Selected Publications 2019

Fischer, M.; Trant, M.; Thorwarth, K.; Patscheider, J.; Hug, H. J. A setup for arc-free reactive DC sputter deposition of Al-O-N. *Surf. Coat. Technol. 2019, 362, 220-224*. https://doi.org/10.1016/j.surfcoat.2019.01.082

Emre, B.; Yıldırım, O.; Duman, E. Investigation of Ti substituting for Ni on magnetic, magnetocaloric and phase transition characteristics of Ni50Mn36In14. *Mater. Res. Express 2019, 6 (7), 076102 (7 pp.)*. https://doi.org/10.1088/2053-1591/ab12a0

Anthis, A. H. C.; Matter, M. T.; Keevend, K.; Gerken, L. R. H.; Scheibler, S.; Doswald, S.; Gogos, A.; Herrmann, I. K. Tailoring the colloidal stability, magnetic separability and cytocompatibility of high-capacity magnetic anion exchangers. *ACS Appl. Mater. Interfaces 2019*. https://doi.org/10.1021/acsami.9b16619

Tozkoparan, O.; Yildirim, O.; Yüzüak, E.; Duman, E.; Dincer, I. Magnetostructural transition in Co-Mn-Ge systems tuned by valence electron concentration. *J. Alloys Compd. 2019, 791, 208-214*. https://doi.org/10.1016/j.jallcom.2019.03.048

Zhao, X.; Mandru, A. O.; Vogler, C.; Marioni, M. A.; Suess, D.; Hug, H. J. Magnetization reversal of strongly exchange-coupled double nanolayers for spintronic devices. *ACS Appl. Nano Mater. 2019*. https://doi.org/10.1021/acsanm.9b01243

Fischer, M.; Trant, M.; Thorwarth, K.; Crockett, R.; Patscheider, J.; Hug, H. J. Understanding the microstructural evolution and mechanical properties of transparent Al-O-N and Al-Si-O-N films. *Sci. Technol. Adv. Mater. 2019, 20 (1), 1031-1042*. https://doi.org/10.1080/14686996.2019.1666425

Baćani, M.; Marioni, M. A.; Schwenk, J.; Hug, H. J. How to measure the local Dzyaloshinskii-Moriya interaction in skyrmion thin-film multilayers. *Sci. Rep. 2019, 9 (1), 3114 (12 pp.)*. https://doi.org/10.1038/s41598-019-39501-x

Meng, K. Y.; Ahmed, A. S.; Baćani, M.; Mandru, A. O.; Zhao, X.; Bagués, N.; Esser, B. D.; Flores, J.; McComb, D. W.; Hug, H. J.; et al. Observation of nanoscale skyrmions in SrIrO3/SrRuO3 bilayers. *Nano Lett. 2019, 19 (5), 3169-3175*. https://doi.org/10.1021/acs.nanolett.9b00596

Falub, C. V.; Pietambaram, S. V.; Yildirim, O.; Meduňa, M.; Caha, O.; Hida, R.; Zhao, X.; Ambrosini, J.; Rohrmann, H.; Hug, H. J. Enhanced permeability dielectric FeCo/Al2O3 multilayer thin films with tailored properties deposited by magnetron sputtering on silicon. *AIP Adv. 2019, 9 (3), 035243 (6 pp.)*. https://doi.org/10.1063/1.5079477