DR. ESSAM BAHGAT EZZAT MOUSTAFA

Lecturer, Department of Mechanical Engineering, King Abdulaziz University

Education

Degree Ph. D. M. Sc. B. Sc.	<i>Field a</i> Mecha Mecha Mecha	of Study nical Engineering nical Engineering nical Engineering	Institution Benha Univers Benha Univers Benha Univers	sity, Egypt sity, Egypt sity, Egypt	<i>Year</i> 2017 2011 2002
Acade	mic Ex	perience		TT: 1	
From	10	Institution	Rank	Title Coordinator, e	(Chair, Full or etc.) Part Time
2010	2011	Arab Academy for Science, Technology & Maritime Transportty	ТА		Part Time
2011	Present	King Abdulaziz University	Lecturer		Full

Non Academic Industrial Experience (including Consultations)

From	То	Company/Entity	Title	Position	Description	Full	or
				(Brief)		Part 2	Time
Summer	2011	Cairo University, information & training consulting center, Egypt	lecturer			Part	
2004	2011	Nile Research Institute, Ministry of Water Resource, Egypt			F	ull	

Scientific & Professional Societies of which a Member

Egyptian Engineers Syndicate

Since 7/2002

Principal Publications/Presentations from the Past three Years

- 1. E.B. Moustafa, "Dynamic Characteristics Study for Surface Composite of AMMNCs Matrix Fabricated by Friction Stir Process" Materials (Basel), 2018. 12.
- 2. Ahmed O. Mosleh , Anastasia V. Mikhaylovskaya , Anton D. Kotov , Waheed S. Abushanab , Essam B. Moustafa , Vladimir K. Portnoy, "Experimental investigation of temperature and strain rate effect on the superplastic deformation behavior of Ti-based alloys in $(\alpha+\beta)$ temperature field". Metals Vol. (8), 2018.
- 3. Essam B.Moustafa, Waheed Abushanab, "Detection of Friction Stir Welding Defects of AA1060 aluminum alloy Using Specific Damping Capacity and Dynamic Characteristics" Materials Vol. (10), 2018.
- 4. E. Moustafa, "Effect of Multi-Pass Friction Stir Processing on Mechanical Properties for AA2024/A12O3 Nanocomposites". Materials (Basel) 2017, 10.

- 5. E. B. Moustafa, S. Mohammed, S. Abdel-Wanis, T. Mahmoud and S. El-Kady, "Review Multi Pass Friction Stir Processing" American Scientific Research Journal for Engineering, Technology, and Sciences, vol. 22, no. 1, pp. 98-108, 2016.
- 6. E. B. Moustafa, S. Mohammed, S. Abdel-Wanis, T. Mahmoud and S. El-Kady, "Effect of Friction Stir Processing Parameters on the Tensile Strength of Surface Composite Aluminum Alloy" International Journal of Advanced Research, vol. 5, no. 1, 2017.
- 7. E. Moustafa, S. Mohammed, S. Abdel-Wanis, T. Mahmoud and S. El-Kady, "Characterization of elastic modulus for AA2024/Al2O3 Nanocomposite beam obtained from dynamic and static methods." international journal for research & development in technology, vol. 6, no. 4, pp. 124-128, 2016.
- 8. E. B. Moustafa, S. Mohammed, S. Abdel-Wanis, T. Mahmoud and S. El-Kady, "Taguchi optimization for AA2024 / Al2O3 surface composite hardness fabricating by Friction stir processing" International Research Journal of Engineering and Technology, vol. 3, no. 11, pp. 1032-1035, 2016.
- 9. E. B. Moustafa, S. Mohammed, S. Abdel-Wanis, T. Mahmoud and S. El-Kady," Surface composite defects of Al/Al2O3 metal matrix fabricated by Friction stir processing" Journal of Materials Science & Surface Engineering Vol. 5 (2), 2017 ,pp524-527.
- 10. Ahmad W.Shafey, Essam Bahgat, MoustafaHamed, Ahmed Khayri, "Effect of process parameters on residual stress in AA1050 friction stir welds" iinternational Journal of Modern Research in Engineering and Technology (IJMRET) www.ijmret.org volume 1 Issue 4llOctober 2016.
- 11. Waheed Sami AbuShanab, Essam B Moustafa, Ahmed H Hammad, RM Ramadan, Ahmed R Wassel, "Enhancement the structural, optical and nonlinear optical properties of cadmium phosphate glasses by nickel ions" Journal of Materials Science: Materials in Electronics, 2019.
- 12. E Bahgat, SS Mohamed, "Microstructure and Mechanical Properties of AA2024/Al2O3 Surface Nanocomposites Fabricated Using Friction Stir Processing" Engineering Research Journal (ERJ), 2018.