


Faculty Vitae

General Information:

Name	Nationality	Photo
Yasser Mahmoud Abdelrhman Mahmoud	Egyptian	

Education:

Degree	Discipline	Institution	Year
PhD	Materials science and Engineering	E-JUST	2016
MSc	Mechanical engineering	Assiut university	2013
Bachelor	Mechanical engineering	Assiut university	2006

Academic Record:

Institution	Title	Period	FT/PT
Majmaah University	Assistant professor	7.2024 till now	FT
Assiut University	Associate professor	1.2023 till 7.2024	FT
Assiut University	Assistant professor	10.2016 till 1.2023	FT
Assiut University	Assistant lecturer	9.2013 till 10.2016	FT
Assiut University	Demonstrator (TA & RA)	1.2007 till 9.2013	FT

Awards and Honors

#	Award / Honor	Year
1	The best Research Award at the level of the Faculty of Engineering - Mechanical Engineering Department for the year 2022 on research titled: "Improving surface roughness of polylactic acid (PLA) products manufactured by 3D printing using a novel slurry impact technique".	2022
2	Optimization of Printing Parameters for Improving Surface and Mechanical Properties of Dual-Extruder 3d Printer Products, this project was funded by 75,000 EGP from Academy of Scientific Research and Technology (ASTR-Egypt), 2022.	2022

Scientific and professional membership

#	Membership
1	Member of the Engineers Syndicate

Selected publications

Journal publications	
1	<u>Abdelrhman, Yasser</u> , Sengo Kobayashi, Satoshi Okano, Takeaki Okamoto, and Mohamed Abdel-Hady Gepreel. "Biocompatibility of Anodized Low-Cost Ti-4.7Mo-4.5Fe Alloy." <i>Materials Science Forum</i> 1016 (January 2021): 458–64.
2	Aldahash, S.A.; Abdelaal, O.; <u>Abdelrhman, Y.</u> Slurry Erosion–Corrosion Characteristics of As-Built Ti-6Al-4V Manufactured by Selective Laser Melting. <i>Materials</i> 2020, <i>13</i> , 3967. https://doi.org/10.3390/ma13183967 .
3	Mahmoud Heshmat and <u>Yasser Abdelrhman</u> , ANOVA and regression model of slurry erosion parameters of a polymeric spray paint film, <i>International Journal of Materials Engineering Innovation</i> 2020 11:3, 198-211
4	Osama Abdelaal, Mahmoud Heshmat, <u>Yasser Abdelrhman</u> , Experimental investigation on the effect of water-silica slurry impacts on 3D-Printed polylactic acid, <i>Tribology International</i> , Volume 151, 2020, 106410, ISSN 0301-679X, https://doi.org/10.1016/j.triboint.2020.106410 .
5	Omar, R., Oraby, E., <u>Abdelrhman, Y.</u> and Aboaraia, M. (2020), "Effect of glycine as a complex agent on the surface and corrosion properties of Ni-P and Ni-P/Al ₂ O ₃ electroless coating", <i>Anti-Corrosion Methods and Materials</i> , Vol. 67 No. 6, pp. 593-603. https://doi.org/10.1108/ACMM-06-2020-2318
6	Saleh, B.; Maher, I.; <u>Abdelrhman, Y.</u> ; Heshmat, M.; Abdelaal, O. Adaptive Neuro-Fuzzy Inference System for Modelling the Effect of Slurry Impacts on PLA Material Processed by FDM. <i>Polymers</i> 2021, <i>13</i> , 118. https://doi.org/10.3390/polym13010118 .
7	<u>Y. Abdelrhman</u> , M. A.-H. Gepreel, S. Kobayashi, S. Okano, and T. Okamoto, "Biocompatibility of new low-cost ($\alpha + \beta$)-type Ti-Mo-Fe alloys for long-term implantation," <i>Mater. Sci. Eng. C</i> , vol. 99, pp. 552–562, 2019. [I.F.: 5.08]
8	<u>Y. Abdelrhman</u> , M. A.-H. Gepreel, S. Kobayashi, S. Okano, and T. Okamoto5, "Biocompatibility of Self-organized TiO ₂ nanotubes with different topographies," in <i>The International Conference on Materials Science and Engineering: Recent Advances and Challenges (The ICMSE-RAC 2018)</i> , 2018.
9	<u>Y. Abdelrhman</u> , A. Abouel-Kasem, K. Emara, and S. Ahmed, "The effect of boronizing heat treatment on the slurry erosion of AISI 5117," <i>Ind. Lubr. Tribol.</i> , vol. 70, no. 7, pp. 1176–1186, 2018. [I.F.: 0.76]
10	M. A.-H. Gepreel, S. Kobayashi, and <u>Y. M. Abd-elrhman</u> , "Biocompatibility of New Low-Cost Ti-Alloys," in <i>Proceedings of the 13th World Conference on Titanium</i> , Hoboken, NJ, USA: John Wiley & Sons, Inc., 2016, pp. 1669–1671.
11	<u>Y. Abd-elrhman</u> , M. A. H. Gepreel, A. Abdel-Moniem, and S. Kobayashi, "Compatibility assessment of new V-free low-cost Ti-4.7Mo-4.5Fe alloy for some biomedical applications," <i>Mater. Des.</i> , vol. 97, pp. 445–453, 2016. [I.F.: 4.53]
12	<u>Y. M. Abd-Elrhman</u> , M. A. Gepreel, A. Abd El-Moneim, and S. Kobayashi, "Electrochemical and corrosion resistance of new Ti-Mo-Fe alloys for biomedical applications," in <i>WIT Transactions on Engineering Sciences</i> , 2015, vol. 90, pp. 369–378.

13	<p><u>Y. Abd-elrhman</u>, M. A.-H. Gepreel, K. Nakamura, S. Kobayashi, and M. Abd El-Moneim, Ahmed Ibrahim, “Electrochemical behavior of new Ti-Mo-Fe alloys in Ringer’s solution,” in 3rd International Conference on Corrosion Mitigation and Surface Protection, 2014.</p>
14	<p><u>Y. M. Abd-Elrahman</u>, A. Abouel-Kasem, S. M. Ahmed, and K. M. Emara, “Stepwise Erosion as a Method for Investigating the Wear Mechanisms at Different Impact Angles in Slurry Erosion,” J. Tribol., vol. 136, no. 2, p. 021608, 2014. [I.F.: 1.79]</p>
15	<p><u>Y. M. Abd-Elrhman</u>, A. Abouel-Kasem, K. M. Emara, and S. M. Ahmed, “Effect of Impact Angle on Slurry Erosion Behavior and Mechanisms of Carburized AISI 5117 Steel,” J. Tribol., vol. 136, no. 1, p. 011106, 2013. [I.F.: 1.79]</p>
16	<p>A. Abouel-Kasem, <u>Y. M. Abd-elrhman</u>, K. M. Emara, and S. M. Ahmed, “Design and Performance of Slurry Erosion Tester,” J. Tribol., vol. 132, no. 2, p. 021601, 2010. [I.F.: 1.79]</p>