



# MLZ User Meeting 2021

## Wednesday, 8 December 2021

### Poster Session II (10:30 - 12:00)

[id] title	presenter	board
[14] A Unique Quenching and Deformation Dilatometer for Combined In Situ Neutron Diffraction Analysis of Engineering Materials	LI, Xiaohu	P-1
[58] Investigation and Tuning of Slot-Die Coated Perovskite Solar Cells Using X-Ray Diffraction	Mr VITALONI , Andrea	P-9
[13] GISANS study on whey protein and titania interfaces: Influence of pH on spray deposited biohybrid film morphology	Mr HEGER, Julian E.	P-28
[42] Tack Properties of Pressure-Sensitive Adhesives: Development of Industry-conform Measurement Techniques	KÖRSTGENS, Volker	P-29
[127] Silicon detector for neutron beta decay measurements with PERC	LEBERT, Manuel	P-33
[9] Tailoring the Optical Properties of Sputter-Deposited Gold Nanostructures on Nanostructured Titanium Dioxide Templates	LIANG, Suzhe	P-34
[25] Fast Neutron Imaging with Semiconductor Nanocrystal Scintillators	SAKHATSKYI, Kostiantyn	P-35
[29] X-ray Diffraction Studies on the Lithiation of LiAl Electrodes for Lithium Ion Batteries	Mr PHAM, Thien An	P-36
[37] Na-ion diffusion in NASICON solid electrolyte material studied by Quasi-Elastic Neutron Scattering	PIVARNÍKOVÁ, Ivana	P-37
[39] In-situ characterisation of the newly developed VDM® Alloy 780 via x-ray diffraction using synchrotron radiation	FRITTON, Massimo	P-38
[44] Interfacial structure and dynamics for PbS quantum dot solar cells	ZHONG, Huaying	P-39
[50] Operando study of humidity on the performance of perovskite solar cell	Mr SUN, Kun	P-40
[57] Improvement of the thermoelectric properties of PEDOT:PSS films via DMSO addition and DMSO/salt post-treatment resolved from a fundamental view	TU, Suo	P-41
[63] Investigating the HiPIMS deposition of gold onto polymers	BULUT, Yusuf	P-43
[83] Optimization of printed Perovskite Solar Cells using X-Ray scattering	LINDENMEIR, Christoph	P-44
[94] Printed block copolymer templated ZnO photoanodes for photovoltaic applications	TIAN, Ting	P-45
[99] Decoding the Self-assembled Plasmonic Nano-structure in Colloidal Quantum Dots for Photodetectors	GUAN, Tianfu	P-46
[100] Hybrid Energy Harvester based on Triboelectric Nanogenerator and Solar Cell	XIAO, TIANXIAO	P-47
[117] Design, Fabrication and Nano-Scale Characterization of Novel SEI Layers	XU, Zhuijun	P-48
[128] Dynamic structure evolution of extensively de-lithiated high voltage spinel $\text{Li}_{1+x}\text{Ni}_{0.5}\text{Mn}_{1.5}\text{O}_4$ $x < 1.5$	JOBST, Nicola	P-49
[76] Thin film fabrication in a new laboratory	PÜTTER, Sabine	P-50
[80] Magnetic phase diagram of Dy/Co superlattices	MAKAROVA, Marina	P-51

<b>[67] Self-compensated Neutron Super Mirror Magnetic Yoke to Reduce Stray Fields</b>	BABCOCK, Earl	P-52
<b>[70] Evaluation and comparison of scattering data driven molecular dynamics simulations of water models</b>	REICH, Veronika	P-53
<b>[123] Elemental characterization by PGAA to support decommissioning activities</b>	MOSSINI, Eros	P-54
<b>[15] Functionalizing cellulose nanofibril films</b>	ROTH, Stephan	P-55
<b>[41] Co-Nonsolvency Transition of PNIPMAM-based Block Copolymer Thin Films in Water/Acetone Mixtures</b>	WANG, Peixi	P-57
<b>[45] Influence of Hofmeister Salts on the Swelling Behavior of PNIPMAM Thin Films</b>	REITENBACH, Julija	P-58
<b>[47] Grating incidence scattering as a method to understand the influence of non-halogenated solvents on the morphology of organic solar cells</b>	SPANIER, Lukas	P-59
<b>[64] Water Dynamics in Aqueous Poly(N-isopropylacrylamide) Solutions with a Methanol Cosolvent</b>	SCHULTE, Alfons	P-60
<b>[109] Effects of polymer block length asymmetry and temperature on the nanoscale morphology of thermoresponsive double hydrophilic block copolymers in aqueous solutions</b>	VAGIAS, Apostolos	P-61
<b>[120] Structure and dynamics of supramolecular poly(ethylene) oxide polymer blends</b>	BRÁS WÜRSCHIG, Ana	P-62
<b>[132] Self-assembly of polymer coated iron oxide nanoparticles in magnetic field</b>	FOKINA, Vladislava	P-63
<b>[28] Critical Review of symmetry and structure relationships in graphite intercalation compounds (GICs) and their practical use for lithium ion battery materials</b>	Dr SEIDLMAYER, Stefan	P-64
<b>[110] Superstructure in inverse perovskite nitrides</b>	LINK, Lukas	P-65