

CURRICULUM VITAE

Stefano Santoro

(Last update 30/9/2025)

Research ID: C-5001-2009

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RESEARCH INTERESTS:

- Novel synthetic methodologies in homogeneous and heterogeneous catalysis
- Mechanistic investigations by means of DFT calculations
- Development of sustainable synthetic methodologies

SUMMARY OF SCIENTIFIC OUTPUT:

59 publications in peer-reviewed journals, 4 book chapters.

Sum of times cited: 3437 (Scopus)

H-index: 33 (Scopus)

CURRENT POSITION

- September 2017 – Today

Associate Professor in Organic Chemistry, Department of Chemistry, Biology and Biotechnology, University of Perugia, Italy.

PREVIOUS POSITIONS

- September 2014 – September 2017

Assistant Professor in Organic Chemistry, Department of Chemistry, Biology and Biotechnology, University of Perugia, Italy.

- January 2010 – August 2014

Postdoctoral Fellow, Department of Organic Chemistry, Stockholm University, Sweden (Advisor: Prof. Fahmi Himo).

- March 2009 – December 2009

Postdoctoral Fellow, Dipartimento di Chimica e Tecnologia del Farmaco, Università di Perugia, Italy (Advisors: Prof. Marcello Tiecco and Prof. Claudio Santi).

- November 2006 – July 2007

Visiting Ph.D. student, Center for Catalysis, Department of Chemistry, Århus University, Denmark (Advisor: Prof. Karl Anker Jørgensen).

EDUCATION

- November 2005 – February 2009

Ph.D. in “Chimica e Tecnologia del Farmaco”, Dipartimento di Chimica e Tecnologia del Farmaco, Università di Perugia, Italy (Advisors: Prof. Marcello Tiecco and Prof. Claudio Santi).

- October 1999 – October 2005

Master Degree in “Chimica e Tecnologia Farmaceutiche”, *cum laude*, Faculty of Pharmacy, University of Perugia, Italy.

FELLOWSHIPS AND AWARDS

- 2014-2017 "Rita Levi Montalcini" Program (Rientro dei Cervelli)

- 2010-2011 Wenner-Gren Fellowship

- 2009 CINMPIS Fellowship

TEACHING ACTIVITIES

- "Chimica Organica Superiore" course for the master's degree in "Scienze Chimiche", starting from 2018/2019.
- "Chimica Organica" course for the bachelor's degree in "Biotechnologie", starting from 2016/2017.
- "Approcci Computazionali alle Reazioni Organiche" course for the master's degree in "Scienze Chimiche", starting from 2016/2017.
- "Laboratorio di Chimica Organica 2" course for the bachelor's degree in "Chimica", from 2017/2018 to 2021/2022.
- "Laboratorio Interdisciplinare di Chimica" course for the bachelor's degree in "Biologia", 2014/2015 and 2015/2016.

INVITED SEMINARS

- 4th September 2019 - Department of Organic Chemistry, Stockholm University (Sweden)
- 13th June 2017 – Department of Organic Chemistry, Stockholm University (Sweden)
- 25th October 2016 - Department of Chemistry, Tianjin University (China)
- 24th October 2016 - Institute of New Energy Material Chemistry, Nankai University (China)
- 15th September 2016 - Department of Organic Chemistry, Stockholm University (Sweden)
- 18th December 2013 - Dipartimento di Chimica "G. Ciamician", Università di Bologna (Italy)
- 16th December 2013 - Dipartimento di Chimica, Università della Calabria (Italy)

SELECTED RECENT PUBLICATIONS

- M. Goudarzi, A. Alagiyawanna, A. Serafino, S. Rizzato, F. Bertocchi, F. Terenziani, S. Santoro, W. Qin, G. Cera, V. Pirovano "Enantioselective Gold(I)-catalysed Alkyne Hydroarylations for Inherently Chiral Calix[4]arenes" **Chem. Commun.** **2025**, *in press*, DOI: 10.1039/D5CC04405G
- V. Klein, F. Schuster, J. Amthor, H. Maid, P. Bijalwan, F. Himo, S. Santoro, S. B. Tsogoeva "Development of Organoautocatalyzed Double σ -Bond C(sp²)-N Transamination Metathesis Reaction" **Angew. Chem. Int. Ed.**, **2025**, *64*, e202505275
- S. Santoro "Mechanism of Iron-Catalyzed C–H Alkenylation of Pivalophenone Derivatives with Unsymmetric Internal Alkynes" **Int. J. Quantum Chem.** **2024**, *124*, e27479
- N. Salameh, I. Anastasiou, F. Ferlin, F. Minio, S. Chen, S. Santoro, P. Liu, Y. Gu, L. Vaccaro "Heterogeneous palladium-catalysed intramolecular C(sp³)–H α -arylation for the green synthesis of oxindoles" **Mol. Catal.** **2022**, *522*, 112211
- S. Santoro, F. Himo "Mechanism of the Kinugasa Reaction Revisited" **J. Org. Chem.** **2021**, *86*, 10665
- F. Ferlin, A. Zangarelli, S. Lilli, S. Santoro, L. Vaccaro "Waste-Minimized Synthesis of C2 Functionalized Quinolines Exploiting Iron-Catalysed C–H Activation" **Green Chem.** **2021**, *23*, 490
- I. Anastasiou, F. Ferlin, O. Viteritti, S. Santoro, L. Vaccaro "Pd/C-Catalyzed Aerobic Oxidative C–H Alkenylation of Arenes in γ -Valerolactone (GVL)" **Mol. Catal.** **2021**, *513*, 111787
- F. Campana, B. M. Massaccesi, S. Santoro, O. Piermatti, L. Vaccaro "Polarclean/Water as a Safe and Recoverable Medium for Selective C2-Arylation of Indoles Catalyzed by Pd/C" **ACS Sustainable Chem. Eng.** **2020**, *8*, 16441
- F. Ferlin, M. Van der Hulst, S. Santoro, D. Lanari, L. Vaccaro "Continuous Flow/Waste-Minimized Synthesis of Benzoxazoles catalysed by Heterogeneous Manganese systems" **Green Chem.** **2019**, *21*, 5298
- S. Santoro, F. Ferlin, L. Ackermann, L. Vaccaro "C–H functionalization reactions under flow conditions" **Chem. Soc. Rev.** **2019**, *48*, 2767