

1. Mahmoud, Moustafa M.

2. Education:

- B.S. 1988 Mechanical Engineering (Production Engineering and Design), Minia University, Minia, Egypt
M.Sc. 1993 Mechanical Engineering (Production Engineering and Design), Minia University, Minia, Egypt
Ph.D. 2002 Institute fuer Lehr u. Forschungsgebiet Werkstoffkunde, Univ. of RWTH-Aachen, Aachen, Germany

3. Academic Experience:

- March 2017-Present Professor. Faculty of Engineering, Minia University
Sep. 2012- Present Assoc. Prof., College of Engineering, Taibah University
2008-June 2012 Assoc. Prof., College of Engineering, Taif University
2008 Assoc. Prof., Faculty of Engineering, Minia University
2002 –2008 Assistant Professor, Faculty of Engineering, Minia University
1995-2002 Research Assistant, RWTH-Aachen, LFW-Institute Aachen/Germany
1993 – 1995 Assistant Lecturer, Faculty of Engineering, Minia University
1988 – 1993 Demonstrator, Faculty of Engineering, Minia University

4. Non-Academic Experience:

- Reserve officer, Egyptian armed Forces, Egypt (1988-1990)
Consulting for Upper Egyptian Flour Mills, Minia, Egypt, (2003-2004)

5. Certifications or professional registrations: Egypt

6. Current membership in professional organizations:

- Membership of Engineering Syndicate, Egypt, 1988-present.

7. Honors and Awards:

1. Distinction Prize in Engineering Researches, Taif University, KSA, 2010.
2. The 1st Position at the level of the College and Department through system performance assessment of the academic staff members, Taif University, KSA (2008)
3. The Best Research Work in Engineering Sciences, Sama Sinai Foundation for Development, EGYPT, (2007).
4. The Minia University Prize (EL-Tashgieyah) in Engineering Sciences, EGYPT, (2007).

8. Service activities (inside and outside of the institution)

8.1. Abroad: (Taibah University, Saudi Arabia) (2013-2017)

- i. Executive Secretary, Mechanical Engineering Department, 2013-2017.
- ii. Member of ME- Program committee
- iii. Member of Department Unit for Quality and Academic Accreditation, Mechanical Engineering Dept., 2013-2017.
- iv. Establishment of Engineering Workshops, College of Engineering, 2013-2017.

8.2. Abroad: (Taif University, Saudi Arabia) (2008-2012)

- i. Executive Secretary, Mechanical Engineering Department, 2011.
- ii. Member of Mechanical Engineering Program committee, 2007-2012.
- iii. Member of Development and Academic Research Unit, 2010.
- iv. Member of Department Unit for Quality and Academic Accreditation, Mechanical Engineering Dept., 2010-2012.
- v. Member of the 1st Workshop about Visions and research Priorities in Taif University as Engineering faculty coordinator, 2010.
- vi. Member of Materials and Corrosion Group, Chemical Department, Faculty of Science since 2009- 2012.
- vii. Participation in the “Complementary Program in Training of Trainers”, 2010.
- viii. Establishment of the Mechanics of Materials Lab, Faculty of Engineering, Taif University, KSA, (2007-2010).
- ix. Establishment of the Engineering Workshops, Faculty of Engineering, Taif University, KSA, (2007-2010).
- x. Participate in the establishment of the Mechanical Engineering Department, Faculty of Engineering, Taif University, KSA, (2007-2010).
- xi. Secretary of the Faculty Council, Faculty of Engineering, Taif University, (10th 2007-10th 2008).

8.3. Minia University (Egypt): (2002- 2007)

- i. Working in the Tribology lab (Friction, wear & Lubrication) Developing of new friction-materials.
- ii. Design of Shredding Machine for Reverse Engineering Committee, 2004.
- iii. Membership of the Quality and Accreditation Unit of the Faculty of Engineering, (2005 - 2007)
- iv. Director of Digital Library Project, Minia University, 2006-2007
- v. Member of the Academic Quality and Accreditation Unit, Faculty of Computers and Information, 2005-2007.

8.4. Abroad: (RWTH- Aachen University, Germany) (1997-2006)

- i. Working in the Collaborative Research Center 561, Thermal high loaded open pores and cooled multi-layer-system for combi-power stations" support finically with the Deutsche Forschungsgemeinschaft (DFG).
- ii. Working in the Research Project El 65/19-2, Behavior of metallic composites in tension and compression zone under cyclic loading", support finically with the Deutsche Forschungsgemeinschaft (DFG).
- iii. Working in the Collaborative Research Center 370, Integrated Modeling of Materials" support financially within the Deutsche Forschungsgemeinschaft (DFG).
- iv. Carrying out experiments (Initiation of Cracks) and some FEM-Domains (preset of breaking point for Gas-cylinders) for RheinMetall-company and Stabiluss- company in Germany respectively
- v. Working in LFW-Institute (Mechanical behavior of metals (Al- alloys, metallic composites, perforated sheets) and considering operation conditions, Tension, compression, Fatigue, creep.

- vi. Working in the Research Project,, "Modeling of Transient Thermal Contact Resistance out of Conjugate Gradient Method" support finically with the Deutsche Forschungsgemeinschaft (DFG).

9. Most important publications and presentations from the past 5- years

9.1. Journals and Conferences

- 1- S.H. Kenawy, **M. M. Mahmoud**, I.H.M. Aly, L. Abed Alrahim Mohammed,," Synthesis of Calcium Silicate Ceramic via Sol-Gel Technique", International ceramics review (Intercceram), Vol. 62, No. 5, pp. 380-384, **2013**.
- 2- Y. Mohammed, **M. Mahmoud Moustafa** , Ashraf T. Mohamed, G.T. Abdel-Jaber," Finite Element Analysis Of Flow Behaviors Of Aluminum Powder Compacts", International Journal of Applied Research in Engineering and Science, Vol. 1, No. 1, 1-10, **2014**.
- 3- Mohammed Y. Abdellah, **M. Mahmoud Moustafa**, Ashraf T. Mohamed," Hot Extrusion of Reinforced Aluminum Powder Compacts", International Journal of Materials Lifetime, Vol. 1, No. 1, 1-6, **2014**.
- 4- **Mahmoud M. M.**, "Erosive wear of vehicles headlight cover films", Sylwan 159 (6), pp 134-144, **2015**.
- 5- Rehab I. A, **Mahmoud M. M.**, Mohamed A. T., Ali W. Y., "Electrostatic characteristics of copper wires reinforced epoxy matrix composites", Sylwan 159 (5), pp 168-181, **2015**.
- 6- **Mahmoud M. M.**, Ali W. Y., Abdel-Jaber G. T. "Triboelectrification of polypropylene shoe sliding against polyethylene cover", Journal of Multidisciplinary Engineering Science and Technology (JMEST) 2(11), pp 2987-2993, **2015**.
- 7- Rehab I. A, **Mahmoud M. M.**, Mohamed A. T., Ali W. Y., "Frictional behaviour of epoxy reinforced copper wires composites", Advances in Materials Research, Vol. 4, No. 3 (2015) 165-177.
- 8- Rehab I. A, **Mahmoud M. M.**, Mohamed A. T., Ali W. Y., "Increasing the safety of walking against epoxy floorings reinforced by metallic wires", KGK , 05 **2016**, PP 54-59.
- 9- **Mahmoud M. M.**, "Frictional behavior of different glove materials sliding against glass sheet", J. Applied Sciences, 16 (10), pp 491-495, **2016**.
- 10- **Mahmoud M. M.**, "Friction coefficient of recycled rubber soles", Journal of the Egyptian society of tribology, 13(4), pp 1–13, **2016**.
- 11- Khaled M. Ibrahim, **M. Mahmoud Moustafa**, Mubarak W. Al-Grafi, Nader El-Bagoury, Mohammed A. Amin, "Effect of Solution Heat Treatment on Microstructure and Wear and Corrosion Behavior of a Two Phase β -Metastable Titanium Alloy", Int. Electrochem. Sci, 11, pp 3206-3226, **2016**.
- 12- **Mahmoud M. M.**, Ibrahim A. A., "Friction Coefficient and Triboelectrification of Textiles", Journal of Multidisciplinary Engineering Science and Technology (JMEST) 3(2): 3970-3976, **2016**.
- 13- **Mahmoud M. M.**, Ali W. Y., "Electric static charge generated from the sliding of head scarf textiles against skin and hair", International Journal of Scientific & Engineering Research, 7(2), pp 375-381, **2016**.
- 14- M. W. Al-Grafi, **M. M Mahmoud**, W. Y. Ali, "Effect of Tip Radius of the Indenters on Friction Coefficient of the Scratched Metallic Sheets" International journal of Advanced Materials and Manufacturing IJAMM, 1 (1), **2016**.
- 15- **Mahmoud M. M.**, "Friction of Perforated Cylindrical Rubber Protrusions Sliding on Ceramic", Journal of Multidisciplinary Engineering Science and Technology (JMEST) 3(10): 5782-5788, **2016**

- 16- **Mahmoud M. M.**, “On the Friction of Bored Cylindrical Rubber Protrusions Sliding on Ceramic”, International Journal of Engineering, Transaction B: Applications, Vol. 30, No. 5, 768-774, **2017**.
- 17- **Mahmoud M. M.**, Ali W. Y., “Abrasion Resistance of Blended Polymers Filled with Metallic Powders”, Mat. -wiss. u. Werkstofftech., 48, 731–736, **2017**

9.2. Books

- **Mahmoud M. M.**, Ali W. Y., “Mechanical Drawings”, ISBN: 978-603-8063-15-6, published by Taif University, **2010**.
- **Mahmoud M. M.** "Engineering Drawing, Engineering Freshman", ISBN: 978-603-8063-14-9, published by Taif University, **2010**.

9.3. Financial Supported Research Projects (2008-2016)

Project No.	Project title	Sponsored by
350/430/1	Design and Construction of a Test Rig to Measure the Friction Coefficient Between the Foot and The Flooring Materials	Taif University KSA
351/430/1	Design and Construction of a Test Rig to Measure the Abrasion Resistance of Engineering Materials	Taif University KSA
1/431/708	Determining the Operating Time of The Engine Oil	Taif University KSA
3100	Tribological behaviour of Low-cost Titanium alloys used in aerospace applications	Taibah University KSA
00000	Tribological and Numerical Investigation on the Effect of Environmental Conditions on the Contact Friction in Rail Road Vehicle Systems	Taibah University KSA
ASTP09	Enhancing wear resistance of wind Turbine blades under sand impact (strategic project)	King Abdul-Aziz City for Science and Technology (KACST)

10. Briefly list the most recent professional development activities

- Participation in the workshop “Quality Requirements in E-Learning and Learning Management Systems”, Collaborative between British Council and Taif University, 27-28/5/1433 A.H, **2012**.
- 3rd Scientific Assembly, Taif University, April **2012**
- Int. Conf. on Materials Science and its Applications, Taif Univ. - KSA, 13-15-Feb. **2012**.
- ABET Workshop, Taif University, KSA, November, 19th -23rd, **2011**.
- Quality and Evidences of Documentation from an academic perspective, Taif University, 17th May 2011.