

List of Publications

- I. M. El-Galy, B. I. Bassiouny and M. H. Ahmed, "State of the Art Functionally Graded Materials: Classifications from Industrial Point of View", accepted for publication in the 15th Inter. Symposium on Functionally Graded Materials, Kita-kyushu, Japan.
- M. G. Nassef, I. El-Galy, A. Hassanin, "Mechanical and Dynamic Characterization of Sustainable Composites Based on Food Packaging Waste", 5th International Conference on Mechanical, Materials and Manufacturing (ICMMM 2018), Orlando, USA, October 13-15, 2018
- I. M. El-Galy, B. I. Bassiouny and M. H. Ahmed, "Empirical Model for Dry Sliding Wear Behaviour of Centrifugally Cast Functionally Graded Al / SiCp Composite", Accepted for publication in Key Engineering Materials, ISSN: 1662-9795, 2018
- El-Galy, I; Hamed, M.; Essa, A., "Modeling and Validation of Residual Stresses in Tube Bending of Strain Hardening Materials", Journal of Engineering and Applied Science JEAS, Vol. 65, Issue 3, 2018
- I. M. El-Galy, A. R. Elmasry, "Experimental and Numerical Simulation for Formability of Tailor-Welded Blanks", International Conference on Materials Science and Engineering: Recent Advances and Challenges (ICMSE-RAC 2018), Egypt, March 11-13, 2018
- El-Galy, I. M; Hamed, M. H.; Bassiouny, B. S., "Characterization of Functionally Graded Al-SiCp Metal Matrix Composites Manufactured by Centrifugal Casting, Alexandria Engineering Journal, Vol. 56, No. 4, <https://doi.org/10.1016/j.aej.2017.03.009>, 2017
- Ahmed, M. H.; Afifi, H. A.; El-Galy, I. M., "Characterization of Closed-cell Aluminum Foams Produced by Melt-based technique"; 17th International Conference on Applied Mechanics and Mechanical Engineering AMME'17, MTC, 19-21 April 2016, Cairo, Egypt
- El-Galy, I.; Elmasry, A.; El-Ashram, E., "Numerical Simulation of Welding Dissimilar Steel Sheets for Use in Tailor-Welded Blanks"; International Journal of Advancement in Mechanical and Aeronautical Engineering, Vol. 3, Issue 1, 2016.
- Shyha, I; Patrick, M.; El-Galy, I., "Machinability analysis when drilling Kovar shape memory alloys"; Advances in Materials and Processing Technologies, Vol. 2, 2015
- El-Galy, I.; El-Nainay, M; Hassanin, A., "Wireless Acoustic Emission System for Online Monitoring of Industrial Manufacturing Processes"; Industry and Academia Conference IAC2014, Cairo, March 2014
- Afifi, H.; Ahmed, M.; El-Galy I., "Aluminum Foam Production and Characterization based on Calcium Carbonate as an Economical Foaming Agent"; Industry and Academia Conference IAC2014, Cairo, March 2014
- Behrens, B.-A.; El-Galy, I.; Huinink, T.; Buse, C., "Online Monitoring of Deep Drawing Process by Application of Acoustic Emission"; 10th International Conference on Technology of Plasticity (ICTP) 2011, Steel Research International (Special Edition), pp. 385-389, Aachen, Germany, September, 2011
- El-Galy Khalil, I., "Application of Acoustic Emission and Signal Analysis Techniques in Monitoring Die Forging Processes of Light Alloys"; Dissertation, Garbsen, PZH, Produktionstechn. Zentrum, XIX, 161 pages, 2011
- Behrens, B.-A.; Hagen, T.; Knigge, J.; El-Galy, I.; Hadifi, T.; Bouguecha, "A. New Trends in Forging Technologies"; 14th International Conference on Material Forming (ESAFORM), AIP Conf. Proceedings, Vol. 1353, April 2011

- Behrens, B.-A.; El-Galy, I.; Wager, C.; Schrödter, J.; Olle, P.; Betancur Escobar, S.; Weigel, N.; Bouguecha, A., "Aktuelle Forschungsergebnisse am Institut für Umformtechnik und Umformmaschinen"; Tagungsband des 20. Umformtechnisches Kolloquium Hannover 2011: Umformtechnik - Innovation aus Industrie und Wissenschaft, S. 35-51, Garbsen, Februar 2011
- El-Galy, I.; Behrens, B.- A., "Online Monitoring of Hot Die Forging Processes Using Acoustic Emission (Part-II)"; Proceedings of 29th European Conference on Acoustic Emission Testing, Vienna, 8-11 September 2010
- Bouguecha, A.; El-Galy, I.; Stukenborg-Colsman, C.; Lerch, M.; Nolte, I.; Wefstaedt, P.; Mathias, T.; Behrens, B.-A., "Numerical Investigations of the Strain-Adaptive Bone Remodeling in the Prosthetic Pelvis"; Proceedings of the 29th IFMBE, pp. 562, Chalkidiki, Greece, 27 - 30 May 2010
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