

**ENGR. DR. TAHIR AHMAD**  
**S/o MUHAMMAD MUKHTAR**

**PUBLICATIONS**

**Publication in Journals**

1. Muhammad Abubaker Khan, Yangwei Wang, Muhammad Junaid Anjum, Ghulam Yasin, Abdul Malik, Faisal Nazeer, Shahrukh Khan, **Tahir Ahmad**, Hao Zhang, Effect of heat treatment on the precipitate behaviour, corrosion resistance and high temperature tensile properties of 7055 aluminum alloy synthesis by novel spray deposited followed by hot extrusion, *Vacuum* 174 (2020) 109185. (IF=2.906).
2. Yangwei wang, Muhammad Abubaker Khan, Ghulam Yasin, **Tahir Ahmad**, Adiabatic shear band localization in an Al-Zn-Mg-Cu alloy under high strain rate compression, *Journal of Materials Research and Technology* 9(2020) 3977-3983 (IF= 5.289).
3. Syed Shehzad Raza, **Tahir Ahmad**, Muhammad Kamran, Xuehui Zhang, Muhammad Abdul Basit, Muhammad Umar Manzoor, Aqil Inam, Osama Majeed Butt, Muhammad Abrar, Effect of Hot Rolling on Microstructures and Mechanical Properties of Ni base Superalloy, *Vacuum* 174, (2020) 109204 (IF=2.906).
4. Jiang Liu, Junbiao Liu, Xuehui Zhang, Tahir Ahmad, Tongxiang Liang, Longfei Zeng, Chunming Wang and Bin Yang, Effect of Ultrasonic Surface Rolling Treatment on Corrosion Behavior of Alloy 690, *Metals* 2020, 10, 917, 1-12, (IF=2.117).
5. Shengjian Zhu, Yifeng Hu, Xuehui Zhang, Yangjun Zou, Tahir Ahmad, Wenglong Zhang, Fuqian Tang & Tongxiang Liang, Experimental investigation on ultrasonic shot peening of WC-Co alloy, *Materials and Manufacturing Processes*, 2020, Vol. 35, No. 14, 1576–1583 (IF=2.6).
6. Muhammad Abubaker Khan, Yangwei Wang, Ghulam Yasin, Faisal Nazeer, Abdul Malik, Waheed Qamar Khan, Tahir Ahmad, Hao Zhang, Mohamed A. Afifi, The effect of strain rates on the microstructure and the mechanical properties of an over-aged Al-Zn-Mg-Cu alloy, *Materials Characterization* 167 (2020) 110472, (IF=3.562).
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8. Muhammad Abubaker Khan, Yangwei Wang, Huanwu Cheng, Ghulam Yasin, Abdul Malik, Faisal Nazeer, Tahir Ahmad, Waheed Qamar Khan, Muhammad Kamran, Mohamed A. Afifi, Microstructure evolution of an artificially aged Al-Zn-Mg-Cu alloy subjected to soft- and hard-steel core projectiles, *Journal of Materials Research and Technology* 9(5) (2020) 11980-11992 (IF= 5.289).
9. Faryal Mughal, Mohsin Muhyuddin, Muhammad Rashid, **Tahir Ahmad**, Muhammad Aftab Akram, Muhammad Abdul Basit, Multiple energy applications of quantum-dot sensitized TiO<sub>2</sub>/PbS/CdS and TiO<sub>2</sub>/CdS/PbS

- hierarchical nanocomposites synthesized via p-SILAR technique, *Chemical Physics Letters* 717 (2019) 69-76. (IF=1.68).
10. Muhammad Abubaker Khan, Yangwei Wnag, Tahir Ahmad, Microstructure characterization of AA7055-T6, AA6061-T6511 and AA7A52-T6 Al alloys subjected to ballistic impact against heavy tungsten alloy projectile, *Journal of Archives of Civil and Mechanical Engineering*, 2019, 19, 1484-1496. (IF=2.864).
  11. Muhammad Abubaker Khan, Yangwei wang, Ghulam Yasin, Faisal Nazeer, Abdul Malik, Waheed Qamar Khan Hao Zhang Tahir Ahmad, Microstructure characteristic of spray formed 7055 Al alloy subjected to ballistic impact by two different steel core projectiles impact, *Journal of Materials Research and Technology* 8(6) (2019) 6177-6190. (IF= 5.289).
  12. Jinming Liu, Fei Li, Jinping Liu, Xu Zhang, Tahir Ahmad, Tongxiang Liang, Thermodynamic description of the Ce-Ga and Ga-Gd systems, *Monatshefte für Chemie - Chemical Monthly* (2019) 150:1225-1233. (IF=1.501).
  13. Xuehui Zhang, Shengjian Zhu, Biao Zhang, Tahir Ahmad, Chunming Wang, Liangliang Zhou, Tongxiang Liang\* ,Bin Yang, Effect of Y<sub>2</sub>O<sub>3</sub> addition on the Microstructure, Wear resistance, and Corrosion Behavior of W-4.9Ni-2.1Fe heavy Alloy, *Journal of Materials Engineering and Performance*, 2019, 28, 4801-4810, ((IF=1.476).
  14. Jiang Liu, Chunming Wang, Wenlong Zhang, Tingting Xia, Xuehui Zhang, Tongxiang Liang, Tahir Ahmad, and Bin Yang, Corrosion behaviour of Nanocrystallines 304 Stainless Steel in Simulated Secondary side Environment, *Materials Science and Technology*, 2019, Vol. 35(8), 907-915. (IF=1.938).
  15. Yang Xian Yan, Tahir Ahmad, Xuehui Zhang, Tongxiang Liang, Sajjad Ur Rehman, M. U. Manzoor, Weijiang Liu and Muhammad Abdul Basit, Microstructure, hardness and corrosion behavior of Ni-Ti alloy with the addition of rare earth metal oxide (Gd<sub>2</sub>O<sub>3</sub>), *Mater. Res. Express* 6 (2019) 076513. (IF=1.449)
  16. Sajjad Ur Rehman, Qingzheng Jiang, Weikai Lei, Liangliang Zeng, Qiulan Tan, Mahpara Ghazanfar, Saif Ullah Awan, **Tahir Ahmad**, Minglong Zhong, Zhenchen Zhong, Microstructure, magnetic properties, thermal stabilities and coercivity mechanisms of Ta doped Nd-Fe-B ribbons, *Journal of Physics and Chemistry of Solids*, 124 (2019) 261–265. (IF=2.207).
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- Behavior Evaluations, of Low-Temperature Sintered, Ce-doped, Nanostructured Garnet Ferrites, *Materials Research Bulletin*, Vol. 101, pp. 48-55, 2018. (IF=3.355)
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  22. **Tahir Ahmad**, Syed Shehzad Raza, Muhammad Kamran, M. U. Manzoor, Asma Salman, Studying the Effect of Variation in Volume Fractions of Carbon Fibres on Mechanical and Electrical Properties of Copper based composites, *Journal of Fundamental and Applied Sciences*, 10(2), 23-35, 2018.
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