

# Dr.-Ing. Waseem Amin (PhD)

## List of Publications

- M. R. G. Prasad, A. Biswas, **W. Amin**, S. Gao, N. Vajragupta, A. Hartmaier  
Influence of pore shape on anisotropic mechanical behavior of L-PBF  
manufactured metal by micromechanical modeling, *Advanced Engineering  
Materials* 22, 12, (2020)
- M. A. Ali, I. Lopez-Galilea, **W. Amin**, S. Gao et al.  
Effect of  $\gamma'$  precipitate size on hardness and creep properties of Ni-base single  
crystal superalloys: experiment and simulation, *Materialia*, 12, 100692, (2020)
- M. A. Ali, **W. Amin**, O. Shchyglo, I. Steinbach.  
45-degree rafting in Ni-based superalloys: A combined phase-field and strain  
gradient crystal plasticity study, *International Journal of Plasticity*, 128, 102659,  
(2020)
- **W. Amin**, M. A. Ali, N. Vajragupta, A. Hartmaier.  
Studying grain boundary strengthening by dislocation-based strain gradient crystal  
plasticity coupled with a multi-phase-field model, *Materials*, MDPI, Basel,  
Switzerland, 12, 2977, (2019)
- J. A. Qayyum, K. Altaf, A. Abdul-Rani, **W. Amin** et al.  
Metal injection molding process parameters as a function of filling performance of  
3D printed polymer mold, *MATEC Web of Conferences*, Malaysia, 225, 6, (2018)
- J. K. Engels, S. Gao, **W. Amin**, A. Biswas et al.  
Indentation size effects in spherical nanoindentation analyzed by experiment and  
non-local crystal plasticity, *Materialia*, 3, 21-30, (2018)
- M. A. Hussain, A. Maqbool, F.A. Khalid, M. U. Farooq **W. Amin** et al.  
Improved sinterability of hydroxyapatite functionally graded materials strengthened  
with SS316L and CNTs fabricated by pressureless sintering, *Ceramics  
International*, 41, 10125-10132, (2015)