

---

## Laboratory for Joining Technologies & Corrosion

### Publications 2013

---

- A. von Steiger, M. Senn, M. Tuchschnid, H.J. Leber, E. Lehmann, D. Mannes, *Can we look over the shoulders of historical brasswind instrument makers? Aspects of the materiality of nineteenth-century brass instruments in France*, **Historic Brass Society Journal** (2013) 21-38 [DOI: [10.2153/0120130011002](https://doi.org/10.2153/0120130011002)].
- S. Jin, *Characterization and modeling of Au-Ge based high temperature lead-free solder systems*, **Thesis no. 5787**, École Polytechnique Fédérale de Lausanne, 2013 [[source](#)].
- W.J. Lee, B. Weber, C. Czaderski, G. Feltrin, M. Motavalli, C. Leinenbach, *Stress recovery behaviour of an Fe-Mn-Si-Cr-Ni-VC shape memory alloy used for prestressing*, **Smart Materials and Structures** 22 (2013) 125037 [DOI: [10.1088/0964-1726/22/12/125037](https://doi.org/10.1088/0964-1726/22/12/125037)].
- J. Tidblad, A. Gordon, K. Kreislova, M. Faller, D. De la Fuente, T. Yates, A. Verney-Carron, *Convention on long-range transboundary air pollution, UN/ECE international co-operative program on effects on materials, including historic and cultural monuments, Results of corrosion and soiling from the 2011-2012 exposure program for trend analysis 2013*, **Swerea Kimab, Stockholm, Sweden Report No 7272** (2013) 24 pp [[source](#)].
- Y.-C. Chen, E. Goering, L.P.H. Jeurgens, Z. Wang, F. Phillipp, J. Baier, Th. Tietze, G. Schütz, *Unexpected room-temperature ferromagnetism in bulk ZnO*, **Applied Physics Letters** 103 (2013) 162405 [DOI: [10.1063/1.4825268](https://doi.org/10.1063/1.4825268)].
- A. Beni, A. Braun, Th. Huthwelker, J. A. Van Bokhoven, *Meeting Report: Exploratory Workshop on Soft X-rays and Electrochemical Energy Storage and Converters*, **Synchrotron Radiation News** 26 (2013), 36-38 [DOI: [10.1080/08940886.2013.832590](https://doi.org/10.1080/08940886.2013.832590)].
- R. Transchel, F. Heini, J. Stirnimann, F. Kuster, C. Leinenbach, K. Wegener, *Influence of the clearance angle on the cutting efficiency of blunt, octahedral-shaped diamonds in an active filler alloy*, **International Journal of Machine Tools & Manufacture** 75 (2013) 9-15 [DOI: [10.1016/j.ijmachtools.2013.08.001](https://doi.org/10.1016/j.ijmachtools.2013.08.001)].
- N. Weyrich, C. Leinenbach, *Low temperature TLP bonding of Al<sub>2</sub>O<sub>3</sub>-ceramics using eutectic Au-(Ge, Si) alloys*, **Journal of Materials Science** 48 (2013) 7115-7124 [DOI: [10.1007/s10853-013-7526-z](https://doi.org/10.1007/s10853-013-7526-z)].
- M. Türpe, J. Janczak-Rusch, *Löten mit Nanoloten –Theorie versus Realität*, **Tagungsband vom 4. Symposium Produktionstechnik innovativ und interdisziplinär, Institut für Produktionstechnik, Westsächsische Hochschule Zwickau**, Heft 5, (April 2013) 49-52.
- Y.J. Cho, W.J. Lee, S.K. Park, Y.H. Park, *Effect of Pore Morphology on Deformation Behaviors in Porous Al by FEM Simulations*, **Advanced Engineering Materials** 15 (2013) 166-169 [DOI: [10.1002/adem.201200145](https://doi.org/10.1002/adem.201200145)].
- A. Elrefaey, L. Wojarski, J. Janczak-Rusch, W. Tillmann, *Vacuum brazing titanium using thin nickel layer deposited by PVD technique*, **Materials Science and Engineering A** 565 (2013) 180-186 [DOI: [10.1016/j.msea.2012.12.028](https://doi.org/10.1016/j.msea.2012.12.028)].
- G. Piskoty, L. Wullschleger, R. Loser, A. Herwig, M. Tuchschnid, G. Terrasi, *Failure analysis of a collapsed flat gymnasium roof*, **Engineering Failure Analysis** (2013) [DOI: [10.1016/j.engfailanal.2012.12.006](https://doi.org/10.1016/j.engfailanal.2012.12.006)].
- M. Koster, C. Kenel, A. Stutz, W.J. Lee, A. Lis, C. Affolter, C. Leinenbach, *Fatigue and cyclic deformation behavior of brazed steel joints*, **Materials Science & Engineering A** 581 (2013) 90-97 [DOI: [10.1016/j.msea.2013.05.083](https://doi.org/10.1016/j.msea.2013.05.083)].
- J.K. Parle, A. Beni, V.R. Dhanak, J.A. Smerdon, P. Schmutz, M. Wardé, M.-G. Barthés-Labrousse, B. Bauer, P. Gille, H.R. Sharma, R. McGrath, *STM and XPS investigation of the oxidation of the Al<sub>4</sub>(Cr,Fe) quasicrystal approximant*, **Applied Surface Science** 283 (2013) 276-282 [DOI: [10.1016/j.apsusc.2013.06.101](https://doi.org/10.1016/j.apsusc.2013.06.101)].

