

GIORGIO TSEBERLIDIS (PhD)

Research Associate

- Department of Materials Science – University of Milano-Bicocca, Milano
- CNR-ISSMC Istituto di Scienza, Tecnologia e Sostenibilità per lo sviluppo dei Materiali Ceramici, Faenza

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♥ Faenza

WORK EXPERIENCE

Oct 2024- present	RESEARCH ASSOCIATE CNR-ISSMC Istituto di Scienza, Tecnologia e Sostenibilità per lo sviluppo dei Materiali Ceramici Research project CANVAS “<i>nuovi Concetti, mAteriali e tecnologie per l'iNtegrazione del fotoVoltaico negli edifici in uno scenario di generazione diffuSa</i>”	♥ Faenza
Oct 2023- present	RESEARCH ASSOCIATE (RTDa) MibSolar Labs – University of Milano Bicocca Research project CANVAS “<i>nuovi Concetti, mAteriali e tecnologie per l'iNtegrazione del fotoVoltaico negli edifici in uno scenario di generazione diffuSa</i>”	♥ Milano
Apr 2023- Sep 2023	POST-DOC RESEARCHER University of Milano Bicocca – Consorzio INSTM (Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali) Research project: Chalcogenide thin film deposition for energy production and storage. Supervisor: Professor Riccardo Ruffo	♥ Milano
Apr 2019 – Mar 2023	POST-DOC RESEARCHER MibSolar Labs – University of Milano Bicocca Research project: Development of inks for low-cost inorganic solar cells. Supervisor: Professor Simona Binetti Topic: development and optimization of precursor inks for the sol-gel deposition of kesterite thin films and their use in photovoltaic applications. The process has been optimized for the production of materials such as $\text{Cu}_2\text{XY}(\text{S,Se})_4$ with $\text{X} = \text{Zn, Mn}$ and $\text{Y} = \text{Sn, Ge}$ on both rigid and flexible substrates. Buffer layers alternative to CdS have been studied, produced and optimized through Atomic Layer Deposition.	♥ Milano
Jan 2019- Mar 2019	RESEARCH COLLABORATION (Laureato Frequentatore) MibSolar Labs – University of Milano Bicocca Research project: Development of inks for low-cost inorganic solar cells. Supervisor: Professor Simona Binetti	♥ Milano
Oct 2018 – Dec 2018	CSV CONSULTANT AT PQE (Pharma Quality Europe) Junior consultant in the assessment and validation of computerized laboratory instruments and systems for pharmaceutical use.	♥ Reggello (Firenze)
Nov 2014 – Feb 2018	RESEARCH ACTIVITY DURING THE PhD Lab. of Inorganic and Coordination Chemistry - University of Milan	♥ Milano

Supervisor: Professor Alessandro Caselli
Topic: synthesis of metal complexes with bio-inspired nitrogen-containing macrocyclic ligands and their use in catalysis.

- Apr 2014 – R&D CHEMIST
Oct 2014 Nerpharma DS (Nerviano Medical Sciences) – R&D TEAM
Six months of stage in the development of chemical processes for the production of anti-cancer drugs. ♥ Nerviano (Milano)
- Jan 2014 – RESEARCH COLLABORATION (Laureato Frequentatore)
Mar 2014 Lab. of Inorganic and Coordination Chemistry - University of Milan
Supervisor: Professor Emma Gallo
Synthesis of new glycoporphyrin metal complexes and their use in catalysis. ♥ Milano
- Dec 2012 – GRADUATE STUDENT INTERNSHIP
Dec 2013 Lab. of Inorganic and Coordination Chemistry - University of Milan
Supervisor: Professor Emma Gallo
1 year of master traineeship in the research group of Coordination Chemistry of Prof. Emma Gallo working on the synthesis of new glycoporphyrin ligands and their corresponding complexes. ♥ Milano

EDUCATION

- 2014-2018 PhD IN INDUSTRIAL CHEMISTRY (XXX cycle)
University of Milan – Department of Chemistry
Supervisor: Professor Alessandro Caselli
Thesis: "Synthesis of metal complexes with bio-inspired nitrogen-containing macrocyclic ligands and their use in catalysis". ♥ Milano
- 2011-2013 MASTER DEGREE
University of Milan – Course of Chemical Sciences
Supervisor: Professor Emma Gallo
Thesis: "Synthesis of glycoporphyrin ligands that can be used in photodynamic therapy and their employment in homogeneous catalysis". ♥ Milano
- 2007-2011 BACHELOR DEGREE
University of Milan – Course of Chemistry
Supervisor: Professor Luigi Falciola
Thesis: "Amperometric study of the degradation of hypochlorite in new gels for medical uses". ♥ Milano

VISITING ABROAD

- May 2022 – July 2022 VISITING POST-DOC
PVMD Group (PhotoVoltaic Materials and Devices) – TU Delft
Supervisor: Professor Olindo Isabella
Topic: experimental collaboration for the deposition of innovative Transparent Conductive Oxides and their use as back contacts in semitransparent chalcogenide solar cells. ♥ Delft (NL)
- Nov 2018 VISITING CSV CONSULTANT
One month as visiting CSV consultant for PQE (Pharma Quality Europe) in the assessment and validation of computerized laboratory instruments and systems for pharmaceutical use. ♥ Amityville New York (US)

Jan 2016 – VISITING PhD ♥ Oviedo (ES)
 July 2016 Department of Organic and Inorganic Chemistry - University of Oviedo
 Supervisor: Professor Rubén Vicente
 Six months of traineeship working on copper-catalyzed carbene insertion on X-H bonds.

RESEARCH PROJECT ACTIVITIES

Research project PON entitled “Bifacial Efficient Solar Cell Technology with 4-Terminal Architecture for Utility Scale” [BEST-4U], financed by the Italian Ministry MIUR (CUPB88D19000160005): participant. 2020-2023

Operating Agreement with ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) for Research on the Electric System, financed by the Italian Ministry of Economic Development: participant. 2020-2022

Operating Agreement with ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) for Research on the Electric System, financed by the Italian Ministry of Economic Development: participant. 2022-2024

Research project entitled “Deposizione di film sottili di calcogenuri per energy production and storage”, funded by INSTM (Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali). 2023

Research project entitled “nuovi Concetti, mAteriali e tecnologie per l'iNtegrazione del fotoVOLTaico negli edifici in uno scenario di generazione diffuSa” [CANVAS], funded by the Italian Ministry of the Environment and the Energy Security, through the Research Fund for the Italian Electrical System (type-A call, published on G.U.R.I. n. 192 on 18-08-2022): participant. 2023-2025

GRANTED PROJECTS

“Singlet exCitoN fission in crysTalline moLecuLAr thin films for enhanced silicon photovoltaics (SCINTILLA)”

PRIN: PROGETTI DI RICERCA DI RILEVANTE INTERESSE NAZIONALE – Bando 2022

Principal Investigator: Dr. Alessandro Minotto (University of Milano-Bicocca)

Personnel of the research unit: Dr. Alessandro Minotto, Prof. Adele Sassella, Dr. Giorgio Tseberlidis

TEACHING EXPERIENCE

A.Y. 2024-2025	TEACHER AND EXAMINER (Laboratory) - Physical Chemistry III For the Bachelor Degree in Chemical Sciences and Technologies Head Professor: Simona Olga Binetti	48h	University of Milano-Bicocca
A.Y. 2023-2024	TEACHER AND EXAMINER (Laboratory) - Physical Chemistry III For the Bachelor Degree in Chemical Sciences and Technologies Head Professor: Simona Olga Binetti	48h	University of Milano-Bicocca
A.Y. 2022-2023	ASSISTANT TEACHER (Laboratory) (Docente a Contratto) - Organometallic and Coordination Chemistry (Laboratory) For the Master Degree in Chemical Sciences Head Professor: Roberto Della Pergola	48h	University of Milano-Bicocca
A.Y. 2021-2022	ASSISTANT TEACHER (Laboratory) (Docente a Contratto) - Organometallic and Coordination Chemistry (Laboratory) For the Master Degree in Chemistry Head Professor: Roberto Della Pergola	24h	University of Milano-Bicocca

A.Y. 2021-2022	ASSISTANT TEACHER AND EXAMINER (Docente a Contratto) - General and Inorganic Chemistry For the Bachelor Degree in Physics Head Professor: Livia Giordano	12h	University of Milano-Bicocca
A.Y. 2021-2022	ASSISTANT TEACHER AND EXAMINER (Laboratory) (Docente a Contratto) - Physical Chemistry III For the Bachelor Degree in Chemical Sciences and Technologies Head Professor: Simona Olga Binetti	24h	University of Milano-Bicocca
A.Y. 2020-2021	ASSISTANT TEACHER AND EXAMINER (Docente a Contratto) - General and Inorganic Chemistry For the Bachelor Degree in Physics Head Professor: Massimiliano D'Arienzo	12h	University of Milano-Bicocca
A.Y. 2020-2021	ASSISTANT TEACHER AND EXAMINER (Laboratory) (Docente a Contratto) - Physical Chemistry III For the Bachelor Degree in Chemical Sciences and Technologies Head Professor: Simona Olga Binetti	48h	University of Milano-Bicocca
A.Y. 2019-2020	ASSISTANT TEACHER AND EXAMINER (Laboratory) (Docente a Contratto) - Physical Chemistry III For the Bachelor Degree in Chemical Sciences and Technologies Head Professor: Simona Olga Binetti	48h	University of Milano-Bicocca
A.Y. 2016-2017	ASSISTANT TEACHER AND EXAMINER (Laboratory) - General and Inorganic Chemistry For the Bachelor Degree in Medical Biotechnology Head Professor: Raffaella Soave	48h	University of Milano
A.Y. 2015-2016	ASSISTANT TEACHER AND EXAMINER (Laboratory) - General and Inorganic Chemistry For the Bachelor Degree in Medical Biotechnology Head Professor: Raffaella Soave	48h	University of Milano
A.Y. 2014-2015	ASSISTANT TEACHER AND EXAMINER (Laboratory) - General and Inorganic Chemistry For the Bachelor Degree in Medical Biotechnology Head Professor: Raffaella Soave	48h	University of Milano

PhD STUDENTS CO-SUPERVISOR

<u>Carla Gobbo</u>	PhD Student in Materials Science	<i>Ongoing</i>
<u>Fabio Butrichi</u>	PhD Student in Photovoltaics	<i>Ongoing</i>
<u>Mehr Un Nisa</u>	PhD Student in Photovoltaics	<i>Ongoing</i>
<u>Berenice Colombo</u>	PhD Student in Chemistry	<i>Ongoing</i>

STUDENTS SUPERVISOR or CO-SUPERVISOR

<u>Thomas Tavella</u>	Bachelor degree in Chemistry	2025
<u>Mattia Palma</u>	Bachelor degree in Chemistry	2025
<u>Michele Lento</u>	Master degree in Chemistry	2025
<u>Elena Polato</u>	Master degree in Chemistry	2025
<u>Daniele Fedrici</u>	Bachelor degree in Chemistry	2025
<u>Mattia Morstabilini</u>	Bachelor degree in Chemistry	2024
<u>Giorgio Valsecchi</u>	Bachelor degree in Chemistry	2024
<u>Berenice Colombo</u>	Master degree in Chemistry	2024
<u>Lorenzo La Zia</u>	Bachelor degree in Chemistry	2024
<u>Antonio Mascia</u>	Bachelor degree in Chemistry	2023
<u>Maria Andolfatto</u>	Bachelor degree in Physics	2023
<u>Andrea L'Altrella</u>	Bachelor degree in Chemistry	2022
<u>Carla Gobbo</u>	Master degree in Chemistry	2022
<u>Berenice Colombo</u>	Bachelor degree in Chemistry	2021
<u>Laura Bellini</u>	Bachelor degree in Chemistry	2020
<u>Alessandro Becchi</u>	Bachelor degree in Chemistry	2020
<u>Amin Hasan Husien</u>	Master degree in Materials Science	2020
<u>Giorgio Invernizzi</u>	Bachelor degree in Physics	2019
<u>Marco Colombo</u>	Master degree in Chemistry	2019

STUDENT'S LABORATORY TUTOR DURING THEIR INTERNSHIP

Debora Lucchini, Alessandro Ermolli, Daniele Valcarengi, Flavia Roncalli, Gianmarco Maspero, Federica Carlino, Ilaria Menghi, Nicola Panza, Fabio Sangalli (2015-2017 University of Milano)

IT Skills

Microsoft Office Suite; Origin Pro; ChemOffice Suite; MestReNova; Jasco Spectra Manager; Different web-call platforms (Webex, Teams, Meet, Zoom, Skype).

PUBLICATIONS

Peer-reviewed publications: 33 (as First author: 40%; as Last author: 10%; as Corresponding: 10%);

H-index: 17 (Google Scholar), 16 (Researchgate), 15 (Web Of Science, Scopus)

- 2025 G. Tseberlidis, V. Trifiletti, C. Gobbo, R. Po, B. E. G. Colombo, S. Binetti. Low-cost solution-processed flexible kesterite thin-film solar cells.
2025 IEEE 53rd Photovoltaic Specialists Conference (PVSC), 0148-015
- 2025 I. Anefnaf, G. Tseberlidis, S. Binetti, A. Veneri, E. Artegiani, A. Romeo. Tailoring CZTSSe Solar Cell Performance: Comparison of Flexible Molybdenum Foil and Sputtered Molybdenum Back Contacts.
2025 IEEE 53rd Photovoltaic Specialists Conference (PVSC), 0581-0585
- 2025 M. Mukhtar, E. Artegiani, S. Machin, A. Gasparotto, C. L. Boldrini, G. Tseberlidis, S. Binetti, M. Walls, A. Romeo. How the selenium is affecting the physical and electrical properties of ultra-thin CdSeTe/CdTe solar cells.
Solar Energy Materials & Solar Cells 293 (2025) 113830
- 2025 E. Cruz Muñoz, G. Tseberlidis, A. H. Husien, S. Binetti, F. Gosetti. Identification and ecotoxicity of the diclofenac transformation products formed by photolytic and photocatalytic processes.
Environ Sci Pollut Res 32, 12700–12712 (2025)
- 2025 D. Fatihi, G. Tseberlidis, V. Trifiletti, S. Binetti, E. Isotta, P. Scardi, A. Kamal, R. Adhiri, N. Ataollahi. Enhanced Efficiency of CZTS Solar Cells with Reduced Graphene Oxide and Titanium Dioxide Layers: A SCAPS Simulation Study.
ChemEngineering 2025, 9(2), 38
- 2025 C. Gobbo, Y. Gong, A. Jimenez-Arguijo, G. Tseberlidis, V. Trifiletti, C. Malerba, M. Valentini, P. Estarlich, E. Armelin, S. Lanzalaco, R. Po, S. Binetti, E. Saucedo. Strategies for back contact engineering in high-performance flexible kesterite solar cells.
J. Mater. Chem. A, 2025,13, 25498-25508
- 2025 E. Fabbretti, A. H. Husien, R. Patidar, K. Valadez-Villalobos, J. McGettrick, A. Amighini Alerhush, E. Parvazian, M. L. Davies, T. Watson, A. Minotto, G. Tseberlidis, A. Sassella, V. Trifiletti, S. Binetti. Enhancing the stability of inverted perovskite solar cells through Cu₂ZnSnS₄ nanoparticles hole transporting material
Sustainable Energy & Fuels, 2025, DOI: 10.1039/d4se01309c
- 2025 A. H. Husien, G. Tseberlidis, V. Trifiletti, E. Fabbretti, S. Mostoni, J. McGettrick, T. Watson, R. Po, S. Binetti. Optimized hot injection and HCl purification for high quality Cu₂ZnSnS₄ nanoparticles
Nanoscale Advances, 2025, 7, 250-260
- 2024 D. Gentili, G. Calabrese, E. Lunedei, F. Borgatti, S. A. Mirshokraee, V. Benekou, G. Tseberlidis, A. Mezzi, F. Liscio, A. Candini, G. Ruani, V. Palermo, F. Maccherozzi, M. Acciarri, E. Berretti, C. Santoro, A. Lavacchi, M. Cavallini. Tuning Electronic and Functional Properties in Defected MoS₂ Films by Surface Patterning of Sulphur Atomic Vacancies
Small Methods, 2024, 2401486, DOI: 10.1002/smtd.202401486
- 2024 G. Tseberlidis, V. Trifiletti, A. H. Husien, A. L'Altrella, S. Binetti, F. Gosetti. Cu₂ZnSnS₄ Nanoparticles as an Efficient Photocatalyst for the Degradation of Diclofenac in Water
Applied Sciences, 2024, 14, 9923
- 2024 G. Tseberlidis, C. Gobbo, V. Trifiletti, V. Di Palma, S. Binetti. Cd-free kesterite solar cells: State-of-the-art and perspectives
Sustainable Materials and Technologies, 2024, 41, e01003
- 2024 F. Butrichi, V. Trifiletti, G. Tseberlidis, B.E.G. Colombo, F. Taglietti, M. Rancan, L. Armelao, S. Binetti.

- Wet synthesis of Cu₂MnSnS₄ thin films for photovoltaics: Oxidation control and CdS impact on device performances
Solar Energy Materials & Solar Cells, 2024, 272, 112924
- 2023 M. Muhyuddin, G. Tseberlidis, M. Acciarri, O. Lori, M. D'Arienzo, M. Cavallini, P. Atanassov, L. Elbaz, A. Lavacchi, C. Santoro.
Molybdenum disulfide as hydrogen evolution catalyst: From atomistic to materials structure and electrocatalytic performance
Journal of Energy Chemistry, 2023, 87, 256–285
- 2023 C. Gobbo, V. Di Palma, V. Trifiletti, C. Malerba, M. Valentini, I. Matacena, S. Daliento, S. Binetti, M. Acciarri and G. Tseberlidis.
Effect of the ZnSnO/AZO Interface on the Charge Extraction in Cd-Free Kesterite Solar Cells
Energies 2023, 16, 4137
- 2023 S. A. Mirshokraee, M. Muhyuddin, R. Lorenzi, G. Tseberlidis, C. Lo Vecchio, V. Baglio, E. Berretti, A. Lavacchi and C. Santoro.
Litchi-derived platinum group metal-free electrocatalysts for oxygen reduction reaction and hydrogen evolution reaction in alkaline media.
SusMat, 2023, 3, 248–262
- 2023 V. Trifiletti, L. Frioni, G. Tseberlidis, E. Vitiello, M. Danilson, M. Grossberg, M. Acciarri, S. Binetti and S. Marchionna.
Manganese-substituted Kesterite thin-films for Earth-abundant Photovoltaic applications.
Solar Energy Materials and Solar Cells 2023, 254, 112247
- 2023 G. Tseberlidis, V. Di Palma, V. Trifiletti, L. Frioni, M. Valentini, C. Malerba, A. Mittiga, M. Acciarri and S. Binetti
Titania as buffer layer for Cd-free kesterite solar cells.
ACS Materials Lett. 2023, 5, 219–224
- 2022 G. Tseberlidis, V. Trifiletti, E. Vitiello, A. H. Husien, L. Frioni, M. Da Lisca, J. Alvarez, M. Acciarri and S. Binetti.
Bandgap tuning induced by germanium introduction in solution-processed kesterite thin films.
ACS Omega 2022, 7, 23445–23456
- 2022 N. Panza, G. Tseberlidis, A. Caselli and R. Vicente
Recent progress in the chemistry of 12-membered pyridine-containing tetraazamacrocycles: from synthesis to catalysis.
Dalton Trans., 2022, 51, 10635-10657
- 2021 V. Trifiletti, S. Luong, G. Tseberlidis, S. Riva, E.S.S. Galindez, W.P. Gillin, S. Binetti, O. Fenwick
Two-Step Synthesis of Bismuth-Based Hybrid Halide Perovskite Thin-Films.
Materials 2021, 14, 7827.
- 2021 V. Trifiletti, C. Asker, G. Tseberlidis, S. Riva, K. Zhao, W. Tang, S. Binetti and O. Fenwick
Quasi-Zero Dimensional Halide Perovskite Derivates: Synthesis, Status, and Opportunity.
Front. Electron. 2021, 2:758603
- 2021 G. Tseberlidis, A. H. Husien, S. Riva, L. Frioni, A. Le Donne, M. Acciarri, S. Binetti.
Semi-transparent Cu₂ZnSnS₄ solar cells by drop-casting of sol-gel ink.
Solar Energy, 2021, 224, 134–141
- 2021 M. Cavalleri, N. Panza, A. di Biase, G. Tseberlidis, S. Rizzato, G. Abbiati, and A. Caselli.
[Zinc(II)(Pyridine-Containing Ligand)] Complexes as Single-Component Efficient Catalyst for Chemical Fixation of CO₂ with Epoxides.
Eur. J. Org. Chem. 2021, 2021, 2764–2771

- 2020 N. Panza, A. di Biase, S. Rizzato, E. Gallo, G. Tseberlidis, and A. Caselli.
Catalytic selective oxidation of primary and secondary alcohols using nonheme [Iron(III)(Pyridine-Containing Ligand)] complexes.
Eur. J. Org. Chem. 2020, 6635–6644
- 2020 G. Tseberlidis, V. Trifiletti, G. Frioni, A. Le Donne, M. Acciarri and S. Binetti.
Kesterite solar-cells by drop-casting of inorganic sol-gel inks
Solar Energy 2020, 208, 532–538.
- 2020 V. Trifiletti, G. Tseberlidis, M. Colombo, A. Spinardi, S. Luong, M. Danilson, M. Grossberg, O. Fenwick and S. Binetti.
Growth and Characterization of Cu₂Zn_{1-x}Fe_xSnS₄ Thin Films for Photovoltaic Applications
Materials 2020, 13, 1471
- 2019 G. Tseberlidis, L. Demonti, V. Pirovano, M. Scavini, S. Cappelli, S. Rizzato, R. Vicente and A. Caselli.
Controlling Selectivity in Alkene Oxidation: Anion Driven Epoxidation or Dihydroxylation Catalysed by [Iron(III) (Pyridine-Containing Ligand)] Complexes.
ChemCatChem, 2019, 11, 4907–4915
- 2018 V. Pirovano, E. Brambilla and G. Tseberlidis.
[Copper(I)(Pyridine-containing ligand)] catalysed regio- and stereoselective synthesis of 2-vinylcyclopropa[b]indolines from 2-vinylindoles.
Org. Lett., 2018, 20, 2, 405–408
- 2017 G. Tseberlidis, D. Intrieri and A. Caselli.
Catalytic Applications of Pyridine-Containing Macrocyclic Complexes.
Eur. J. Inorg. Chem. 2017, 3589 – 3603
- 2017 M. Dall’Acqua, V. Pirovano, S. Peroni, G. Tseberlidis, D. Nava, E. Rossi and G. Abbiati.
Silver-Catalysed Domino Approach to 1,3-Dicarbo-Substituted Isochromenes.
Eur. J. Org. Chem., 2017, 1425-1433.
- 2017 G. Tseberlidis, A. Caselli and R. Vicente.
Carbene X-H bond insertions catalyzed by copper(I) macrocyclic pyridine-containing ligand (PcL) complexes.
J. Organomet. Chem., 2017, 835, 1-5.
- 2016 G. Tseberlidis, M. Dell’Acqua, D. Valcarengi, E. Gallo, E. Rossi, G. Abbiati and A. Caselli.
Silver comes into play: Henry reaction and domino cycloisomerisation sequence catalyzed by [Ag(I)(Pc-L)] complexes.
RSC Adv., 2016, 6, 97404 - 97419.
- 2015 G. Tseberlidis, P. Zardi, A. Caselli, D. Cancogni, M. Fusari, L. Lay and E. Gallo.
Glycoporphyrin Catalysts for Efficient C-H Bond Aminations by Organic Azides.
Organometallics, 2015, 34, 3774-3781.

COMMUNICATIONS AND CONGRESSES

<u>2025</u>	53rd IEEE Photovoltaic Specialists Conference Montreal (Canada) June 8-13, 2025 <i>"Low-cost solution-processed flexible kesterite thin-film solar cells"</i>	Poster & Conference Paper
<u>2025</u>	Joint 50th Congress of the Physical Chemistry Division of the Società Chimica Italiana and the 5th European Conference on Physical Chemistry (CDCF50&5thECPC) Pisa, (29 June – 3 July 2025) <i>"Inkjet printing of flexible kesterite solar cells"</i>	Oral Communication
<u>2025</u>	ITALIAN CRYSTAL GROWTH ICG2025 Lecce (19-22 January) <i>"Kesterite Nanoparticles: Synthesis, Purification and Applications"</i>	Oral Communication
<u>2024</u>	XXVIII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA Milano (26-30 August) <i>"The double life of kesterite nanoparticles: photovoltaics and photocatalysis"</i>	Oral Communication
<u>2024</u>	Seminario su invito (Prof. M. Meneghini), Dipartimento di Ingegneria dell'Informazione, Università degli Studi di Padova (07.05.2024) <i>"The double life of a kesterite absorber: photocatalysis vs photovoltaics"</i>	Invited Speaker
<u>2023</u>	Seminario su invito (Prof. M. Pavone), Dipartimento di Chimica, Università Federico II, Napoli (13.10.2023) <i>"The double life of a kesterite absorber: photovoltaics vs photocatalysis"</i>	Invited Speaker
<u>2023</u>	EMRS Spring Meeting 2023, Strasbourg (29 May – 02 June) <i>"Cd-free kesterite solar cells featuring TiO₂ as buffer layer"</i>	Invited Speaker and Chairman
<u>2023</u>	Congresso della Divisione per la Didattica della Società Chimica Italiana Salerno (15-17 June) <i>"Recycling of exhausted Lithium-Ion Batteries in Urban Mining"</i>	Oral Communication
<u>2023</u>	Conferenza 2023 della Rete Nazionale Fotovoltaica Milano (22-23 June) <i>"Cd-free kesterite solar cells featuring TiO₂ as buffer layer"</i>	Oral Communication
<u>2022</u>	WCPEC - 8th World Conference on Photovoltaic Energy Conversion Milano (26-30 September) <i>"Tunable bandgap in kesterite thin-films absorbers deposited by sol-gel techniques and their photovoltaic Applications"</i>	Poster
<u>2022</u>	SEE FUTURE PV - Latsis Symposium on Earth-Abundant Materials for Future Photovoltaics, Lausanne (22-24 June) <i>"Sol-gel deposition of Cu₂XYS₄ thin-films with tunable bandgap as absorbers for photovoltaic applications"</i>	Poster
<u>2021</u>	ITALIAN CRYSTAL GROWTH ICG 2021, Torino (16-17 December) <i>"Sol-gel deposition of Cu₂XYS₄ thin-films with tunable bandgap as absorbers for photovoltaic applications"</i>	Oral Communication
<u>2021</u>	XXVII CONGRESSO NAZIONALE DELLA SOCIETÀ CHIMICA ITALIANA, online during COVID19 Pandemic (14-23 September) <i>"Sol-gel deposition of Cu₂XYS₄ thin-films with tunable bandgap as absorbers for photovoltaic applications"</i>	Oral Communication
<u>2020</u>	ENERCHEM 2, GRUPPO INTERDIVISIONALE DI CHIMICA PER LE ENERGIE RINNOVABILI	Poster

Padova (12-14 February)

"Kesterite solar-cells by drop-casting of inorganic sol-gel inks"

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|-------------|---|-------------------------------------|
| <u>2019</u> | 10th European Kesterite+ workshop, Uppsala (20-22 November)
<i>"Kesterite solar-cells by drop-casting of inorganic sol-gel inks"</i> | Poster |
| <u>2019</u> | XLVII Congresso Nazionale della Divisione di Chimica Fisica, Roma (1-4 July)
<i>"Development of sol-gel inks for low-cost inorganic solar cells"</i> | Oral communication |
| <u>2017</u> | International School of Organometallic Chemistry (ISOC 2017),
Camerino (2-6 September)
<i>"Well defined iron(III) macrocyclic complexes as catalyst for alkene oxidation"</i> | Poster |
| <u>2016</u> | XLIV Congresso Nazionale di Chimica Inorganica, Padova (14-17 September)
<i>"Well defined silver(I) macrocyclic complexes as catalyst for the Henry reaction"</i> | Poster |
| <u>2016</u> | XLIV Congresso Nazionale di Chimica Inorganica, Padova (14-17 September)
<i>"Si-H bond insertion promoted by well-defined Cu(I) complexes of macrocyclic Pyridine-containing Ligands (Pc-L)"</i> | Oral Communication |
| <u>2016</u> | SISOC, 2016, 11th Spanish-Italian Symposium on Organic Chemistry
San Sebastian (13-15 July)
<i>"Well defined silver(I) macrocyclic complexes as catalyst for the Henry reaction"</i> | Poster |
| <u>2015</u> | International School of Organometallic Chemistry (ISOC 2015),
Camerino (5-9 September)
<i>"Glycoporphyrin Catalysts for Efficient C-H Bond Aminations by Organic Azides"</i> | Flash Oral Communication and Poster |

I declare that this curriculum vitae is a true and accurate statement of my current professional record.

