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College: Faculty of Engineering

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Papers in Journals

1. M. Abbasi, Obtaining high formability of IF-galvanized steel tailor welded blanks by applying optimum CO₂ laser welding parameters, *International Journal of Materials Research*, 2011.
2. M. Abbasi, A new concept in obtaining forming limit diagram of tailor welded blanks, *Journal of Strain analysis for Engineering Design*, 2011.
3. M. Abbasi, Analysis of microstructure and mechanical properties of different boron and non-boron alloyed steels after being hot stamped, *Procedia Engineering*, 2011.
4. M. Abbasi, Identification of GTN model parameters by application of response surface methodology, *Procedia Engineering*, 2011.
5. M. Abbasi, Semi-hot stamping as an improved process of hot stamping, *Journal of Materials Science and Technology*, 2011.
6. M. Abbasi, Analysis of microstructure and mechanical properties of different high strength carbon steels after hot stamping, *Journal of Materials Processing Technology*, 2011.
7. M. Abbasi, Formability enhancement of galvanized IF-steel TWB by modification of forming parameters, *Journal of Materials Engineering and Performance*, 2012.
8. M. Abbasi, Effect of different yield criteria on prediction of wrinkling initiation of interstitial-free (IF) galvanized steel sheet, *Materials and Design*, 2011.
9. M. Abbasi, Investigation into formability of tailor welded blank consisted of IF-steel sheets with different thicknesses- experiment and simulation, *Steel Research International*, 2010.
10. M. Barati, M. Abbasi, M. Abedini, The effects of friction stir processing and friction stir vibration processing on mechanical, wear and corrosion characteristics of Al6061/SiO₂ surface composite, *Journal of Manufacturing Processes*, 2019 8 1.
11. M. Abbasi, Analysis of microstructure and mechanical properties of different hot stamped B-bearing steels, *Steel Research International*, 2010.
12. B. Bagheri, M. Abbasi, A. Abdollahzadeh, A.H. Kokabi, Numerical analysis of cooling and joining speed effects on friction stir welding by smoothed particle hydrodynamics (SPH), *Archive of Applied Mechanics*, 2020.
13. B. Bagheri, M. Abbasi, A. Abdollahzadeh, A.H. Kokabi, Numerical analysis of vibration effect on friction stir welding by smoothed particle hydrodynamics (SPH), *The International Journal of Advanced Manufacturing Technology*, 2020.
14. B. Bagheri, M. Abbasi, R. Hamzehlo, Comparison of different welding methods on mechanical properties and formability behaviors of tailor welded blanks (TWB) made from AA6061 alloys, *Journal of Mechanical Engineering Science*, 2020.
15. B. Bagheri, M. Abbasi, A. Abdollahzadeh, A.H. Kokabi, A comparative study between friction stir

processing and friction stir vibration processing to develop magnesium surface nanocomposites, *International Journal of Minerals, Metallurgy and Materials*, 2020.

16. M. Abbasi, M. Givi, B. Bagheri, New method to enhance the mechanical characteristics of Al-5052 alloy weldment produced by tungsten inert gas, *Journal of Engineering Manufacture*, 2020.
17. B. Bagheri, M. Abbasi, R. Hamzehlo, The investigation into vibration effect on microstructure and mechanical characteristics of friction stir spot vibration welded aluminum: Simulation and experiment, *Journal of Mechanical Engineering Science*, 2020.
18. B. Bagheri, M. Abbasi, Amin Abdollahzadeh, Amir Hossein Kokabi, Effect of vibration on machining and mechanical properties of AZ91 alloy during FSP: modeling and experiments, *International Journal of Material Forming*, 2020.
19. B. Bagheri, M. Abbasi, Amin Abdollahzadeh, Ehsan Mirsalehi, Effect of second-phase particle size and presence of vibration on AZ91/SiC surface composite layer produced by FSP, *Transactions of Nonferrous Metals Society of China*, 2020.
20. B. Bagheri, M. Abbasi, Development of AZ91/SiC surface composite by FSP: effect of vibration and process parameters on microstructure and mechanical characteristics, *Advances In Manufacturing*, 2020.
21. B. Bagheri, M. Abbasi, M. Dadaei, Mechanical Behavior and Microstructure of AA6061-T6 Joints Made by Friction Stir Vibration Welding, *Journal of Materials Engineering and Performance*, 2020.
22. B. Bagheri, M. Abbasi, M. Dadaei, Effect of Water Cooling and Vibration on the Performances of Friction-Stir-Welded AA5083 Aluminum Joints, *Metallography, Microstructure, and Analysis*, 2020.
23. B. Bagheri, M. Abbasi, Amin Abdollahzadeh, Investigation into microstructure and mechanical characteristics of AA6061-T6 joints made by FSW, FSVW, and TIG: A comparative study, *International Journal of Minerals, Metallurgy and Materials*, 2020.