

- G. Lorenzin, B. Rheingans, J. Janczak-Rusch, C. Cancellieri, *Controlled Directional Cu Outflow in Cu/W Nanomultilayers*, **Journal of Materials Engineering and Performance** (2024) [DOI: [10.1007/s11665-024-09763-2](https://doi.org/10.1007/s11665-024-09763-2)].
- R. Zhao, R. Hauert, R. Crockett, C. Cancellieri, S. Gaan, P. Schmutz, M. Heuberger, L.P.H. Jeurgens, *Aqueous Phosphonic Acid Treatments of Aluminium: Effect of Oxide Dissolution and Re-Oxidation on Adsorbate Formation*, **Applied Surface Science** 667 (2024) 160363 [DOI: [10.1016/j.apsusc.2024.160363](https://doi.org/10.1016/j.apsusc.2024.160363)].
- J. Yeom, G. Lorenzin, L. Ghisalberti, C. Cancellieri, J. Janczak-Rusch, *The thermal stability and degradation mechanism of Cu/Mo nanomultilayers*, **Science and Technology of Advanced Materials** (2024) [DOI: [10.1080/14686996.2024.2357536](https://doi.org/10.1080/14686996.2024.2357536)].
- T. Avramenko, S. Michel, J. Kollender, I. Burda, U. Hans, C. Affolter, *Review on Environmentally Assisted Static and Fatigue Cracking of Al-Mg-Si-(Cu) Alloys*, **Metals** 14 (2024) 621 [DOI: [10.3390/met14060621](https://doi.org/10.3390/met14060621)].
- L.P.H. Jeurgens, C. Cancellieri, A. Borgschulte, J.F. Watts, editorial: *Advancements and challenges of HAXPES for materials sciences and technologies*, **Surface and Interface Analysis** (2024) [DOI: [10.1002/sia.7318](https://doi.org/10.1002/sia.7318)].
- Y. Müller, A. Antušek, L.P.H. Jeurgens, V. Turlo, *Anomalous low vacancy formation energies and migration barriers at Cu/AlN interfaces from ab initio calculations*, **Scripta Materialia** 248 (2024) 116126 [DOI: [10.1016/j.apsusc.2024.159994](https://doi.org/10.1016/j.apsusc.2024.159994)].
- S. Gramatte, V. Turlo, O. Politano, *Do we really need machine learning interatomic potentials for modeling amorphous metal oxides? Case study on amorphous alumina by recycling an existing ab initio database*, **Modelling and Simulation in Materials Science and Engineering** 32 (2024) 045010 [DOI: [10.1088/1361-651X/ad39ff](https://doi.org/10.1088/1361-651X/ad39ff)].
- G. Lorenzin, J.F. Troncoso, M. Liyanage, A.V. Druzhinin, L.P.H. Jeurgens, C. Cancellieri, V. Turlo, *Experimental and ab initio derivation of interface stress in nanomultilayered coatings: Application to immiscible Cu/W system with variable in-plane stress*, **Applied Surface Science** 661 (2024) 159994 [DOI: [10.1016/j.apsusc.2024.159994](https://doi.org/10.1016/j.apsusc.2024.159994)].
- R. Cestaro, P. Schmutz, *Chemical stability and reactivity of electrochemically grown manganese oxide films*, **Electrochimica Acta** 487 (2024) 144097 [DOI: [10.1016/j.electacta.2024.144097](https://doi.org/10.1016/j.electacta.2024.144097)].
- A.V. Druzhinin, J. Janczak-Rusch, C. Cancellieri, *Ag Surface Outflow Kinetics in Ag/AlN Nanomultilayers*, **Physica Status Solidi A** (2024) 2300876 [DOI: [10.1002/pssa.202300876](https://doi.org/10.1002/pssa.202300876)].
- M. Klimpel, H. Zhang, G. Paggiaro, R. Dubey, F. Okur, L.P.H. Jeurgens, K.V. Kravchyk, M.V. Kovalenko, *Assessment of Critical Stack Pressure and Temperature in Li-Garnet Batteries*, **Advanced Materials Interfaces** (2024) 2300948 [DOI: [10.1002/admi.202300948](https://doi.org/10.1002/admi.202300948)].
- C. Cancellieri, S. Gramatte, O. Politano, L. Lapeyre, F.F. Klimashin, K. Mackosz, I. Utke, Z. Novotny, A.M. Müller, C. Vockenhuber, V. Turlo, L.P.H. Jeurgens, *Effect of hydrogen on the chemical state, stoichiometry and density of amorphous Al₂O₃ films grown by thermal atomic layer deposition*, **Surface and Interface Analysis** (2024) 1-12 [DOI: [10.1002/sia.7282](https://doi.org/10.1002/sia.7282)].
- C.W.P. Pare, P. Rzepka, P. Hemberger, A. Bodi, R. Hauert, J.A. van Bokhoven, V. Paunovic, *Formaldehyde-Induced Deactivation of ZSM-5 Catalysts during the 2 Methanol-to-Hydrocarbon Conversion*, **ACS Catalysis** 14 (2024) 463-474 [DOI: [10.1021/acscatal.3c04279](https://doi.org/10.1021/acscatal.3c04279)].

- J.F. Troncoso, G. Lorenzin, C. Cancellieri, V. Turlo, *Explaining the effect of in-plane strain on thermal degradation kinetics of Cu/W nano-multilayers*, **Scripta Materialia** 242 (2024) 115902 [DOI: [10.1016/j.scriptamat.2023.115902](https://doi.org/10.1016/j.scriptamat.2023.115902)].
- C.-O.A. Olsson, R. Hauert, A. Neus Igual-Muñoz, S. Mischler, P. Schmutz, *Revealing cation and metal gradients in and underneath passive films of the stainless steel 1.4652 in acidic and alkaline electrolytes with angular resolved dual energy X-ray photoelectron spectroscopy*, **Surface and Interface Analysis** 56 (2024) 267-282 [DOI: [10.1002/sia.7275](https://doi.org/10.1002/sia.7275)].