



Mariam Maisuradze

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<https://site.unibo.it/spectro-electrochem-energy-research-group/en> | **Address:** Via Piero Gobetti #85 , 40129, Bologna, Italy (Work)

WORK EXPERIENCE

 **UNIVERSITY OF BOLOGNA** – BOLOGNA, ITALY

RESEARCH FELLOW – 01/11/2024 – CURRENT

Analysis and characterization of the electrodes for redox flow batteries and catalysts through electrochemical and spectroscopic techniques.

 **ELETTRA SYNCHROTRON** – TRIESTE, ITALY

PRINCIPAL INVESTIGATOR – 10/02/2025 – 16/02/2025

A principal investigator (PI) for Elettra proposal #20245369: "micro-XANES and 2D-XRF for post-mortem characterization of potassium-ion batteries", conducted on X-ray Fluorescence (XRF) beamline at Elettra Synchrotron Trieste.

 **ELETTRA SYNCHROTRON** – TRIESTE, ITALY

ASSISTANT RESEARCH INVESTIGATOR – 2021 – 2025

- Elettra #20245183: XAFS beamline - "Nd L3-edge local structure investigation on high entropy oxide nanofibers as novel magnetic material"
- Elettra #20245195: XAFS beamline - "Local structural dynamic of lithium manganese iron phosphate electrode in sodium-ion batteries as detected by operando and ex-situ XAS".
- CERIC #20242189, MCX beamline & XAFS beamline - "Potassium ion batteries: structure and morphology checked by in situ XAS, in situ XRD and TEM".
- Elettra #20245003: XAFS beamline - "Electrolyte optimisation of manganese hexacyanoferrate rechargeable aqueous zinc-ion batteries".
- Elettra #20230012: XAFS beamline - "Development of a Conversion Electron Yield (CEY) Detector for the XAFS 11.1 beamline: From Fundamentals to Applications".
- Elettra #20230452: MCX beamline - "Powder X-ray diffraction study of the atmospheric de-sodiation of the O3-type NaMn0.5Fe0.4Ni0.1O2 and the passivating effect of Cu substitution".
- CERIC #20222183: MCX beamline - "Magnesium ion batteries: structure and morphology checked by in situ XAS, in situ XRD and TEM".
- Elettra #20220188: XRF beamline - "micro XANES and 2D scanning XRF of nickel-doped Prussian Blue based cathode materials in aqueous zinc-ion batteries".
- Elettra #20220179: XAFS beamline - "XAS investigation of high entropy oxide electrospun nanofibers as anode materials for lithium ion batteries".
- CERIC #20212162: XAFS beamline & MCX beamline - "Aqueous zinc-ion batteries: structure and morphology checked by in situ XAS, in situ XRD and TEM".

 **UNIVERSITY OF BOLOGNA** – BOLOGNA, ITALY

RESEARCH FELLOW – 01/11/2023 – 30/10/2024

Prussian Blue Analogues (PBAs) for Post-lithium batteries.

 **UNIVERSITY OF BOLOGNA** – BOLOGNA, ITALY

ASSISTANT OF THE LECTURER – 2023 – 2025

Contribution in PhD course "X-Ray Monitoring in Materials Science and in the Environment" through the case study presentation and the laboratory demonstration of X-ray Fluorescence technique.

 **UNIVERSITY OF LEIPZIG, WILHELM-OSTWALD INSTITUTE** – LEIPZIG, GERMANY

INTERN – 01/11/2022 – 31/01/2023

XPS Study of the Ni-doped Manganese Hexacyanoferrate Cathode Material in the Framework of the PhD Thesis.

 **INDUSTRIAL CHEMISTRY DEPARTMENT (CHIMICA INDUSTRIALE "TOSO MONTANARI"), UNIVERSITY OF BOLOGNA** – BOLOGNA, ITALY

Working on master thesis about "Synthesis and Characterization of Double Metal Hexacyanoferrates" by using laboratory and synchrotron based techniques: XAS (X-ray absorption Spectroscopy), PXRD (Powder X-ray Diffraction), TXM (Transmission X-ray Microscopy), CV (Cyclic Voltammetry), FTIR/ATR (Fourier Transform Infrared Spectroscopy/Attenuated Total Reflectance), TGA (Thermogravimetric Analysis) and MP-AES (Microwave Plasma Atomic Emission Spectroscopy).

 **CNRS; UCCS; UNIVERSITY OF LILLE** – LILLE, FRANCE

INTERN – 14/01/2019 – 01/03/2019

Characterization of catalysts with XPS (X-ray Photoelectron Spectroscopy), solid state NMR (Nuclear Magnetic Resonance spectroscopy) and FT-IR/ATR.

 **SMART/ATMOSIM LAB, TBILISI STATE UNIVERSITY** – TBILISI, GEORGIA

LABORATORY EMPLOYEE – 02/2018 – 08/2018

Air quality analysis in Tbilisi. Sample collection throughout the city. Detection of methane, carbon and nitrogen oxides in the air for both online analysis and collected samples.

 **TBILISI STATE UNIVERSITY** – TBILISI, GEORGIA

LABORATORY ASSISTANT – 04/2016 – 07/2018

Research of enantioseparation, mainly on HPLC (High Performance Liquid Chromatography), also UHPLC (Ultra High Performance Liquid Chromatography). Testing chiral columns, including newly developed uncommercialized ones. Later working on the bachelor thesis and publication on the topic from the same field.

● **EDUCATION AND TRAINING**

01/11/2020 – 20/03/2024 Bologna, Italy

PHD IN CHEMISTRY University of Bologna

Website <https://www.unibo.it> | **Level in EQF** EQF level 8

09/2018 – 07/2020

MASTER OF SCIENCE IN ADVANCED SPECTROSCOPY IN CHEMISTRY University of Bologna, University of Leipzig, University of Lille

Website <https://master-asc.eu/> | **Level in EQF** EQF level 7

09/2014 – 07/2018 Tbilisi, Georgia

BACHELOR OF SCIENCE IN CHEMISTRY Ivane Javakhishvili Tbilisi State University

Website <https://www.tsu.ge> | **Level in EQF** EQF level 6

● **JOB-RELATED SKILLS**

XAS; XRD; XRF (including 2D-XRF); XPS; TXM, SEM, HPLC; CV; GCPL; LSV, NMR (including solid NMR); FT-IR; MP-AES; UV-Vis.

● **PUBLICATIONS**

2025

High Entropy Layered Cathode with Single-Crystal Morphology for High-Performance Sodium-Ion Batteries

D. Callegari, G. Maranini, C. Triolo, M. Maisuradze, H. Beere, A. Nassiri, U. Anselmi-Tamburini, S. Santangelo, M. Giorgetti, M. Coduri, *ACS Appl. Energy Mater.*, Submitted.

2025

Synchrotron Radiation Investigation of Reaction Mechanism of Manganese Prussian Blue Analogue in Aqueous Zn-Mn Electrolyte

M. Li, M. Maisuradze, I. Carlomagno, J. R. Herrera, J. R. Plaisier, G. Agostini, M. Giorgetti, *JPhys Energy*, Submitted.

2025

Advancements in sustainable aqueous Zn-ion batteries via exploring new cathode & anode optimisation strategies

M. Maisuradze, M. Li, S. Liu, J. R. Plaisier, M. Giorgetti, *proceedings article in the book series: Lecture Notes in Mechanical Engineering, Springer*, Accepted.

2025

[**Zincophilic MOF Protective Layer for Stable Zinc Anodes in Zinc-Ion Batteries**](#)

S. Liu, M. Maisuradze, M. Li, Q. Li, N. Kazemi, M. Giorgetti, *Chem. Eur. J.*, 2025, 0, e02217, <https://doi.org/10.1002/chem.202502217>

2025

[**Nitrogen doping induces carbon micro-defect to improve potassium storage properties**](#)

C. Zhang, M. Huang, T. Li, M. Maisuradze, Q. Li, Q. Meng, B. Xiao, F. Wei, Y. Sui, W. Yang, J. Qi, M. Giorgetti, R. Shao, *Colloids Surf. A: Physicochem. Eng. Asp.*, 2025, 714, 136485, <https://doi.org/10.1016/j.colsurfa.2025.136485>

2025

[**Excess of Zn to Relieve the Structural Distortion of Manganese Hexacyanoferrate in Aqueous Zn-ion Battery**](#)

M. Li, M. Maisuradze, Z. Paputungan, R. Denecke, J. R. Plaisier, G. Aquilanti, G. Agostini, M. Giorgetti, *J. Mater. Chem. A*, 2025, <https://doi.org/10.1039/D4TA08889A>

Article was chosen for the cover page of *The Journal of Materials Chemistry A*, artwork by Z. Paputungan.

Article was highlighted in *CERIC 2025 Scientific Highlights*, under the name: "Boosting Structural Stability in Zn-Ion Batteries thanks to Zn-Substituted Cathodes".

2024

[**Structural Evolution of Manganese Prussian Blue Analogue in Aqueous ZnSO₄ Electrolyte**](#)

M. Li, M. Maisuradze, A. Mullaliu, I. Carlomagno, G. Aquilanti, J. R. Plaisier, M. Giorgetti, *Small*, 2024, vol. 20, n. 51 pp. 2404584, <https://doi.org/10.1002/smll.202404584>

Article was chosen for the cover page of *Small*, artwork by Z. Paputungan.

Article was highlighted in *Elettra Highlights 2024-2025*.

2024

[**Role of the Microstructure in the Li-Storage Performance of Spinel-Structured High-Entropy \(Mn,Fe,Co,Ni,Zn\) Oxide Nanofibers**](#)

C. Triolo, M. Maisuradze, Y. Liu, M. Li, G. Pagot, A. Ponti, V. Di Noto, G. Aquilanti, N. Pinna, M. Giorgetti, S. Santangelo, *J. Electrochem. Soc.*, 2024, vol. 171, p. 060509, <https://doi.org/10.1149/1945-7111/ad51aa>

2024

[**A Partially Ni-substituted MnHCF Cathode Material for Aqueous Zn-ion Batteries: The Electrochemical Performance and the Structural Modification**](#)

M. Maisuradze, M. Li, M. Gaboardi, G. Aquilanti, J. R. Plaisier, M. Giorgetti, *Advanced Materials Science and Technology*, 2024, vol. 6, n. 1, 0629615, <https://doi.org/10.37155/2717-526X-0601-2>

Article was highlighted in *CERIC 2024 Scientific Highlights*, under the name "X-ray techniques describe modifications in the cathode material of aqueous Zn-ion batteries".

2024

[**Aging Mechanism of Mn-based Prussian Blue Cathode Material by Synchrotron 2D X-ray Fluorescence**](#)

M. Maisuradze, M. Li, . Carlomagno, M. Gaboardi, G. Aquilanti, J. R. Plaisier, M. Giorgetti, *Batteries*, 2024, vol. 10, p. 123, <https://doi.org/10.3390/batteries10040123>

2023

[**2D X-ray fluorescence imaging as a probe for charge state distribution of manganese in aged MnHCF-based electrodes**](#)

M. Maisuradze, I. Carlomagno, A. Mullaliu, M. Li, G. Aquilanti, M. Giorgetti, *J. Phys. Chem. C*, 2023, vol. 127, n. 44, p. 21498, <https://doi.org/10.1021/acs.jpcc.3c06061>

Article was chosen for the cover page of *The Journal of Physical Chemistry C*, artwork by Z. Paputungan.

Article was highlighted in *Elettra Highlights 2023-2024*, under the name "Broadening the limits of 2D x-ray fluorescence via charge state detection: a battery material study"

2023

[A Structural Perspective on Prussian Blue Analogues for Aqueous Zinc-Ion Batteries](#)

M. Li, M. Maisuradze, R. Sciacca, I. Hasa, M. Giorgetti, *Batter. Supercaps*, 2023, vol. 6, n. 11, p. e202300340, <https://doi.org/10.1002/batt.202300340>

2023

[Mapping Heterogeneity of Pristine and Aged Li- and Na-Mnhcf Cathode by Synchrotron-Based Energy-Dependent Full Field Transmission X-ray Microscopy](#)

M. Maisuradze, M. Li, A. Mullaliu, A. Sorrentino, D. Tonti, S. Passerini, M. Giorgetti, *Small methods*, Aug. 2023, vol. 7, n. 11, p. 2300718, <https://doi.org/10.1002/smt.202300718>

Article was chosen for the cover page of *Small methods*, artwork by Z. Paputungan.

2023

[Charge Storage Mechanism in Electrospun Spinel-Structured High-Entropy \(Mn_{0.2}Fe_{0.2}Co_{0.2}Ni_{0.2}Zn_{0.2}\)₃O₄ Oxide Nanofibers as Anode Material for Li-Ion Batteries](#)

C. Triolo, M. Maisuradze, M. Li, Y. Liu, A. Ponti, G. Pagot, V. Di Noto, G. Aquilanti, N. Pinna, M. Giorgetti, S. Santangelo, *Small*, 2023, vol. 19, n. 46, p. 2304585, <https://doi.org/10.1002/sml.202304585>

2023

[Influence of Vacancies in Manganese Hexacyanoferrate Cathode for Organic Na-ion Batteries: A Structural Perspective](#)

M. Li, M. Gaboardi, A. Mullaliu, M. Maisuradze, X. Xue, G. Aquilanti, J. R. Plaisier, S. Passerini, M. Giorgetti, *ChemSusChem*, Feb. 2023, vol. 16, n. 12, e202300201, <https://doi.org/10.1002/cssc.202300201>

Article was highlighted in *Elettra Highlights 2022-2023*, under the name "Vacancy influence on manganese hexacyanoferrate Na-ion batteries: structural perspective";

Article was highlighted in *CERIC Report 2023*, under the name „Na-ion batteries: understanding molecular structure to explain performance“

2023

[Characterization of partially Ni substituted manganese hexacyanoferrate cathode material](#)

M. Maisuradze, M. Li, G. Aquilanti, J. Plaisier, and M. Giorgetti, *Mater Lett*, vol. 330, p. 133259, Jan. 2023, <https://doi.org/10.1016/j.matlet.2022.133259>

2022

[Easy recovery of Li-ion cathode powders by the use of water-processable binders](#)

A. Brilloni, F. Poli, G. E. Spina, C. Samori, E. Guidi, C. Gualandi, M. Maisuradze, M. Giorgetti, F. Soavi, *Electrochim. Acta*, 2022, vol. 418, p. 140376, <https://doi.org/10.1016/j.electacta.2022.140376>

2022

[Symmetric Aqueous Batteries of Titanium Hexacyanoferrate in Na⁺, K⁺, and Mg²⁺ Media](#)

M. Li, A. Bina, M.; Maisuradze, M. Giorgetti, *Batteries*, 2022, vol. 8, n. 1, p. 1, <https://doi.org/10.3390/batteries8010001>

2021

[Electrochemical Performance of Manganese Hexacyanoferrate Cathode Material in Aqueous Zn-Ion Battery](#)

M. Li, R. Sciacca, M. Maisuradze, G. Aquilanti, J. R. Plaisier, M. Berrettoni, M. Giorgetti, *Electrochim. Acta*, Dec. 2021, vol. 400, p. 139414, <https://doi.org/10.1016/j.electacta.2021.139414>

2019

[Chromatographic and thermodynamic comparison of amylose tris\(3-chloro-5-methylphenylcarbamate\) coated or covalently immobilized on silica in high-performance liquid chromatographic separation of the enantiomers of select chiral weak acids](#)

M. Maisuradze, G. Sheklashvili, A. Chokheli, I. Matarashvili, T. Gogatishvili, T. Farkas, B. Chankvetadze, *J Chromatogr A*, 2019, vol. 1602, pp. 228-236, <https://doi.org/10.1016/j.chroma.2019.05.026>

CONFERENCES AND SEMINARS

10/09/2025 – 12/09/2025 University of Bologna, Via Irnerio, 46, 40126 Bologna, Italy

21st Global Conference on Sustainable Manufacturing (GCSM)

- Part of Local Organising Team;
- M. Maisuradze, M. Li, S. Liu, J. R. Plaisier, M. Giorgetti, "Advancements in sustainable aqueous Zn-ion batteries via exploring new cathode & anode optimisation strategies", *oral presentation*.

Link <https://gcsm.eu/>

25/08/2025 – 29/08/2025 Poznan Congress Center, Głogowska 10, 60-734 Poznań, Poland

European Crystallographic Meeting (ECM35)

- M. Li, M. Maisuradze, M. Gaboardi, J. R. Plaisier, M. Giorgetti, "Advancements in sustainable aqueous Zn-ion batteries via exploring new cathode & anode optimisation strategies", *invited speaker*.

Link <https://ecm35.ecanews.org/>

01/07/2025 – 03/07/2025 University of Camerino, Via Madonna delle Carceri, 62032 Camerino, Italy

Networking and Knowledge Sharing Among Lithium Battery Scientists

- M. Maisuradze, "Spectroscopy, Electrochemistry and Energy Research Group", *oral presentation*.

05/05/2025 – 09/05/2025 Environment Park, Via Andrea Costaguta, 21/A, Torino, Italy

The Conference of Associazione Italiana di Scienza & Tecnologia (AIV) XXVII

- M. Maisuradze, M. Li, I. Carlomagno, G. Aquilanti, M. Giorgetti, "Exploring the aging mechanism of PBA cathode materials with post-mortem 2D x-ray fluorescence imaging", *oral presentation*.
- S. Liu, M. Maisuradze, M. Li, Q. Li, M. Giorgetti, "Metal–Organic Frameworks Layer Enhances the Performance of Zinc Anodes", *poster*.

Link <https://www.aiv.it/it/aiv-xxvii-conference>

28/04/2025 – 29/04/2025 Katholieke Universiteit Leuven, Oude Markt 13, 3000. Leuven

Symposium on Future Materials

- M. Maisuradze, M. Li, I. Carlomagno, G. Aquilanti, M. Giorgetti, "Unraveling Aging Mechanisms in Novel Battery Materials through Advanced X-ray Fluorescence Imaging", *oral presentation*.

Link <https://www.una-europa.eu/calendar/symposium-on-future-materials-at-ku-leuven>

01/09/2024 – 06/09/2024 Padova Congress, Via Niccolò Tommaseo #59, 35131, Padova, Italy

International Symposium on Beyond Li-Ion Batteries 2024 - BeLi24

- M. Maisuradze, M. Li, I. Carlomagno, G. Aquilanti, M. Giorgetti, "Post-mortem analysis of MnHCF-based cathode materials via synchrotron-based 2D X-ray fluorescence technique", *oral presentation*.

Link <https://projects.dii.unipd.it/beli24/>

30/05/2024 Polo Didattico del Navile, University of Bologna, Via della Beverara #123/1, Bologna, Italy

Research, Technological Transfer and Recruiting at Navile District

- M. Maisuradze, M. Giorgetti, "Investigating the Aging of the Battery Materials with X-ray Techniques", *poster*.

Link <https://eventi.unibo.it/distretto-chimico-navile>

07/02/2024 – 09/02/2024 Sapienza Università di Roma, Piazzale Aldo Moro, #5, 00185, Rome, Italy

Third Italian Workshop on Energy Storage (IWES2024)

- M. Maisuradze, M. Li, I. Carlomagno, A. Mullaliu, A. Sorrentino, G. Aquilanti, S. Passerini, D. Tonti, M. Giorgetti, "Inhomogenisation of the charge state distribution in the manganese hexacyanoferrate cathodes in Li/Na-ions batteries: A TXM and 2D-XRF study", *poster*;
- M. Li, M. Gaboardi, A. Mullaliu, M. Maisuradze, X. Xue, G. Aquilanti, J. R. Plaisier, S. Passerini, M. Giorgetti "Vacancy influence on manganese hexacyanoferrate Na-ion batteries: structural perspective", *oral presentation*.

Link <https://www.giselnetwork.it/iwes-2024>

30/08/2023 – 01/09/2023 Sapienza Università di Roma, Piazzale Aldo Moro, #5, 00185, Rome, Italy

SILS Conference 2023

- M. Maisuradze, M. Li, A. Mullaliu, A. Sorrentino, D. Tonti, S. Passerini, M. Giorgetti, "Investigation of Charge State Heterogeneity Inside MnHCF Cathode Material by Synchrotron-based Transmission Soft X-ray Microscopy", *oral presentation*.

Link <https://www.ba.ic.cnr.it/sils2023/>

25/05/2023 Polo Didattico del Navile, University of Bologna, Via della Beverara #123/1, Bologna, Italy

Chemical District of Navile Presents Research, Technological Transfer and Recruiting

- M. Maisuradze, M. Giorgetti "S2E: Elettrochimica, Spettroscopia ed Energia", *poster*.

13/02/2023 – 17/02/2023 University of Bologna, Via della Beverara, 123/1, 40131, Bologna, BO, Italy

ASC Winter School 2023

- Part of "Organizing team";
- M. Maisuradze, "Alumnus Presentation", *oral presentation*.

Link <https://site.unibo.it/asc-winter-school2023/it>

09/10/2022 – 13/10/2022 Online

242nd Meeting of the Electrochemical Society (ECS)

- M. Maisuradze, M. Li, A. Mullaliu, A. Sorrentino, D. Tonti, S. Passerini, M. Giorgetti, "Post Mortem Microscopical and Selective Analysis of Manganese Hexacyanoferrate Cathode Material by Transmission Soft X-Ray Microscopy", *digital presentation*;
- M. Giorgetti, M. Li, M. Maisuradze, R. Sciacca, "Dynamics in Prussian Blue Analogs-Based Batteries Revealed By X-Ray Techniques", *keynote presentation*;
- M. Li, R. Sciacca, M. Maisuradze, G. Aquilanti, J. R. Plaisier, M. Berrettoni, M. Giorgetti "Electrochemistry and Structural Study of Manganese Hexacyanoferrate Cathode Material in Aqueous Zn-Ion Battery", *digital presentation*.

Link <https://www.electrochem.org/242>

12/09/2022 – 15/09/2022 University of Trieste, via L. Giorgieri 1, 34127 Trieste, TS, Italy

The 4th Joint AIC-SILS Conference

- M. Maisuradze, M. Li, M. Gaboardi, J. R. Plaisier, M. Giorgetti, "Operando and ex-situ PXRD Study of Ni-doped Manganese Hexacyanoferrate Cathode Material in Aqueous Zn-ion Battery System", *oral presentation*;
- M. Li, M. Gaboardi, A. Mullaliu, M. Maisuradze, G. Aquilanti, J. R. Plaisier, S. Passerini, M. Giorgetti, "Crystal structure study of manganese hexacyanoferrate cathode material in organic Na-ion battery by using XAS and XRD", *flash presentation*.

Link <https://eventi.mlib.ic.cnr.it/event/33/>

11/06/2022 – 15/06/2022 University of Bologna, DAMS Lab, Piazzetta P. P. Pasolini, 5/b, 40122, Bologna, BO, Italy

The 7th edition of International Symposium on Enhanced Electrochemical Capacitors ISEECap 2022

- Part of the "Assistant stuff";
- M. Maisuradze, M. Li, M. Gaboardi, J. R. Plaisier, M. Giorgetti, "Operando PXRD Study of Ni-doped Manganese Hexacyanoferrate Cathode Material in Aqueous Zn-ion Battery System", *young scientist presentation*;
- M. Li, M. Maisuradze, M. Gaboardi, G. Aquilanti, J. R. Plaisier, M. Giorgetti "Operando synchrotron XAS/XRD Investigation of Zn Insertion into Manganese Hexacyanoferrate Cathode Material," *poster*;

Link <https://eventi.unibo.it/iseecap-2022>

28/06/2022 – 29/06/2022 University of Modena and Reggio Emilia, Via Campi, 103 – 41125 Modena, MO, Italy

Hands-on Software

Workshop of "Commissione Strumentazione e Calcolo" by Associazione Italiana di Cristallografia (AIC)

Link <https://handsonsoftware.wordpress.com/>

17/12/2021 University of Ferrara, via Luigi Borsari #46, 4412, Ferrara, Italy

XX Giornata della Chimica dell'Emilia Romagna 2021 (GdC-ER 2021)

- M. Maisuradze, M. Li, A. Mullaliu, A. Sorrentino, D. Tonti, I. Carlomagno, G. Aquilanti, J. R. Plaisier, S. Passerini, M. Giorgetti, "Using TXM and 2D-XRF for the Identification of inhomogeneous State of Charge in Manganese Hexacyanoferrate Cathode Material," *poster*;
- M. Li, M. Maisuradze, A. Bina, A. Mullaliu, S. Passerini, M. Giorgetti, "Electrochemical Study of Titanium Hexacyanoferrate in Organic and Aqueous Batteries," *poster*.

Link <http://scf.unife.it/it/news/xx-giornata-della-chimica-dell2019emilia-romagna-gdc-er-2021>

Link <https://www.bnc.hu/cets/>

04/10/2021 – 08/10/2021 Online

14th Central European Training School (CETS 2021) on Neutron Techniques - Theoretical Module

- M. Maisuradze, M. Li, G. Aquilanti, J. K. Plaisier, M. Giorgetti, "Characterization of Pure and Nickel Doped Manganese Hexacyanoferrate Cathode Materials", *flash presentation*.

Link <https://www.bnc.hu/cets/>

14/09/2021 – 23/09/2021 Online

XXVII Congresso Nazionale della Società Chimica Italiana (SCI2021)

- M. Maisuradze, M. Li, A. Mullaliu, A. Sorrentino, D. Tonti, I. Carlomagno, G. Aquilanti, J. R. Plaisier, S. Passerini, M. Giorgetti, "Using TXM and 2D XRF for the identification of inhomogeneous state of charge in Manganese Hexacyanoferrate Cathode Material", *poster*;
- M. Li, R. Sciacca, M. Maisuradze, G. Aquilanti, J. Rikert Plaisier, M. Berrettoni, M. Giorgetti, "XAS study of Manganese Hexacyanoferrate cathode material in aqueous Zn ion batteries at three K metal edges", *oral presentation*.

Link <https://www.sci2020.org/>

21/06/2021 – 23/06/2021 Mixed mode: online/University of Bologna, Via Zamboni #33, 40126, Bologna, Italy

The annual meeting of the Italian Synchrotron Radiation Society (SILS)

- Part of local organizing team (LOC);
- M. Maisuradze, M. Li, A. Mullaliu, A. Sorrentino, D. Tonti, I. Carlomagno, G. Aquilanti, J. R. Plaisier, S. Passerini, M. Giorgetti, "Identifying inhomogeneous state of charge of Manganese Hexacyanoferrate Cathode Material by Transmission Soft X-Ray Microscopy and 2D X-Ray Fluorescence Spectroscopy", *poster-presentation*.

Link https://www.lucedisincrotrone.it/wp-content/uploads/2021/06/SILS2021_Program.pdf

02/03/2020 – 06/03/2020 University of Helsinki, P.O. Box #64, FI-00014, Helsinki Finland

Winter School "Spectroscopy in Medical Application"

- M. Maisuradze, A. Khan, M. Li, M. Giorgetti, "X-Ray Fluorescence (XRF): Sample Size, Thickness and Sensitivity of Powder Samples", *poster*;
- A. Khan, M. Maisuradze, M. Li, M. Giorgetti, "Synthesis and Characterization of Defective Mn Hexacyanoferrate and Other Prussian Blue Material", *poster*.

Link <https://wiki.helsinki.fi/display/AW2/ASC+Winter+School+2020>

11/03/2019 – 15/03/2019 University of Leipzig, Johannisallee #29, 04103, Leipzig Germany

Winter School "Spectroscopy in Chemistry – New Techniques and New Applications"

20/08/2018 – 25/08/2018 Tbilisi State University, Ilia Tchavtchavadze Avenue #1, 0179, Tbilisi, Georgia

The 8th Georgian-German School and Workshop in Basic Science (GGSWBS), topic: "Science at multidisciplinary SMART | Labs in Georgia"

- M. Maisuradze, A. Chokheli, N. Kobakhidze, N. Khundadze, S. Pantsulaia, T. Khatiashvili, K. Kharashvili, G. Jibuti, B. Chankvetadze, "Contamination Gradient For Air Pollutants In Time", *oral presentation*.

Link <http://collaborations.fz-juelich.de/ikp/cgswbp/cgswbp18/>

09/07/2018 – 13/07/2018 Tbilisi State University, Ilia Tchavtchavadze Avenue #3, 0179, Tbilisi, Georgia

The Sixth Student Conference in Exact and Natural Sciences

- M. Maisuradze, G. Sheklashvili, A. Chokheli, T. Gogatishvili, R. Kakava, B. Chankvetadze, "Determination of Thermodynamic Quantities of Enantioseparation of Selected Chiral Weak Acids on Chiralpak IG Column and Its Coated Analogue", *oral presentation*.

Link <http://conference.sens-2018.tsu.ge/page/program/28>

29/12/2017 Tbilisi State University, Ilia Tchavtchavadze Avenue #1, 0179, Tbilisi, Georgia

The 8-th Annual Conference of the Chair of Physical and Analytical Chemistry of Tbilisi State University

- M. Maisuradze, G. Sheklashvili, A. Chokheli, S. Pantsulaia, N. Khundadze, R. Kakava, B. Chankvetadze, "Calculation of Thermodynamic Parameters of Enantioseparation Using High-Performance Liquid Chromatography", *oral presentation*.

Link <https://tsu.ge/ka/faculty/320/ზუსტ და საბუნებისმეტყველო მეცნიერებათა ფაკულტეტი/page/ფიზიკური-და-ანალიზური-ქიმიის-მე-8-ყოველწლიური-კონფერენცია>

25/11/2017 Tbilisi State University, Ilia Tchavtchavadze Avenue #3, 0179, Tbilisi, Georgia

77th Student's Scientific Conference in Chemistry Department of Tbilisi State University

- M. Maisuradze, G. Sheklashvili, A. Chokheli, R. Kakava, B. Chankvetadze, "Calculation of Thermodynamic Parameters of Enantioseparation Using High-Performance Liquid Chromatography", *oral presentation*.

Link https://www.tsu.ge/data/file_db/PR/programa_28760.pdf

01/11/2017 Georgian National Academy of Science, Rustaveli Ave. #52, 0108, Tbilisi, Georgia

Scientific Conference of Young Chemists

- M. Maisuradze, G. Sheklashvili, A. Chokheli, R. Kakava, B. Chankvetadze, "Calculation of Thermodynamic Parameters of Enantioseparation Using High-Performance Liquid Chromatography", *oral presentation*.

Link https://old.tsu.ge/data/file_db/faculty_zust_sabunebismetk/moxsenebebi.pdf

11/09/2017 – 15/09/2017 Forschungszentrum Jülich; Wilhelm-Johnen-Straße, 52428, Jülich, Germany

QUALI-START-UP Science Lectures

Link <https://www.fz-juelich.de/de/aktuelles/news/meldungen/archiv/2017/17-09-14-herbstschule-georgien?expand=translations,fzsettings,nearest-institut>

31/05/2017 Tbilisi State University, Ilia Tchavtchavadze Avenue #3, 0179, Tbilisi, Georgia

5th Georgian Workshop in Chemistry Department of Tbilisi State University

- M. Maisuradze, "Positron Emission Tomography", *oral presentation*.

28/12/2016 – 29/12/2016 Tbilisi State University, Ilia Tchavtchavadze Avenue #1, 0179, Tbilisi, Georgia

The 6-th Annual Symposium of the Chair of Physical and Analytical Chemistry at Iv. Javakhishvili Tbilisi State University

- M. Maisuradze, G. Sheklashvili, N. Shashviashvili, M.-L. Konjaria, R. Kakava, B. Chankvetadze, "Enantioseparation of chiral sulfoxides using polysaccharide-based chiral columns and polar organic mobile phases", *oral presentation*.

Link https://www.tsu.ge/data/file_db/PR/Program_65579.pdf

14/12/2016 Tbilisi State University, Ilia Tchavtchavadze Avenue #3, 0179, Tbilisi, Georgia

4th Georgian Workshop in Chemistry Department of Tbilisi State University

- M. Maisuradze, "Liquid Crystals", *oral presentation*.

25/05/2016 Tbilisi State University, Ilia Tchavtchavadze Avenue #3, 0179, Tbilisi, Georgia

3rd Georgian Workshop in Chemistry Department of Tbilisi State University

- M. Maisuradze, "Organic Additives in Perfume", *oral presentation*.

12/09/2016 – 16/09/2016 Tbilisi State University, Ilia Tchavtchavadze Avenue #1, 0179, Tbilisi, Georgia

Seasonal School: Chemical and Mathematical Aspects of Environmental (Atmosphere) Monitoring

Link https://old.tsu.ge/data/file_db/faculty_zust_sabunebismetk/Final Program1.pdf