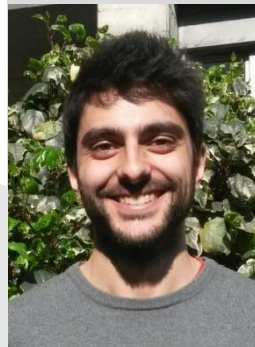


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# GIORGIO TSEBERLIDIS

RESEARCHER



## EXPERIENCE

- Jan 2019 – current ● **RESEARCHER (Post-doc)** ▼ Milano, IT  
MIBSOLAR Labs – Development of inks for low-cost inorganic solar cells.  
University of Milano Bicocca
- ASSISTANT TEACHER AND EXAMINER**  
General and Inorganic Chemistry – Professor Massimiliano D'Arienzo  
Physical Chemistry 3 – Professor Simona Olga Binetti
- Oct 2018 – Dec 2018 ● **JUNIOR CONSULTANT AT PQE** ▼ Firenze, IT  
Junior consultant in the assessment and validation of computerized laboratory instruments and systems for
- 2014-Feb 2018 ● **PHD SCHOOL IN INDUSTRIAL CHEMISTRY** ▼ Milano, IT  
Lab. of Inorganic and Coordination Chemistry  
University of Milan  
Supervisor: **Alessandro Caselli**  
Topic: synthesis of metal complexes with bio-inspired nitrogen-containing macrocyclic ligands and their use in catalysis.  
Skills: manipulations in Schlenk technique, organic synthesis, homogeneous catalysis, coordination chemistry, IR, UV-vis and NMR techniques, HPLC and GC analysis.
- 2016 ● **TRAINEESHIP DURING THE PhD** ▼ Oviedo, ES  
Department of Organic and Inorganic Chemistry  
University of Oviedo  
Supervisor: **Rubén Vicente**  
Six months of traineeship working on copper-catalyzed carbene insertion on X-H bonds.  
Skills: manipulations in Schlenk technique, organic synthesis, homogeneous catalysis.
- 2014-2017 ● **ASSISTANT TEACHER AND EXAMINER** ▼ Milano, IT  
Department of Chemistry  
University of Milan  
Head Professor: **Raffaella Soave**  
Three years as assistant teacher and examiner for the course of General and Inorganic Chemistry with Professor Raffaella Soave, for the degree course of Medical Biotechnology.
- 2014 ● **STAGE AS R&D CHEMIST** ▼ Nerviano, IT  
R&D group  
Nerpharma DS (Nerviano Medical Sciences)

Nationality: Greek  
Day of birth: 25/11/1988  
Place of birth: Milano, IT



## ABOUT ME

I am a young researcher with an inorganic chemistry and coordination chemistry background. Since I am very curious, I hope to have the possibility to expand my knowledge and to improve myself by learning many new things.



## LANGUAGES

Italian (mothertongue) ● ● ● ● ●  
Greek (mothertongue) ● ● ● ● ●  
English ● ● ● ● ●  
Spanish ● ● ● ● ●

Six months of stage as organic chemist in development of chemical processes in the production of anti-cancer drugs.

Skills: organic synthesis, development and scale-up of industrial processes, preparative HPLC, polymorphism studies.

2013

● **GRADUATE STUDENT INTERNSHIP**

♥ Milano, IT

Lab. of Inorganic and Coordination Chemistry  
University of Milan

Supervisor: **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.

Skills: manipulations in Schlenk technique, organic synthesis, homogeneous catalysis, coordination chemistry, IR, UV-vis and NMR techniques, HPLC and GC analysis.

2010

● **UNDERGRADUATE STUDENT INTERNSHIP**

♥ Milano, IT

Lab. of Electrochemistry  
University of Milan

Supervisor: **Luigi Falciola**

3 months of bachelor traineeship working on amperometry and voltammetry techniques.

Skills: electrochemical techniques.



**EDUCATION**

2014 - 2018

● **PhD STUDENT IN INDUSTRIAL CHEMISTRY**  
**XXX cycle**

♥ Milano, IT

University of Milan

Topic: "Synthesis of metal complexes with bio-inspired nitrogen-containing macrocyclic ligands and their use in catalysis".

Supervisor: **Alessandro Caselli**

2011 - 2013

● **MASTER DEGREE**

♥ Milano, IT

University of Milan  
Faculty of Chemical Sciences

Final score: 109/110

Thesis: "Synthesis of glycoporphyrin ligands that can be used in photodynamic therapy and their employment in homogeneous catalysis".

2007 - 2011

● **BACHELOR DEGREE**

♥ Milano, IT

University of Milan  
Faculty of Chemistry

Thesis: "Amperometric study of the degradation of hypochlorite in new gels for medical uses".

## PUBLICATIONS

- ✓ S. Riva, G. Tseberlidis, B. Lorenzi, M. Acciarri and S. Binetti.  
Deep study of  $\text{Cu}_2\text{ZnSnS}_4$  solar cells defects by SCAPS simulation and device parameters fitting.  
*Manuscript in preparation*, **2021**
- ✓ G. Tseberlidis, A.H. Husien, A. Le Donne, M. Acciarri and S. Binetti.  
Growth and Characterization of  $\text{Cu}_2\text{ZnGeS}_4$  Thin Films for Photovoltaic Applications  
*Manuscript in preparation*, **2021**
- ✓ G. Tseberlidis, A.H. Husien, S. Riva, L. Frioni, A. Le Donne, M. Acciarri and S. Binetti.  
Semi-transparent  $\text{Cu}_2\text{ZnSnS}_4$  solar cells by drop-casting of sol-gel ink, *Manuscript Submitted*, **2020**
- ✓ G. Tseberlidis, V. Trifiletti, L. 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
- ✓ V. Trifiletti, G. Tseberlidis, M. Colombo, A. Spinardi, S. Luong, M. Danilson, M. Grossberg, O. Fenwick and S. Binetti.  
Growth and Characterization of  $\text{Cu}_2\text{Zn}_{1-x}\text{Fe}_x\text{SnS}_4$  Thin Films for Photovoltaic Applications  
*Materials* **2020**, *13*, 1471; doi:10.3390/ma13061471
- ✓ N. Panza, A. di Biase, G. Tseberlidis, S. Rizzato, E. Gallo and A. Caselli.  
Catalytic Selective Oxidation of Primary and Secondary Alcohols Using Nonheme [Iron(III)(Pyridine-Containing Ligand)] Complexes *Eur. J. Org. Chem.*, **2020**, doi: 10.1002/ejoc.202001201
- ✓ 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
- ✓ 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**, DOI: 10.1021/acs.orglett.7b03704
- ✓ G. Tseberlidis, D. Intriari and A. Caselli.  
Catalytic Applications of Pyridine-Containing Macrocyclic Complexes.  
*Eur. J. Inorg. Chem.* **2017**, 3589 - 3603
- ✓ 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.
- ✓ 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.
- ✓ G. Tseberlidis, M. Dell'Acqua, D. Valcarenghi, 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.
- ✓ 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

- ✓ G. Tseberlidis, V. Trifiletti, G. Frioni, M. Acciarri and S. Binetti  
Kesterite solar-cells by drop-casting of inorganic sol-gel inks, *ENERCHEM 2, GRUPPO INTERDIVISIONALE DI CHIMICA PER LE ENERGIE RINNOVABILI*, Padova, 12 – 14 February **2020** [Poster]
- ✓ G. Tseberlidis, V. Trifiletti, M. Acciarri and S. Binetti  
Kesterite solar-cells by drop-casting of inorganic sol-gel inks, *10th European Kesterite+ workshop*, 20 – 22 November **2019** [Poster]
- ✓ G. Tseberlidis, V. Trifiletti, M. Acciarri and S. Binetti  
Development of sol-gel inks for low-cost inorganic solar cells, *XLVII Congresso Nazionale della Divisione di Chimica Fisica*, Roma , 1 – 4 July **2019** [Oral Communication]
- ✓ G. Tseberlidis, R. Vicente and A. Caselli  
Well defined iron(III) macrocyclic complexes as catalyst for alkene oxidation, *International School of Organometallic Chemistry (ISOC 2017)*, Camerino, 2 – 6 September **2017** [Poster]
- ✓ A. Caselli and G. Tseberlidis  
Designing new Ligands: Catalytic Applications of Pyridine-containing Macrocyclic Complexes, *2<sup>nd</sup> Tunisian Chemical Society Conference on Coordination Chemistry*, **2017**, Tunisia. [Oral Communication]
- ✓ G. Tseberlidis, F. Roncalli, M. Dell'Acqua, G. Abbiati and A. Caselli.  
Well defined silver(I) macrocyclic complexes as catalyst for the Henry reaction, *XLIV Congresso Nazionale di Chimica Inorganica*, **2016**, Padova. [Poster]
- ✓ G. Tseberlidis, R. Vicente and A. Caselli.  
Si-H bond insertion promoted by well-defined Cu(I) complexes of macrocyclic Pyridine-containing Ligands (Pc-L), *XLIV Congresso Nazionale di Chimica Inorganica*, **2016**, Padova. [Oral Communication]
- ✓ A. Caselli, G. Tseberlidis, D. Valcarenghi, G. Abbiati, M. Dell'Acqua.  
Silver(I) catalyzed Henry reaction, *Co.G.I.C.O.*, **2016**, *12th Congress of the Interdivisional Group of Organometallic Chemistry*, Genova. [Oral communication]
- ✓ G. Tseberlidis, D. Valcarenghi, M. Dell'Acqua, G. Abbiati and A. Caselli.  
Well defined silver(I) macrocyclic complexes as catalyst for the Henry reaction, *SISOC*, **2016**, *11th Spanish-Italian Symposium on Organic Chemistry – San Sebastian (Donostia) – Spain*. [Poster]
- ✓ G. Tseberlidis, P. Zardi, A. Caselli and E. Gallo.  
Glycoporphyrin Catalysts for Efficient C-H Bond Aminations by Organic Azides, *10th International School of Organometallic Chemistry (ISOC 2015)*, Camerino, 5 - 9 September **2015**. [Poster and Oral Communication]
- ✓ E. Gallo, P. Zardi, D. M. Carminati, G. Tseberlidis.  
Synthesis of Biologically Relevant Compounds Catalyzed by Metal Porphyrin Complexes, *227th ECS Meeting*, Chicago, Illinois, USA, May 24-28, **2015**. [Oral Communication].
- ✓ P. Zardi, G. Tseberlidis, D. M. Carminati, L. Lay, E. Gallo.  
Synthesis of New Glycoporphyrin Ligands for Homogeneous Catalysis, *Co.G.I.C.O. 2014, XI Congresso del Gruppo Interdivisionale di Chimica Organometallica*, Milano, 24 - 27 giugno **2014**. [Poster]
- ✓ P. Zardi, A. Caselli, P. Macchi, G. Tseberlidis, E. Gallo.  
Synthesis of Biological Aza-Compounds Catalysed by Ruthenium Porphyrins, *9th International School of Organometallic Chemistry (ISOC 2013)*, Camerino, 30 August - 3 September **2013**. [Poster]