Personal Information***

- **Date of Birth:** 04/01/1976
- **Nationality:** Egyptian
- **Marital Status:** Married, (3 children)
- **Religion:** Muslim
- **Tel.:**
 - Mob: +966590806923, +966581169606, +201222502683, +201222502684.
 - Fax: +2 048 2238984
- **Email:**
 - mamdouhelimi@yahoo.com,
 - mamdouhelimi2017@Gmail.com,
 - Mamdouh.Morsi@nbu.edu.sa

• ***Current Occupation***

- Associate Professor in the Department of Production Engineering and Mechanical Design, Faculty of Engineering, Menoufia University, Egypt.
- Associate Professor in the Department of Industrial Engineering, College of Engineering, Northern Border University, Kingdom of Saudi Arabia.

• ***Education and Academic Degrees***

- Degree: Ph.D. in Mechanical Design and Applied Mechanics (Dynamics of Machines)
- Year: June (2014)
- Faculty: Faculty of Engineering
- University: Minoufiya University
- Thesis Title: "Dynamic Analysis of a Rotating Composite Shaft".

- Degree: M.Sc. in Mechanical Design and Applied Mechanics
- Year: July (2007)
- Faculty: Faculty of Engineering
- University: Minoufiya University
- Thesis Title: "Dynamic Analysis of an Adhesive Bonded Joint for Composite Structures".

- Degree: B.Sc. in Production Engineering and Mechanical Design
- Year: May (2001)
- Faculty: Faculty of Engineering
- University: Minoufiya University

• ***Language & Computer Skills***

- English: very good (Reading/writing/speaking).
- ICDL Certificate.
- Programming Languages: FORTRAN and MATLAB.
- Finite Element Software's: ANSYS, SolidWorks and MATLAB.

• ***Teaching Experience***

- My teaching experience focuses on the specialty of mechanical engineering in the field of machine dynamics and robotics.
- Also, my teaching experience in industrial engineering specializes in the fields of industrial control & automation, and automation, & industrial robots.
- From 2016 until now: Assistant Professor in Industrial Engineering, Northern Border University, Kingdom of Saudi Arabia.
- From 2004 - 2007: Teaching assistant in the Department of Production Engineering and Mechanical Design, Faculty of Engineering, Menoufia University, Egypt.
- From 2007 - 2014: Assistant lecturer in the Department of Production Engineering and Mechanical Design, Faculty of Engineering, Menoufia University, Egypt.
- From 2014 - 2024: Assistant Professor, Department of Production Engineering and Mechanical Design, Faculty of Engineering, Menoufia University, Egypt.
- From 30/04/2024: Associate Professor, Department of Production Engineering and Mechanical Design, Faculty of Engineering, Menoufia University, Egypt.

• ***Teaching and Research Topics***

- Applied Mechanics.
- Mechatronics.
- Theory of Machines.
- Dynamics of Machines.
- Mechanical Design.
- Machine Tool Design.
- Engineering Drawing.
- Mechanical Vibration.
- Material Handling System Design.
- Automatic Control.
- Production Engineering.
- Kinematics of Mechanisms and Robotics.
- Facilities Planning and Design.
- Human Factor Engineering.
- Engineering Mechanics.
- Maintenance and replacement policies.
- Materials Engineering.
- Modeling and Simulation of Dynamic Systems.
- Industrial Quality Control.
- Control and Industrial Automation.
- Probabilities and Statistics.

- Material handling and packing.
- Automation and robotics.
- Industrial robots.
- Machine dynamics.
- Engineering ethics.
- Industrial safety engineering.
- Dynamics of Mechanisms and Robotics.
- Special topics in industrial engineering.
- Computer Integrated Manufacturing.
- B. Sc project.
- Safety Engineering and Management.
- Resilience and Crisis Management.
- Safety Technology and Innovation.
- M. Sc. Master.

• *Experience Certificates*

- Modern teaching strategies, Deanship of University Education Development, Northern Border University, from 27-28/02/2022 (10 hr).
- Formulating and measuring learning outcomes for academic programs, Deanship of University Education Development, Northern Border University, remotely, on 22/05/2022 (4 hr).
- Attending a workshop on evaluation methods according to the fields of learning, Deanship of University Education Development, Northern Border University, remotely, on 15/12/2022 (5 hr).
- Attending an electronic course on how to detect the impact factor and classify international journals using the digital library, Deanship of Library Affairs, Northern Border University, remotely, on 03/02/2021 (2 hr).
- Attending a workshop on learning outcomes in line with the National Qualifications Framework, Deanship of University Education Development, Northern Border University, remotely, on 08/12/2022 (5 hr).
- Attending a program on self-evaluation measures, performance indicators and benchmark comparisons, Deanship of University Education Development, Northern Border University, on 23/05/2022 (5 hr).
- Attending a training course on the description of (Programs, Courses, and Field experiences), Deanship of University Education Development, Northern Border University, on 14-16/04/2020 (6 hours).
- Attending a training course on (course report, field experience report, program annual report), Deanship of University Education Development, Northern Border University, on 21-23/04/2020 (6 hours).

• *Certificates of Appreciation*

- Participation in the Second Student Guidance Forum, University Vice Presidency for Academic Affairs, Jazan University, remotely, on 29/03/2021.
- A certificate of appreciation for providing requirements and evidence and participating in academic accreditation sessions, the University Vice President for Development, Quality and Community Service, Northern Border University.

- A certificate of appreciation for participating in quality work for the industrial engineering program to obtain academic accreditation. ABET, President of the University. Northern Border University.
- A certificate of appreciation for participating in quality work for the industrial engineering program to obtain academic accreditation. ABET, Dean of the College of Engineering. Northern Border University.
- Certificate for participation in implementing a training program entitled (Occupational Safety and Health Management) as a community service on 9/19/2024 for one day at a rate of two hours, Northern Borders University, University Agency for Postgraduate Studies and Scientific Research.

• ***Scientific Theses***

- Mechanical and Dynamic Properties of Hybrid and Non-Hybrid Polymeric Composites. *Menoufia University – Egypt* (2017).
- ANFIS controller design for Early Warning Systems: Smoke Detector and Monitoring System for Avoiding Fire Outbreak. - *Northern Border University - Kingdom of Saudi Arabia* (2026).
- Identifying fire hazards in business buildings according to the Saudi Building Code classification- *Northern Border University - Kingdom of Saudi Arabia* (2026).
- Investigation of the Effectiveness of Risk Management Frameworks in Reducing Workplace Accidents. - *Northern Border University - Kingdom of Saudi Arabia* (2026).
- Disasters in Arar, Saudi Arabia: Assessing the Impacts of Floods. - *Northern Border University - Kingdom of Saudi Arabia* (2026).
- Analysis of Human Factors Affecting Patient Safety in Healthcare Settings: A Manual for Improving Work Systems in the Medical Sector -*Northern Border University - Kingdom of Saudi Arabia* (2026).
- Machine Learning-Based Threat Detection and Risk Assessment for Industrial Control Systems. -*Northern Border University - Kingdom of Saudi Arabia* (2026).
- Functional Safety of Systems in Multi-Chemical Processes: A Case Study of Safety Standard Deficiencies. - *Northern Border University - Kingdom of Saudi Arabia* (2026).
- MSc Research Proposal: An Integrated Risk Analysis Framework for Contamination Events in Urban Drinking Water Distribution Networks. -*Northern Border University - Kingdom of Saudi Arabia* (2026).

• ***Participating committees***

- Member of the Board of the Department of Industrial Engineering, College of Engineering, Northern Border University
- Member of the Program Committee of the Department of Industrial Engineering, Northern Border University.
- Member of the Academic Schedules Committee for the Department of Industrial Engineering from 2016 to 2018.
- Member of the Student Guidance Committee for the Department of Industrial Engineering from 2016 to 2018.
- Member of the committee preparing exam schedules for the Department of Industrial Engineering from 2019 until now.
- Member of the Laboratories and Learning Resources Committee, Department of Industrial Engineering, Northern Border University.
- Member of the Quality and Academic Accreditation Committee, Department of Industrial Engineering, Northern Border University.

- Member of the Postgraduate Studies Committee of the Department of Industrial Engineering, Northern Border University.
- Member of the Academic and Student Activities Committee, Department of Industrial Engineering, Northern Border University.
- Member of the Scientific Research Committee of the Department of Industrial Engineering, Northern Border University.
- Member of the Performance Measurement Committee, College of Engineering, Northern Border University.
- Head of the Equipment and Laboratories Committee, College of Engineering, Northern Border University. From May 1, 2026.
- Member of the Development and Quality Committee of the Master of Science in Safety Engineering and Risk Management program.
- Chair of the Equipment and Laboratories Committee – College of Engineering – Northern Border University (May 19, 2026 – Present).

• ***Community Service***

- Participation in implementing a training program entitled (***Occupational Safety and Health Management***) as a community service on 9/19/2024 for one day at a rate of two hours, Northern Borders University, University Agency for Postgraduate Studies and Scientific Research.
- Participation in implementing a training program entitled (***Industrial Robotics***) as a community service on 12/12/2024 for one day at a rate of two hours, Northern Borders University, University Agency for Postgraduate Studies and Scientific Research.

• ***Participated conferences***

- 12th International Conference on APPLIED MECHANICS & MECHANICAL ENGINEERING, Military Technical College, May 29-31, **2007**.
- 13th International Conference on APPLIED MECHANICS & MECHANICAL ENGINEERING, Military Technical College, May 27-29, **2008**.
- The 4th International Conference Mechatronic Systems and Materials, MSM 2008, Bialystok, Poland, July, 14-17, 2008.
- 13th Conference on Fracture Mechanics - ***Opole, POLAND***, 05 – 07 September **2011**.
- 14th International Conference on AEROSPACE SCIENCES & AVIATION TECHNOLOGY ASAT 14 – Military Technical College, Cairo, EGYPT, May 24 – 26, 2011.
- 15th International Conference on AEROSPACE SCIENCES & AVIATION TECHNOLOGY ASAT 15 – ***Military Technical College***, Cairo, EGYPT, May 28 – 30, **2013**.
- 6th International Conference on Trends in Mechanical and Industrial Engineering (ICTMIE'2015), Sept. 13-14, 2015 Dubai (UAE).
- The International Conference of Engineering Sciences& Applications, Aswan, Egypt, January, 28-31, 2016.
- ICEEP 2018: 20th International Conference on Environmental Engineering and Protection, January, 22-23, 2018 at Dubai, (UAE).

• Recent Publications

1. Hamada, A. A., Ghoneam, S. M. and **EL-Elamy, M. I.**, "Dynamic Analysis of an Adhesive Bonded Joint for Composite Structures", 12th International Conference on APPLIED MECHANICS & MECHANICAL ENGINEERING, Military Technical College, May 29-31, **2007**.
2. Ghoneam, S. M., Hamada, A. A. and EL-Elamy, M. I., "Dynamic Response of an Adhesive Bonded Joint for Composite Structure", 13th International Conference on APPLIED MECHANICS & MECHANICAL ENGINEERING, Military Technical College, May 27-29, 2008.
3. Ghoneam, S. M., Hamada, A. A. and **EL-Elamy, M. I.**, " Experimental and Analytical Investigations of the Dynamic Analysis of Adhesively Bonded Joints for Composite Structures" The 4th International Conference Mechatronic Systems and Materials, MSM **2008**, Bialystok, Poland, July, 14-17, **2008**.
4. S. M. Ghoneam, A. A. Hamada and **M. I. EL-Elamy**, " Dynamic Analysis of Cracked Composite Shafts", 13th Conference on Fracture Mechanics - **Opole, POLAND**, 05 – 07 September **2011**.
5. S. M. Ghoneam, A. A. Hamada and **M. I. EL-Elamy**, " Dynamic Analysis of a Rotating Composite Shaft", 14th International Conference on AEROSPACE SCIENCES & AVIATION TECHNOLOGY ASAT 14 – **Military Technical College**, Cairo, EGYPT, May 24 – 26, **2011**.
6. S. M. Ghoneam, A. A. Hamada and **M. I. EL-Elamy**, "The Effect of Stacking Sequence and Coupling Mechanisms on Eigen-Nature of Composite Shafts", 15th International Conference on AEROSPACE SCIENCES & AVIATION TECHNOLOGY ASAT 15 – **Military Technical College**, Cairo, EGYPT, May 28 – 30, **2013**.
7. K. M. Khader, **M. I. EL-Elamy**, "Using Composite Materials for Improving Wind Turbine Performance", 6th International Conference on Trends in Mechanical and Industrial Engineering (ICTMIE'2015), **Sept. 13-14, 2015** Dubai (UAE).
8. Y. Rihan, S. Ayyad, and **M. I. Elamy**, "A Study on the Residual Stresses in Resistance Spot Welding", *I-manager's Journal on Material Science*, Vol. 3 1 No. 2 1 July - September **2015**
9. M. S. EL-Wazerya, **M. I. Elamy**, and S. H. Zoalfakar, "Experimental Investigation on the Mechanical Behavior of Glass Fiber Reinforced Polyester Resin Composite" *The International Conference of Engineering Sciences& Applications, Aswan, Egypt, January, 28-31, 2016*.
10. A. M. Easa and **M. I. Elamy**, "Influence of Drilling Parameters and Volume Fraction Ratios on Hole Quality of (GFRP) Composites", *International Journal of Advanced Engineering and Global Technology*, Vol-04, Issue-03, 1904 – 1911, May, **2016**.
11. A. M. Easa, **M. I. Elamy** and A. S. Esia, "Analysis of Surface Integrity in Drilling of GFRP Composite When Using Two Types of Cutting Tools and Different Volume Fraction Ratios ", *International Journal of Advanced Engineering and Global Technology*, Vol-04, Issue-04, 2080 – 2087, August, **2016**.
12. A. M. Easa, **M. I. Elamy** and A. S. Esia,, " Analyzing the Effect of Machining Parameters and Fiber Orientation on the Surface Roughness during Drilling of (GFRP) Composites", *International Journal of Advanced Engineering and Global Technology*, Vol-02, Issue-05, 1523-1531, March, **2017**.
13. N. M. Mohamed, M. S. EL-Wazery, **M. I. EL-Elamy**, S. H. Zoalfakar, " Mechanical and Dynamic Properties of Hybrid Composite laminates", *International Journal of Advanced Engineering and Global Technology*, Vol-05, Issue-03, 1703-1725, May, **2017**.
14. MS El-Wazery, **MI El-Elamy**, SH Zoalfakar, "Mechanical properties of glass fiber reinforced polyester composites", *International journal of applied science and engineering*, 14 (3), 121-131, **2017**.

15. K. M. Khader, **M. I. EL-Elamy**, O. A. Nada, " Multi-criteria Selection and Improvement of Effective Design for Generating Power from Sea Waves", **ICEEP 2018: 20th International Conference on Environmental Engineering and Protection**, January, 22-23, **2018** at Dubai, (UAE).
16. K. M. Khader, **M. I. EL-Elamy**, " Power and Wear Reduction Using Composite Links of Crank-Rocker Mechanism with Optimum Transmission Angle", **ICEEP 2018: 20th International Conference on Environmental Engineering and Protection**, January, 22-23, **2018** at Dubai, (UAE).
17. O S, Hussiena, **M I, Elamy**, " Optimal Placement of Dampers on Multistorey Frames Using Dynamic Analysis ", *Strength of materials*, Vol. 3, 158-168, **2020**.
18. K. M. Khader, Shehab A. Mansour, Ibrahim M. El Fahham and **Mamdoh I. Elimy** , "Dynamic Performance Enhancement of Vertical Wind Turbine Using Composite Blades Reinforced by Zinc-Oxide Nanoparticles", *MANSOURA ENGINEERING JOURNAL*, (MEJ), *Vol-45, Issue-03*, 39-49, **2020**.
19. M. Gamila, W.M. Faroukb and **Mamdouh I. Elamy**, "Effect of Friction Stir Processing Parameters on the Mechanical and Dynamic Responses of AA5052-H32", *ENGINEERING RESEARCH JOURNAL (ERJ)*, *Vol-51, Issue-02*, 188-199, **2022**.
20. **Mamdouh I. Elamy**, "Dynamic Analysis of Rotating Continuous Drive Friction Welding Joints of Al alloy (6061AA) ", *ERJ Engineering Research Journal Faculty of Engineering Menoufia University*, Vol. 46, No. 1, pp. 43-53, January **2023**.
21. **Mamdouh I. Elamy**, "Improving the Dynamic Performance of the Crank-Rocker Mechanism Using Composite Links", *ERJ Engineering Research Journal Faculty of Engineering Menoufia University*, Vol. 46, No. 4, pp. 471-484, October **2023**.
22. Mohamed Fterich, **Mamdouh Ibrahim Elamy**, Ezzeddine Touti, and Hatem Bentaher, "Experimental and numerical study of tomatoes drying kinetics using solar dryer equipped with PVT air collector", *Engineering Science and Technology, an International Journal*, Vol. 47, 101524, **2023**.
23. Norah A. M. Alsaif, Hanan Al-Ghamdi, Z. Y. Khattari, M. S. Shams, R. A. Elsad, M. S. Sadeq, Adel M. El-Refaey, Y. S. Rammah, and **Mamdouh I. Elamy**, "Experimental and simulation investigation of the effects of Er³⁺ ions on the physico-mechanical, optical, mechanical, and radiation-protective characteristics of B₂O₃-CaO-Bi₂O₃ glasses", *Journal of the Australian Ceramic Society*, Vol. 60, pp. (207–220), **2024**.
24. Hanan Al-Ghamdi, Norah A.M. Alsaif, Z.Y. Khattari, Yasser Rammah, R.A. Elsad, Zakia Alhashem, Hasna Alali, Ashraf Farha & **Mamdouh I. Elamy**, "Mechanical, electrical properties and gamma-rays buildup factors of CaO-Li₂O-B₂O₃-As₂O₃ glasses: Significant role of As₂O₃", *Journal: Radiation Physics and Chemistry*, Vol. 215, 111355, February **2024**.
25. Majed Masmali, **Mamdouh I. Elimy**, Mohamed Fterich, Ezzeddine Touti and Ghulam Abbas, "Comparative Studies on Load Frequency Control with Different Governors connected to Mini Hydro Power Plant via PSCAD Software", *Engineering, Technology & Applied Science Research*, Vol. 14, No. 1, (12975-12983), **2024**.
26. Gharam A. Alharshan, Ahmed M. A. El-Seidy, **Mamdouh I. Elamy**, Islam M. Nabil, Adel M. El-Refaey, R. A. Elsad, M. S. Shams, A. M. Abdelghany, and Y. S. Rammah, "*CeO₂ additive to bismo-borate glasses: synthesis, structure, physical characteristics, and radiation protection competence*". *Journal of Materials Science: Materials in Electronics*, Vol. 35:862, pp. (1-14), **2024**.
27. W.M. Farouk, Ahmed Mohamed, Wagih Marzouk, **Mamdouh I. Elamy**, Faiz Abo ghriba, Ahmed Abu-Oqail, Mohamed Abu-Okail. "Prediction analysis and an experimental investigation of precision process of CO₂-laser micro-turning for Armox 500T accompanied via N₂ Gas", *Optics & Laser Technology*, Vol. 177, 111093, **October 2024**.

28. **Mamdouh I. Elamy**, Wissam H. Alawee, Ali Basem, Suha A. Mohammed, A.S. Abdullah, Hasan Sh. Majdi, T. E. M. Atteya, Z.M. Omara, M.M. Younes, "*An experimental comparison for thermos-economic performance of five different designs of solar stills*", *Case Studies in Thermal Engineering*, Vol. 59, 104561, **July 2024**.
29. **Mamdouh I. Elamy**, Fadl A. Essa, Ali Basem, Suha A. Mohammed, Wissam H. Alawee, A.S. Abdullah, Azher M. Abed, Z.M. Omara, W.M. Farouk, "*Novel cylindrical solar still integrated with parabolic solar concentrators, vapor extraction fan, and nano-enhanced phase change material*", *Desalination journal*, Vol. 585, **2024**.
30. Gharam A. Alharshan, **Mamdouh I. Elamy**, Shimaa Ali Said, A.M.A. Mahmoud, Ragab A. Elsad4, Nasra M. Ebrahim, "*Dielectric and gamma ray shielding properties of lead doped Lithium-zinc-borosilicate*", *Journal of Electronic Materials*, Vol. 53 (9), pp. 5671-5681, **2024**.
31. Gharam A. Alharshan, **Mamdouh I. Elamy**, Nasra M. Ebrahim, A.M.A. Mahmoud, Y.S. Rammah, R.A. Elsad, M. Hamed Misbah, Shimaa Ali Said, "*Physical, structural, and optical characteristics of the glasses system based on lanthanum-doped phosphate*", *Optical and Quantum Electronics*, Vol. 56 (1179), **2024**.
32. **Mamdouh I. Elamy**, Suha A. Mohammed, Ali Basem, Wissam H. Alawee, A.S. Abdullah, A. Aldabesh, Hasan Sh Majdi, Z.M. Omara, Fadl A. Essa, "*Enhancing coiled solar still performance with vertical wick distiller, reflectors, nanomaterial-infused PCM, and condenser integration*", *Case Studies in Thermal Engineering*, Vol. 61, **2024**, 104912.
33. **Mamdouh I. Elamy**, Suha A. Mohammed, Ali Basem, Wissam H. Alawee, A. Aldabesh, A.S. Abdullah, Hasan Sh Majdi, Z.M. Omara, Fadl A. Essa, "*Augmenting thermal performance in tubular solar stills: A multifaceted strategy with wick cords, integrated baffles, reflectors, and nano-PCM*", *Results in Engineering*, Vol. 23, **2024**, 102771.
34. **Mamdouh I. Elamy**, Fadl A. Essa, Suha A. Mohammed, Wissam H. Alawee, Ali Basem, A.S. Abdullah, Hasan Sh. Majdi, Hayder A. Dhahad, Z.M. Omara, Y. Gamiel, "*Enhancing spherical solar still thermal performance with built-in baffles, reflectors, and nanoparticle phase change material*", *Solar Energy*, Vol. 284, **2024**, 113060.
35. Hossein Maleki, Parviz Asadi, Arman Sedghi, Naghdali Choupani, Amirhossein Moghanian, **Mamdouh I Elamy**, "*(Alumina and graphene)/ PLA nanocomposites manufactured by digital light processing 3D printer*", *Journal of Materials Research and Technology*, Vol. 32, pp. 3120-3134, **2024**.
36. Ayman Hoballah, Suha A Mohammed, Ali Basem, AS Abdullah, Wissam H Alawee, Hasan Sh Majdi, ZM Omara, **Mamdouh I Elamy**, Fadl A Essa, "*Improving the efficiency and productivity of solar distillation by creative design and heater and baffle integration*", *Results in Engineering*, Vol. 24, **2024**, 103210.
37. Gharam A Alharshan, **Mamdouh I Elamy**, Shimaa Ali Said, AMA Mahmoud, RA Elsad, Islam M Nabil, Nasra M Ebrahim, "*Effect of lanthanum oxide on the radiation-shielding, dielectric, and physical properties of lithium zinc phosphate glasses*", *Radiation Physics and Chemistry*, Vol. 224, **2024**, 112053.
38. **Mamdouh I Elamy**, Suha A Mohammed, Ali Basem, Wissam H Alawee, AS Abdullah, Hasan Sh Majdi, ZM Omara, Fadl A Essa, "*Optimizing cord pyramid solar distillers: A comprehensive study on square baffles, reflectors, and phase transition materials*", *Case Studies in Thermal Engineering*, Vol. 63, **2024**, 105304.
39. **Mamdouh I Elamy**, Mohamed Abd Elaziz, Mohammed Azmi Al-Betar, A Fathy, M Elmahdy, "*Enhanced random vector functional link based on artificial protozoa optimizer to predict wear characteristics of Cu-ZrO₂ nanocomposites*", *Results in Engineering*, Vol. 24, **2024**, 103007.
40. Nada Alfryyan, Norah A.M. Alsaif, Z.Y. Khattari, Hanan Al-Ghamdi, R.A. Elsad, M.S. Shams, Adel M. El-Refaey, A.S. Abouhaswa, **Mamdouh.I Elamy**, Y.S. Rammah, "*PVC reinforced with Pb_{1/2}Ni_{1/2}Fe₂O₄ spinel ferrites nanoparticles: Development of linear/nonlinear optical, dielectric characteristics and γ - rays buildup-factors of for optical and radiation safety applications*", *Optical and Quantum Electronics*, Vol. 57 (1), 1-21, **2024**.
<https://doi.org/10.1007/s11082-024-07417-0>.

41. A.M.I. Abu-Oqail, Hossam M. Yehia, Mostafa Wageh Lotfy, I.A. Rehab, W.M. Farouk, **Mamdouh I. Elamy**, and Mohamed Abu-Okail., "Influence of Y2O3 Additions on the Tribological and Electrical Performance of Cu-Carbon Nanotube/Ag Nanocomposite for Electrical Brushes", *Journal of Materials Engineering and Performance*, **2025**, <https://doi.org/10.1007/s11665-025-11162-0>.
42. Omayma A Nada, **Mamdouh I Elamy**, Maha M Salman, Khaled M Khader, Ahmed A Deabs, "Using Design for Six Sigma to develop an Innovative Porous Tibial Implant and Assessing the Proposed Design using Finite Element", *Results in Engineering*, Vol. 27, **2025**, 106646, <https://doi.org/10.1016/j.rineng.2025.106646>.
43. Mohamed I. A. Habba, Ahmed M. M. Hassan, A. Fathy, Abdelkarim Yousif Mohamed, Ramy A. Fouad, **Mamdouh I. Elamy**, Waheed S. Barakat," Microstructural Evolution and Strengthening Mechanisms in Cu-Coated cBN Reinforced Aluminum Nanocomposites", *Journal of Materials Research and Technology*, Vol. 38, Pages 3291-3309, **2025**. <https://doi.org/10.1016/j.jmrt.2025.08.113>
44. Ahmed M. Agwa & **Mamdouh I. Elamy**, "Modeling Power Curve of Wind Turbine Using Support Vector Regression with Dynamic Analysis", *Wind*, Vol. 5, **2025**. <https://doi.org/10.3390/wind5030020>.
45. Morteza Alizadeh, Mahshid Jamali, Shima Pashangeh, **Mamdouh I Elamy**, "Modeling and Investigation of Fabrication Parameters Influencing the Electrical Conductivity of ARBed Al/MoS2 and Al/MoS2/WC Composites", *Journal of Materials Research and Technology*, Vol. 38, Pages 4482-4494, **2025**. <https://doi.org/10.1016/j.jmrt.2025.08.214>.
46. Gharam A Alharshan, **Mamdouh I Elamy**, Ragab A Elsad, Asmaa MA Mahmoud, Mohamed Elsafi, "Examining yttrium oxide-doped neodymium-phosphate glass's optical properties and radiation protection effectiveness", *Radiochimica Acta*, Vol. **2025**. <https://doi.org/10.1515/ract-2025-0062>.
47. Gharam A Alharshan, **Mamdouh I Elamy**, Shima Ali Said, AMA Mahmoud, RA Elsad, Nasra M Ebrahim, Islam M Nabil, "Impact of yttrium on the optical and neutron radiation shielding properties of bismuth-lithium-zinc-phosphate glasses", *Journal of Radiation Research and Applied Sciences*, Vol. 18 (4), **2025**. <https://doi.org/10.1016/j.jrras.2025.101891>.
48. Abdelkarim Yousif Mohamed, Ahmed MM Hassan, Waheed S Barakat, Mohamed IA Habba, A Fathy, **Mamdouh I Elamy**, Ramy A Fouad, "Microstructure and Wear Behavior of Aluminum Matrix Composites Reinforced with Copper-Coated Cubic Boron Nitride Nanoparticles", *Tribology International*, Vol. 214, **2025**. <https://doi.org/10.1016/j.triboint.2025.111148>.
49. Morteza Alizadeh, Mahdih Oskouei, Shima Pashangeh, **Mamdouh I. Elamy**, "Fabrication and Characterization of Al/WC/MoS2 Hybrid Composite via Accumulative Roll Bonding: Microstructural Evolution, and Corrosion Behavior", *Metals and Materials International*, pp.1-18, **2026**, <https://doi.org/10.1007/s12540-025-02081-9>
50. Fatemeh Zamani, Morteza Alizadeh, Ali Mirzaei, Beom Tak Na, Hyoun Woo Kim, Sang Sub Kim, **Mamdouh I. Elamy**, "Fabrication of functionally graded aluminum sheets with a gradient of grain size through the efficient combination of severe plastic deformation techniques", *Metals and Materials International*, pp.1-17, **2026**, <https://doi.org/10.1007/s12540-025-02114-3>.
51. **Mamdouh I. Elamy**, F.N. Gazi, "Investigation the piezoelectric properties of titanium dioxide nanorod arrays during the spontaneous electric potential", *Canadian Metallurgical Quarterly*, pp. 1-9, **2026**, <https://doi.org/10.1080/00084433.2025.2590232>.
52. **Mamdouh Ibrahim Elamy**, Marwa Elmahdy, "Synergistic improvement of microstructure, strength, and wear resistance in Al-6.8 Si-4.2 Cu-0.3 Mg alloy by non-isothermal aging", *Canadian Metallurgical Quarterly*, pp. 1-14, **2026**, <https://doi.org/10.1080/00084433.2025.2593704>.
53. Seyed Amirhossein Fazeli, **Mamdouh I Elamy**, Hamed Soleimani samarkhazan, "Recurrent Weight Gain after Metabolic Bariatric Surgery (MBS): Emerging Insights on Kidney Function", *Obesity Surgery*, pp., 1-13, **2026**, <https://doi.org/10.1007/s11695-025-08406-2>.
54. **Mamdouh Ibrahim Elamy**, Mahdy Elmahdy, "Influence of post-aging processes on the functional properties of AZ31–45S5 hybrid composites", *Canadian Metallurgical Quarterly*, pp., 1-17, **2026**, <https://doi.org/10.1080/00084433.2025.2598960>.

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