

Publications

2015

- A. Manzoni, H. Daoud, R. Voelkl, U. Glatzel, N. Wanderka, "Influence of W, Mo and Ti trace elements on the phase separation in $\text{Al}_8\text{Co}_{17}\text{Cr}_{17}\text{Cu}_8\text{Fe}_{17}\text{Ni}_{33}$ based high entropy alloy", submitted to Ultramicroscopy
- A.M. Manzoni, S. Singh, H.M. Daoud, R. Völkl, U. Glatzel, N. Wanderka, "On the optimization of the microstructure and mechanical properties of Al-Co-Cr-Cu-Fe-Ni-Ti – based high entropy alloys", submitted to the Jordan Journal of Physics
- H. M. Daoud, A. M. Manzoni, N. Wanderka and U. Glatzel, "High Temperature Tensile Strength of $\text{Al}_{10}\text{Co}_{25}\text{Cr}_8\text{Fe}_{15}\text{Ni}_{36}\text{Ti}_6$ Compositionally Complex Alloy (High Entropy Alloy)", submitted to JOM

2014

- A.M. Manzoni, A. Denquin, P. Vermaut, I.P. Orench, F. Prima, R.A. Portier, "Shape memory deformation mechanisms of Ru-Nb and Ru-Ta shape memory alloys with transformation temperatures", *Intermetallics*, 52 (2014) 57-63.

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- A. Manzoni, H. Daoud, R. Völkl, U. Glatzel, N. Wanderka, "Phase separation in equiatomic AlCoCrFeNi high-entropy alloy, *Ultramicroscopy*", 132 (2013) 212-215.
- A. Manzoni, H. Daoud, S. Mondal, S. van Smaalen, R. Völkl, U. Glatzel, N. Wanderka, "Investigation of phases in $\text{Al}_{23}\text{Co}_{15}\text{Cr}_{23}\text{Cu}_8\text{Fe}_{15}\text{Ni}_{16}$ and $\text{Al}_8\text{Co}_{17}\text{Cr}_{17}\text{Cu}_8\text{Fe}_{17}\text{Ni}_{33}$ high entropy alloys and comparison with equilibrium phases predicted by Thermo-Calc", *J. Alloys Compd.*, 552 (2013) 430-436.
- H.M. Daoud, A. Manzoni, R. Volkl, N. Wanderka, U. Glatzel, "Microstructure and Tensile Behavior of $\text{Al}_8\text{Co}_{17}\text{Cr}_{17}\text{Cu}_8\text{Fe}_{17}\text{Ni}_{33}$ (at.%) High-Entropy Alloy", *JOM*, 65 (2013) 1805-1814.
- P. Vermaut, A. Manzoni, A. Denquin, F. Prima, R.A. Portier, "Unexpected Constrained Twin Hierarchy in Equiatomic Ru-based High Temperature Shape Memory Alloy Martensite", in: S. Prokoshkin, N. Resnina (Eds.) *European Symposium on Martensitic Transformations*, 2013, pp. 195-199.

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- A. Manzoni, Chastaing, A. Denquin, P. Vermaut, J. van Humbeeck and R. Portier, "The effect of Fe additions on the shape memory effect of Ru-based alloys", *Scripta Mater*, 64 (2011) 1071-1074.
- A. Manzoni, *Alliages à mémoire de forme hautes températures base Ru pour application turbomachines*, PhD thesis, Université Pierre et Marie Curie, Paris, France, 2011.

2010

- A. Manzoni, K. Chastaing, A. Denquin, P. Vermaut and R. Portier, "Phase transformation and shape memory effect in Ru-based high temperature shape memory alloys", *Proceedings PTM 2010*, Avignon, 06-11 June 2010

2009

- A. Manzoni, K. Chastaing, A. Denquin, P. Vermaut, R. Portier, "Shape recovery in high temperature shape memory alloys based on the Ru-Nb and Ru-Ta systems", in: P. Sittner, V. Paidar, L. Heller, H. Seiner (Eds.) *Esomat 2009 - 8th European Symposium on Martensitic Transformations*, Prague, Czech republic, 2009.

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- A. Lasagni, A. Manzoni and F. Mücklich, “Micro/nano fabrication of periodic hierarchical structures by multi-pulsed laser interference structuring”, *Advanced Engineering Materials*, 9, 10, 872-875, 2007