Prof. Dr. Martin Heilmaier

Current positions
Full professor (W3) for Materials Science and Engineering(since 2011)
Head of the Institute of Applied Materials –Materials Engineering (IAM-WK) at Karlsruhe Institute of Technology (since 2013)

Previous positions (two selected)
Professor (W3) in Physical Metallurgy at TU Darmstadt (2008-2011)
Professor (C4) in Materials Science & Technology at the Otto-von-Guericke University Magdeburg (2002-2008)

Scientific degree
Dipl. Engineer in Materials Science (1988), Dr. Ing. Materials Science (1992), both at University Erlangen-Nürnberg

Recent research topics	High temperature structural materials, intermetallic compounds, high entropy alloys, mechanical testing under extreme environmental conditions
Awards, honours, memberships	Spokesperson and Member of the DFG Review Board 405 "Materials Technology"; Member of Research Council of TU Kaiserslautern; Editor of Elsevier Journal "Intermetallics"

Publications/Patents (5 most important)

- **M. Krüger, S. Franz, H. Saage, M. Heilmaier, J.H. Schneibel, P. Jéhanno, M. Böning, H. Kestler**: Mechanically alloyed Mo-Si-B alloys with a continuous □-Mo matrix and improved mechanical properties, Intermetallics 16 (2008), 933-941, doi:10.1016/j.intermet.2008.04.015
- **J. H. Schneibel, M. Heilmaier, G. Hasemann, T. Shanmugasundaram**: Temperature dependence of the strength of fine- and ultrafine-grained materials, Acta Materialia 59 (2011), 1300-1308, doi:10.1016/j.actamat.2010.10.062
- **B. Gorr, M. Azim, H.-J. Christ, T. Mueller, D. Schliephake, M. Heilmaier**: Phase Equilibria, Microstructure, and High Temperature Oxidation Resistance of Novel Refractory High-Entropy Alloys, J. All. Comp. 624 (2015), 270-278, doi:10.1016/j.jallcom.2014.11.012
- **H. Chen, A. Kauffmann, B. Gorr, D. Schliephake, C. Seemüller, J.N. Wagner, H.-J. Christ, M. Heilmaier**: Microstructure and mechanical properties at elevated temperatures of a new Al-containing refractory high-entropy alloy Nb-Mo-Cr-Ti-Al, J. All. Comp. 661 (2016), 206-215, doi:10.1016/j.jallcom.2015.11.050
- **D. Tomus, Y. Tian, P.A. Rometsch, M. Heilmaier, X. Wu**: Influence of post heat treatments on anisotropy of mechanical behaviour and microstructure of Hastelloy-X parts produced by selective laser melting, Mater. Sci. Eng. A667 (2016), 42-53, doi:10.1016/j.msea.2016.04.086