PERSONAL DETAILS & CONTACT INFORMATION

Martin Månsson

Swedish Nationality
Engaged to be married
1 daughter (2020)
Tel. +46 – (0)8 – 790 4094

KTH Royal Institute of Technology
Department of Applied Physics, Group of Sustainable Materials Research & Technologies
Google Scholar ID: **idnNE34AAAAJ**
Res. ID: **C-1134-2014**
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Web: **https://www.kth.se/profile/condmat/**

CURRENT POSITION

2018.06 → **Associate Professor (Lektor as well as Docent since 29th January 2019)**
Department of Applied Physics, Royal Institute of Technology (KTH), Stockholm, Sweden

PREVIOUS POSITIONS & DEGREES

2001 **Apprentice (ABB)**
ABB Corporate Research, Västerås, Sweden

2007.12.13 **PhD in Physics**
Materials Physics, KTH Royal Institute of Technology, Stockholm, Sweden

2008.01.13 → **Postdoc**
2010.12.31 *Laboratory for Neutron Scattering, Paul Scherrer Institute (PSI), Switzerland*

2011.01 → **Instrument Scientist / Researcher**
2012.12 *Laboratory for Solid State Physics,* **ETH Zürich**, *Switzerland*

2013.02 → **Neutron Beamline Manager / Scientific Collaborator**
2014.12 *Laboratory for Quantum Magnetism,* **EPF Lausanne**, *Switzerland*

2015.01 → **Assistant Professor, tenure track**
2018.06 *Department of Applied Physics, Royal Institute of Technology (KTH), Stockholm, Sweden*

AWARDS & GRANTS

2023 → 2026 PI of the granted VR project (**4 MSEK**) for novel organic quantum materials
2023 → 2025 PI of the granted Carl Trygger's Foundation (CTS) project (**0.6 MSEK**) on quantum materials
2023 → 2026 Co-PI of the granted VR funding (**25 MSEK**) for Swedish in-kind contribution to ESS
2022 → 2026 PI of SCI funding for Excellence PhD project (**~4 MSEK**), Ugne Miniotaite, Topological Materials
2022 → 2026 PI of SwedNess funding for PhD project (**4.6 MSEK**), Frank Elson, Quantum Materials
2021 → 2024 Co-PI of the granted VR funding (**10 MSEK**) for a Swedish ESS neutron instrument project (SAGA)
2021 → 2026 Co-PI of the granted VR funding (**16 MSEK**) for polarized neutron scattering at ESS & ISIS
2016 → 2029 PI (with UU) of funding (**260 MSEK**) for a National Graduate School in Neutron Scattering (SwedNess) + Postdoc Program, Swedish Foundation for Strategic Research (SSF)
2018 → 2020 PI Carl Trygger's Foundation (CTS) project funding: Uni-axial pressure device (**0.5 MSEK**)
2017 → 2022 PI of SwedNess funding for PhD project (**4.5 MSEK**), Elisabetta Nocerino, Quantum Materials
2017 → 2019 PI Carl Trygger's Foundation (CTS) postdoc funding: Materials synthesis of novel organometallic quantum materials (**0.6 MSEK**).
2017 → 2018 PI KTH central postdoc grant: Advanced characterization of nano materials (**2 MSEK**)
2017 → 2020 PI and main proposer of the approved VR project grant in neutron scattering related to novel quantum materials (**11 MSEK**).
2016 → 2019 PI Carl Trygger's Foundation (CTS) project grant, novel energy materials (**0.3 MSEK**)
2015 → 2018 PI 4-year International Career Grant, Marie Skłodowska Curie Actions, 'Excellent Science' pillar, Horizon 2020, European Commission & the Swedish Research Council VR (**8 MSEK**).

SCIENTIFIC ACHIEVEMENTS & RESPONSIBILITIES

2003 → Author/co-author of 196 peer-reviewed scientific publications (h-index: 38 and i10-index: 109) including publications in Chemical Society Reviews, Nature Physics, Nature Communications, Physical Review Letters, Nature Scientific Reports, & Physical Review B.

2003 → >400 conference/workshop contributions with ~60 invited/plenary talks, e.g. Gordon Research Conference (GRC), MRS Spring Meeting, Röntgen Ångström Cluster Schools.

2003 → Extremely large & scientifically wide international collaboration network in academia (e.g. ETHZ, EPFL, UBC, Univ. Tokyo, Max Planck Inst.), large-scale facilities (e.g. ORNL, ILL, ESRF, PSI, ISIS, J-PARC, HZB, DESY, SPring-8, ESS, MAX IV) & industry (e.g. Toyota, AIST, IBM).

2011 → 2014 **Beamline Manager/Instrument Responsible** for the cold neutron triple-axis spectrometer (TASP) at the Swiss Spallation Neutron Source (SINQ).

2008 → 2011 **Coordinator & Lead Scientist** in a joint research project on energy materials between Swiss academia (PSI/EHTZ) and Japanese industry (Toyota CRDL).

2008 → 2011 **Responsible for the physical material properties measurement laboratory**
Paul Scherrer Institute (PSI), Switzerland

2000 → 2007 **Responsible for the time-resolved fs pump-probe laser-laboratory**
Materials Physics, KTH Royal Institute of Technology

PEDAGOGICAL EXPERIENCE

2016 → Director of Study for the Swedish national graduate school in neutron scattering (SwedNess)

2016 → Supervision of 11 PhD Students (2 finished at KTH, 4 current main supervisor, 5 assistant supervision) + 3 Postdoc (2 finished)

2015 → Teacher, undergraduate/MSc/PhD level, KTH Royal Institute of Technology, Stockholm, Sweden

2008 → Assisted supervision of 10 PhD student theses (in Switzerland at PSI / ETHZ / EPFL).

2005 → Supervised/Examined 10 MSc diploma theses

2014 → Invited lecturer at the Baltic Neutron School and the ISIS muon school in Oxford

2012 – 2014 Responsible for the advanced practicum in Neutron Scattering at the Swiss Spallation Neutron Source for EPF Lausanne, ETH Zurich and University of Basel

COMMISSIONS, EXPERT PANELS & COMMUNITY CONTRIBUTIONS

- Director of Studies, Swedish National Graduate School in neutron scattering (SwedNess)
- Member of the Scientific Advisory Committee, Swiss Spallation Neutron Source (SINQ) at PSI
- Chair of the evaluation committee for VR ESS/J-PARC SAKURA Mobility Grant (2019 – …)
- Main Organizer of the Swedish Neutron Week 2019 and 2023 (co-organizer 2018, 2021, and 2022)
- External Expert Evaluator for the Swedish Research Council (VR)
- Expert Evaluator for the Natural Sciences and Engineering Research Council (NSERC) of Canada
- External Expert Evaluator for hiring/promotion committee (Lektor) at Lund University
- Opponent at 2 Thesis Defenses, Committee Member for 6 PhD thesis defenses.
- Responsible for Large-scale facilities at KTH Materials Platform and neutron/ESS strategies at KTH
- Responsible for the KTH Strategy Document for MAX IV, ESS and PETRA III (2022-230), which was handed over to the KTH President December 2021
- Member of the KTH Research Infrastructure Group (fo-infra gruppen, Mikael Östling / Mikael Lindström)
- Former Member of the VR reference group for a Swedish Neutron Strategy towards ESS
- Former Member (2017-2019) of Scientific Advisory Committee (SAC), European Spallation Source (ESS)
- Member of the Muon International Advisory Review Committee (MAC) at J-PARC, Japan
- Proposal Committee Member of PSI/Switzerland, ISIS/UK, J-PARC/Japan and SNS/USA
- President of the International Society for Muon Spin Spectroscopy (ISMS) (also former vice President)
- Board Member of The Swedish Neutron Scattering Society (SNSS)
- Referee for Springer, Nature, American Physical Society (APS), American Institute of Physics (AIP), and Royal Society of Chemistry (RSC).
- Organizing committee / Scientific Advisory board, RACIRI summer school 2016, 2017, 2019 & 2020
- >15 years of experience working in collaborations with industry (Toyota CRDL, AIST Japan, IBM)
- Initiator and KTH PI for a Swedish instrument project at ESS (SAGA: https://sagaproject.squarespace.com/)

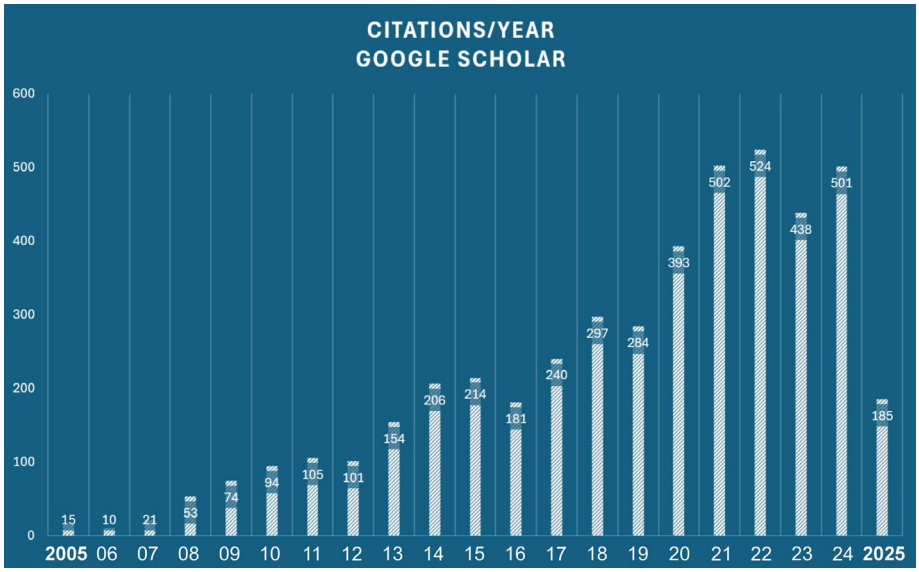
REFERENCES

Prof. Jonas Weissenrieder	KTH, Dept. Applied Physics	jonas@kth.se
Director Prof. Christian Rüegg	Paul Scherrer Institut, Switzerland	christian.rueegg@psi.ch
President Prof. Joël Mesot	ETH Zürich, Switzerland	president@ethz.ch
Prof. Em. Jess H. Brewer	University of British Columbia, Canada	jess@triumf.ca
Dr. Jun Sugiyama	CROSS Japan, J-PARC	juns@triumf.ca
Prof. Henrik Rønnow	EPF Lausanne, Switzerland	henrik.ronnow@epfl.ch
Prof. Em. Ulf O. Karlsson	KTH, Materials Physics, Sweden	ulfka@kth.se
Director Prof. Naohito Saito	KEK / J-PARC, Japan	naohito.saito@kek.jp

Publication List *(Last 5 years)*

Summary/Statistics

Total Publications/Articles:	196 *(peer-reviewed and published/accepted)*
Total Citations:	~4650
h-index:	38
i10-index:	112
Web Publication List:	https://www.kth.se/profile/condmat/
ResearcherID:	C-1134-2014
Google Scholar:	https://scholar.google.se/citations?user=idnNE34AAAAJ&hl=en&oi=sra
Books/Chapters:	1
Popular Science/Highlights:	35



Data from Google Scholar on 2025-05-10

Pre-prints

[#219]

Magnetic Domain Suppression in Fe/Si Multilayers with $^{11}B_4C$ Integration for Polarizing Neutron Optics

Anton Zubayer, Artur Glavic, Naureen Ghafoor, Yuqing Ge, Yasmine Sassa, Martin Månsson, Andreas Suter, Thomas Prokscha, Zaher Salman, Wai-Tung Lee, Kristbjörg Anna Thórarinsdóttir, Arnaud Le Febvrier, Per Eklund, Jens Birch, Fridrik Magnus, Sean Langridge, Andrew Caruana, Christy Kinane, Fredrik Eriksson

arXiv preprint arXiv:2502.07515 (2025)

[#218]

Refined magnetic structure of VI_3

Ola Kenji Forslund, Yuqing Ge, Hiroto Ohta, Chennan Wang, Mahmoud Abdel-Hafiez, Jun Sugiyama, Martin Månsson, Yasmine Sassa

Submitted for Publication (2025) - arXiv:2210.17455 [https://doi.org/10.48550/arXiv.2210.17455]

[#217]

Lifshitz-Enhanced Superfluid Density in Two-Gap Superconducting $TiSe_2$

F. Elson, J. Philippe, G. Simutis, O. K. Forslund, M. Abdel-Hafiez, M. Janoschek, R. Khasanov, D. Das, J. Weissenrieder, D. Tam, Y. Sassa, and M. Mansson

Nature NPJ Quantum Materials - Submitted for Publication (2025)

[#216]
Study of Na+ self-diffusion in $Na_2Ni_{2-x}Co_xTeO_6$ honeycomb layered oxides with μ^+SR (x = 0.0, 1.0, and 1.5)
Rasmus Palm, Anton Zubayer, Elisabetta Nocerino, Frank Elson, Nami Matsubara, Ola Kenji Forslund, Jun Sugiyama, Takashi Kamiyama, Titus Masese, Masahiro Shikano, Stephen Cottrell, Yasmine Sassa, and Martin Mansson
Submitted for Publication (2025)

[#215]
Surface coatings to mitigate phase separation in lithium ion battery active materials during fast discharge
Peter Benedek, Xueyan Zhao, Emanuel Billeter, Annina Moser, Ola Kenji Forslund, Nami Matsubara, Elisabetta Nocerino, Stephen Cottrell, Marisa Medarde, Yasmine Sassa, Ramesh Shunmugasundaram, Andreas Borgschulte, Fanni Juranyi, Martin Månsson, and Vanessa Wood
Joule (2025) – Re-Submitted for Publication

[#214]
Charge order stabilized quantum spin liquid in the Hollandite $K_2V_8O_{16}$
Ola Kenji Forslund, Elisabetta Nocerino, Masahiko Isobe, Daniel Andreica, Stephen Cottrell, Hidenori Takagi, Yasmine Sassa, Jun Sugiyama, and Martin Månsson
Submitted for Publication (2025) - https://arxiv.org/abs/2111.06177

[#213]
Quantum criticality in $K_2V_8O_{16}$ under pressure
Ola Kenji Forslund, Daniel Andreica, Jun Sugiyama, Elisabetta Nocerino, Nami Matsubara, Hidenori Takagi, Gediminas Simutis, Rustem Khasanov, Masahiko Isobe, Yasmine Sassa, and Martin Månsson
Submitted for Publication (2025)

[#212]
Tuning $K_{2-x}Rb_xV_8O_{16}$ with chemical pressure: from a charge order stabilized quantum spin liquid to partially ordered state
Ola Kenji Forslund, Masahiko Isobe, Hidenori Takagi, Oren Ofer, Eduardo J. Ansaldo, Jess H. Brewer, Gerald Morris, Bassam Hitti, Donald Arseneau, Kim H. Chow, Jun Sugiyama and Martin Månsson
Submitted for Publication (2025)

[#211]
Structure-driven topological phase transition in a quasi-one-dimensional ferromagnetic Weyl semi-metal
Ola Kenji Forslund, Chin Shen Ong, Nicolas Gauthier, Hiroshi Uchiyama, Daniel Mazzone, Masafumi Horio, Nami Matsubara, Elisabetta Nocerino, Deepak John Mukkattukavil, Konstantinos Papadopoulos, Kazuya Kamazawa, Kazuhiko Ikeuchi, Romain Franck Sibille, Antonio Moreira dos Santos, Hidenori Takagi, Masahiko Isobe, Jun Sugiyama, Johan Chang, Yasmine Sassa, Olle Eriksson, and Martin Mansson
Submitted for Publication (2025)

[#210]
High-Pressure Neutron Diffraction on Quasi-1D Hollandite $K_2Cr_8O_{16}$
Ola Kenji Forslund, Elisabetta Nocerino, Masahiko Isobe, Hidenori Takagi, Antonio M. dos Santos, Jun Sugiyama, Yasmine Sassa and Martin Månsson
Submitted for Publication (2025)

[#209]
Short range correlations in the Tomonaga-Luttinger liquid phase of $BaCo_2V_2O_8$
Ola Kenji Forslund, Yasmine Sassa, Konstantinos Papadopoulos, Tatsuo Goko, Robert Johann Scheuermann, Jess Brewer, Bassam Hitti, Krunoslav Prsa, Jun Sugiyama, Masayuki Hagiwara and Martin Månsson
Submitted for Publication (2025)

[#208]
Spin dynamics in the Van der Waals magnet $CrCl_3$
Ola Kenji Forslund, Konstantinos Papadopoulos, Elisabetta Nocerino, Gaia Di Berardino, Chennan Wang, Jun Sugiyama, Daniel Andreica, Alexander N. Vasiliev, Mahmoud Abdel-Hafiez, Martin Månsson and Yasmine Sassa
Submitted for Publication (2025) - https://arxiv.org/abs/2111.06246

[#207]
Magnetic Order & Spin Dynamics in the Honeycomb Family $A_2Ni_2TeO_6$ (A = Li, Na and K)
Ola Kenji Forslund, Jun Sugiyama, Elisabetta Nocerino, Anton Zubayer, Rasmus Palm, Frank Elson, Nami Matsubara, Fredrik O.L. Johansson, Masahiro Shikano, Titus Masese, Zurab Guguchia, Gerald Morris, Bassam Hitti, Donald Arseneau, Daniel Andreica, Yasmine Sassa and Martin Månsson
Submitted for Publication (2025)

[#206]
Li diffusion in single crystal $LiFePO_4$ measured by muon spin spectroscopy
Ola Kenji Forslund, Rasmus Toft-Petersen, David Vaknin, Natalija van Well, Mark Telling, Yasmine Sassa, Jun Sugiyama, Martin Månsson and Fanni Juranyi
Submitted for Publication (2025) - https://arxiv.org/abs/2111.11941

[#205]
Phonon Assisted Ion Diffusion in Electrochemically cycled Na^xCoO_2
Ola Kenji Forslund, Elisabetta Nocerino, Izumi Umegaki, Claude Delmas, Akihiro Koda, Anton Zubayer, Jun Sugiyama, Yasmine Sassa and Martin Månsson
Submitted for Publication (2025)

[#204]
Phase diagram of the perovskite solid solution $CaCu_3Ti_{(4-x)}Ru_xO_{12}$ elucidated with bulk μ^+SR
E. Nocerino, O. K. Forslund, F. Elson, R. Palm, U. Miniotaite, Y. Ge, T.-H. Kao, H.-D. Yang, H. Sakurai, K. Papadopulos, Y. Sassa, J. Sugiyama, and M. Mansson
Submitted for Publication (2025)

[#203]
Pressure dependent magnetic properties of the Q1D solid Solution $Ca_{1-x}Na_xCr_2O_4$ studied with neutrons muons and X-Rays
Elisabetta Nocerino, Hiroya Sakurai, Ola K. Forslund, Konstantinos Papadopoulos, Deepak J. Mukkattukavil, Nami Matsubara, Daniel Andreica, Hiroshi Nozaki, Gediminas Simutis, Roustem Khassanov, Jean-Christophe Orain, Naoki Ishimatsu, Naomi Kawamura, Craig L. Bull, Nick P. Funnell, Jun Sugiyama, Izumi Umegaki, Yasmine Sassa, and Martin Mansson
Physical Review B - Submitted for Publication (2025)

[#202]
Superconducting properties of the thin film $LiTi_2O_4$ spinel compound investigated by Low-Energy μ^+SR
Elisabetta Nocerino, Yasmine Sassa, Andreas Suter, Ola K. Forslund, Daniel Andreica, Hiroshi Nozaki, Izumi Umegaki, Daisuke Imazeki, Kazunori Nishio, Taro Hitosugi, Thomas Prokscha, Zaher Salman, Jun Sugiyama, and Martin Mansson
Submitted for Publication (2025)

[#201]
Neutron diffraction study of $Li_2Ni_2TeO_6$: quasi-1D Li-ion diffusion paths and collinear antiferromagnetic ordering
Elisabetta Nocerino, Nami Matsubara, Rasmus Palm, Ola Kenji Forslund, Anton Zubayer, Federico Mazza, Masahiro Shikano, Titus Masese, Konstantinos Papadopoulos, Josef Rizell, Takashi Kamiyama, Takashi Saito, Pascal Manuel, Dmitry D. Khalyavin, Alexei Kalaboukhov, Jun Sugiyama, Yasmine Sassa, Martin Mansson
Submitted for Publication (2025)

[#200]
Inelastic neutron scattering study of lignin-derived non-graphitisable carbon
Alice Gratrex, Hamish Cavaye, Stewart Parker, Omid Hosseinaei, Martin Månsson, Göran Lindbergh
Re-submitted for Publication (2025)

[#199]
Frozen magnetism in the triangular perovskite compounds, $Ba_3MIr_2O_9$ (M=Sc,Y) despite highly frustrated magnetism and strong spin orbit coupling
J. C. Orain, P. Freeman, P. Mendels, M. Månsson, H. M. Rønnow, M. Telling, T. Dey, A. V. Mahajan, and F. Bert
Submitted for Publication (2025)

[#198]
Magnetic nano-fluctuations in a frustrated magnet
K. Prša, M. Laver, M. Månsson, S. Guerrero, P. M. Derlet, I. Zivkovic, H. T. Yi, L. Porcar, O. Zaharko, S. Balog, J. L. Gavilano, J. Kohlbrecher, B. Roessli, C. Niedermayer, J. Sugiyama, C. Garcia, H. M. Rønnow, C. Mudry, M. Kenzelmann, S.–W. Cheong and J. Mesot
Resubmitted for publication (2025) - arXiv:1404.7398

[#197]
Complete decoupling of magnetic order and superconductivity in a conventional superconductor
D. G. Mazzone, R. Sibille, J. L. Gavilano, M. Bartkowiak, M. Månsson, M. Frontzek, O. Zaharko, J. Schefer, M. Kenzelmann
Re-submitted for publication (2025), arXiv:1508.02649

Books / Book Chapters

[#189]
Muon Spectroscopy: an introduction
S. J. Blundell (ed.), et al.
M. Månsson: Chapter Author
Oxford University Press (OUP), November 2021
Online ISBN: 9780191891557
Print ISBN: 9780198858959

Published/Accepted Peer-reviewed Articles

[#196]
Deciphering Transition Metal Diffusion in Anode Battery Materials: A Study on Nb Diffusion in $Nb_xTi_{1-x}O_2$
Ola Kenji Forslund, Carmen Cavallo, Johan Cedervall, Jun Sugiyama, Kazuki Ohishi, Akihiro Koda, Alessandro Latini, Aleksandar Matic, Martin Mansson, and Yasmine Sassa
Carbon Energy – Accepted for Publication (2025)

[#195]
Renewed magnetic phase diagram of NaxCoO2 synthesized by an electrochemical reaction
Ola Kenji Forslund, Jun Sugiyama, Daniel Andreica, Nami Matsubara, Elisabetta Nocerino, Izumi Umegaki, Calvin Brett, Stephan Roth, L. Daniel Söderberg, Thomas Hansen, Akinori Hoshikawa, Jean-Christophe Orain, Claude Delmas, Yasmine Sassa and Martin Månsson
Physical Review Research - Accepted for Publication (2025)

[#194]
$(C_5H_9NH_3)_2CuBr_4$: A metal-organic two-ladder quantum magnet
J Philippe, Frank Elson, NPM Casati, S Sanz, M Metzelaars, O Shliakhtun, Ola K Forslund, J Lass, T Shiroka, A Linden, DG Mazzone, J Ollivier, S Shin, M Medarde, B Lake, Martin Månsson, M Bartkowiak, B Normand, P Kögerler, Y Sassa, M Janoschek, G Simutis
Physical Review B 110 (9), 094101 (2024)

[#193]
Magnetic phase diagram of $Eu_{1-x}Ca_xCo_2P_2$ determined using muon spin rotation and relaxation
Izumi Umegaki, Kodai Moriyama, Kohei Yoshinaga, Kazuki Ohishi, Frank Elson, Ugne Miniotaite, Rasmus Palm, Martin Månsson, Ola Kenji Forslund, Yasmine Sassa, Soh Sugiyama, Gerald D Morris, Bassam Hitti, Chishiro Michioka, Hiroaki Ueda, Kazuyoshi Yoshimura, Jun Sugiyama
Physical Review B 109 (14), 144408 (2024)

[#192]
Influence of the copper nanocluster content on the virucidal activity against SARS-CoV-2 of electrospun poly(vinylidene difluoride) filter materials
H. Bulgarin, T. Thomberg, A. Lust, J. Nerut, M. Koppel, T. Romann, R. Palm, M. Månsson, M. Vana, H. Junninen, M. Külaviir, P. Paiste, K. Kirsimäe, M. Punapart, L. Viru, A. Merits, E. Lust
iScience Cell Press **27**, 109835 (2024)

[#191]
Quantum oscillation signatures of the Bloch-Grüneisen temperature in the Dirac semimetal $ZrTe_5$
S Galeski, K Araki, Ola K Forslund, R Wawrzyńczak, HF Legg, PK Sivakumar, U Miniotaite, F Elson, M Månsson, C Witteveen, FO Von Rohr, AQR Baron, D Ishikawa, Q Li, G Gu, LX Zhao, WL Zhu, GF Chen, Y Wang, SSP Parkin, D Grobunov, S Zherlitsyn, B Vlaar, DH Nguyen, S Paschen, P Narang, C Felser, J Wosnitza, T Meng, Y Sassa, SA Hartnoll, J Gooth
Physical Review B 110 (12), L121103 (2024)

[#190]
Tuning of charge order by uniaxial stress in a cuprate superconductor
Laure Thomarat, Frank Elson, Elisabetta Nocerino, Debarchan Das, Oleh Ivashko, Marek Bartkowiak, Martin Månsson, Yasmine Sassa, Tadashi Adachi, Martin v Zimmermann, Hubertus Luetkens, Johan Chang, Marc Janoschek, Zurab Guguchia, Gediminas Simutis
Communications Physics 7 (1), 271 (2024)

[#189]
Cr-Cr distance and magnetism in the novel triangular lattice antiferromangets LiCrSe2, LiCrTe2 and NaCrTe2: A systematic μ+SR study
Elisabetta Nocerino, Jun Sugiyama, Jess H. Brewer, Ola K. Forslund, Izumi Umegaki, Hiroshi Nozaki, Shintaro Kobayashi, Kazuyoshi Yoshimura, Yasmine Sassa, and Martin Mansson
Physical Review Materials **8**, 084403 (2024)

[#188]
Disentangling the self-diffusional dynamics of H_2 adsorbed in micro-and mesoporous carbide-derived carbon by wide temporal range quasi-elastic neutron scattering
Miriam Koppel, Rasmus Palm, Riinu Härmas, Mark Telling, Manh Duc Le, Tatiana Guidi, Kenneth Tuul, Maarja Paalo, Laura Kalder, Jacek Jagiello, Tavo Romann, Jaan Aruväli, Martin Månsson, Enn Lust
Carbon **219**, 118799 (2024)

[#187]
Unlocking the porosity of Fe–N–C catalysts using hydroxyapatite as a hard template en route to eco-friendly high-performance AEMFCs
Patrick Teppor, Rutha Jäger, Miriam Koppel, Olga Volobujeva, Rasmus Palm, Martin Månsson, Eneli Härk, Zdravko Kochovski, Jaan Aruväli, Kuno Kooser, Sari Granroth, Tanel Käämbre, Jaak Nerut, Enn Lust
Journal of Power Sources **591**, 233816 (2024)

[#186]
Na-ion Dynamics in the Solid Solution $Na_xCa_{1-x}Cr_2O_4$ Studied by Muon Spin Rotation and Neutron Diffraction
Elisabetta Nocerino, Ola Kenji Forslund, Hiroya Sakurai, Nami Matsubara, Anton Zubayer, Federico Mazza, Stephen P Cottrell, Akihiro Koda, Isao Watanabe, Akinori Hoshikawa, Takashi Saito, Jun Sugiyama, Yasmine Sassa, Martin Mansson
RSC Sustainable Energy & Fuels **8**, 1424 (2024) – *Cover Article*

[#185]
Photophysical Ion Dynamics in Hybrid Perovskite MAPbX3 (X=Br, Cl) Single Crystals
Konstantinos Papadopoulos, Ola Kenji Forslund, Stephen Cottrell, Koji Yokoyama,Pabitra K. Nayak, Francoise M. Amombo Noa, Lars Öhrström, Elisabetta Nocerino,Lars Börjesson, Jun Sugiyama, Martin Månsson, and Yasmine Sassa
Adv. Physics Res. **3**, 2300120 (2024) – *Cover Article*

[#184]
Confinement of LiAlH4 in a Mesoporous Carbon Black for Improved Near-Ambient Release of H2
Pavle Ramah, Rasmus Palm, Kenneth Tuul, Jaan Aruväli, Martin Månsson, Enn Lust
Reactions **4**(4), 635 (2023)

[#183]
Ion dynamics in P2-NaxCoO2 detected with operando μ+SR
Kazuki Ohishi, Daisuke Igarashi, Ryoichi Tatara, Izumi Umegaki, Jumpei G. Nakamura, Akihiro Koda, Martin Månsson, Shinichi Komaba, and Jun Sugiyama
ACS Applied Energy Materiaks 6, 15, 8111 (2023)

[#182]
Q-dependent electron-phonon coupling induced phonon softening and non-conventional critical behavior in the CDW superconductor $LaPt_2Si_2$
Elisabetta Nocerino, Uwe Stuhr, Irene San Lorenzo, Federico Mazza, Daniel Mazzone, Johan Hellsvik, Shunsuke Hasegawa, Shinichiro Asai, Takatsugu Masuda, Shin-ichi Itoh, Arianna Minelli, Zakir Hossain, Arumugam Thamizhavel, Kim Lefmann, Yasmine Sassa, Martin Månsson
Journal of Science: Advanced Materials and Devices 8, 4, 100621 (2023)

[#181]
Revised Magnetic Structure and Tricritical Behavior of the CMR Compound NaCr2O4 Investigated with High Resolution Neutron Diffraction and μ+SR
Elisabetta Nocerino, Ola K. Forslund, Hiroya Sakurai, Akinori Hoshikawa, Nami Matsubara, Daniel Andreica, Anton Zubayer, Federico Mazza, Takashi Saito, Jun Sugiyama, Izumi Umegaki, Yasmine Sassa, Martin Månsson
Journal of Physics: Materials **6**, 035009 (2023)

[#180]
Multiple unconventional charge density wave transitions in LaPt2Si2 superconductor clarified with high-energy X-ray diffraction
Elisabetta Nocerino, Irene San Lorenzo, Konstantinos Papadopulos, Marisa Medarde, Jike Lyu, Yannick Maximilian Klein, Arianna Minelli, Zakir Hossain, Arumugam Thamizhavel, Kim Lefmann, Oleh Ivashko, Martin von Zimmermann, Yasmine Sassa, Martin Månsson
Nature Communications Materials **4**, 77 (2023)

[#179]
Competition between magnetic interactions and structural instabilities leading to itinerant frustration in the triangular lattice antiferromagnet LiCrSe2
E. Nocerino, S. Kobayashi, C. Witteveen, O. K. Forslund, N. Matsubara, C. Tang, T. Matsukawa, A. Hoshikawa, A. Koda, K. Yoshimura, I. Umegaki, Y. Sassa, F. O. von Rohr, V. Pomjakushin, J. H. Brewer, J. Sugiyama, M. Månsson
Nature Communications Materials **4**, 81 (2023)

[#178]
Antiferromagnetic order in Kondo lattice CePd5Al2 possibly driven by nesting
Chen Zhang, Ya-Hua Yuan, Jiao-Jiao Song, Ján Rusz, Yin-Zou Zhao, Qi-Yi Wu, Yu-Xia Duan, Yasmine Sassa, Oscar Tjernberg, Martin Månsson, Magnus H. Berntsen, P. H. Tobash, Eric D. Bauer, Peter M. Oppeneer, Tomasz Durakiewicz, and Jian-Qiao Meng
Physical Review B **108**, 035108 (2023)

[#177]
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