Curriculum Vitae Prof. Dr. Giovanni Maestri

PERSONAL INFORMATION

Family name, First name: Maestri, Giovanni
Researcher unique identifier(s) (Research ID): B-2234-2014; ORCID: 0000-0002-0244-8605
Date of birth: 14/06/1984
Nationality: Italian
Civil status: Married, father of two

Main interests: organometallic catalysis, synthesis, radical and computational chemistry

• EDUCATION

2011 PhD Chemical Sciences, research advisor: Prof. Marta Catellani
Università degli Studi di Parma, Dip. di Chimica Organica ed Industriale, Parma, Italy

2007 Master Industrial Chemistry, research advisors: Prof. Marta Catellani and Prof. C. Elsevier
Università degli Studi di Parma, Dip. di Chimica Organica ed Industriale, Parma, Italy

• CURRENT POSITION(S)

2018 – Associate Professor (*Tenured*)
Università di Parma, Dipartimento SCVSA, Parma, Italy
From Dec. 31st 2018.

• PREVIOUS POSITIONS

2013 – 2018 Assistant Professor/Ricercatore RTD-a
Università di Parma, Dipartimento SCVSA, Parma, Italy
From Dec. 31st 2013 to Dec. 30th 2018.

2012 – 2013 Researcher/Chercheur CDD
Creation of a new research group with Prof. Max Malacria, newly appointed Director.
Institut de Chimie des Substances Naturelles, CNRS UPR 2301, Univ Paris Saclay, Gif/Yvette, France
From Jul. 20th 2012 to Dec. 30th 2013.

2011 – 2012 Post-doc, research advisors: Prof. Louis Fensterbank and Dr. Emmanuel Lacôte
Sorbonne Universités, Univ Paris 06-Pierre et Marie Curie, UMR CNRS 8232, Paris, France
From Jan. 15th 2011 to Jul. 14th 2012.

• FELLOWSHIPS

2010 Eight months research visit at Univ Paris 06, Paris, France. DFT studies with Dr. Etienne Derat

2007 Four months research visit at UVA, Amsterdam, NL. Catalysis with Prof. C. Elsevier

- **SUPERVISION OF STUDENTS AND POSTDOCTORAL FELLOWS**

2021-	1 PhD Student (starting, till fall 2024), 2 Master Student (6 months, ongoing), 3 Bachelor Students (2 months each)
2020-	1 PhD Student (ongoing, till fall 2023), 2 Bachelor Students (2 months each)
2019-	1 PhD Student (ongoing, till fall 2022), 2 Bachelor Students (2 months each)
2018-	1 Postdoc (12 months), 1 PhD Student (ongoing, till winter 2021), 1 Master Student (6 months), 1 Bachelor Students (2 months each)
2017	2 Postdoc (12 months each), 2 Bachelor Students (2 months each)
2016	1 Postdoc (24 months), 1 PhD Student (36 months), 3 Bachelor Students (2 months each)
2015	2 PhD Students (36 months each), 1 Graduate Student (12 months), 2 Master Students (6 months each)
2014	2 Master (6 months each) and 2 Bachelor Students (2 months each) Università di Parma, Dipartimento SCVSA, Parma, Italy
2012-15	2 Postdocs (24 months each) and 3 PhD students (36 months each), codirected with Prof. Max Malacria; 2 Master (6 months each) and 2 Bachelor Students (2 months each) Institut de Chimie des Substances Naturelles, CNRS UPR 2301, Gif/Yvette, France
2008-09	2 Bachelor Students (2 months each), with Prof. Marta Catellani Università degli Studi di Parma, Dip. di Chimica Organica ed Industirale, Parma, Italy

- **TEACHING ACTIVITIES**

2020 –	Professor – Reactions promoted by visible light (8 hours, 1 CFU/year), PhD School in Chemical Sciences, Università di Parma, Dipartimento SCVSA, Parma, Italy
2018 –	Professor – Green Chemistry (48 hours, 6 CFU/year), 1st year MS in Industrial Chemistry, Università di Parma, Dipartimento SCVSA, Parma, Italy
2014 –	Professor – Laboratory of Organic Chemistry I (62 hours, 6 CFU/year, +30 hours/2CFU for splitted lab parts), 1st year BS in Chemistry, Università di Parma, Dipartimento SCVSA, Parma, Italy

- **INSTITUTIONAL RESPONSIBILITIES**

2021 –	Dean delegate as representative of the University in the national SPRING cluster.
2017 –	Doctorate School member, Università di Parma, Dipartimento SCVSA, Parma Italy
2014 –	Faculty member, Università di Parma, Dipartimento SCVSA, Parma Italy
2009	Undergraduate Chemistry Student Advisor (90 hours), Faculty of Sciences, Università di Parma, Parma, Italy

- **COMMISSIONS OF TRUST**

2021 –	Reviewer for the French Agence Nationale de la Recherche – ANR
2015 –	Reviewer for the Chilean National Science and Technology Commission – FONDECYT
2012 –	Reviewer for Wiley (ACIE, CEJ, EurJOC), ACS (JACS, ACS Catalysis, OL, Organometallics, JOC) and RSC (ChemSci, Green Chem, OBC, RSC Advances), Nature publishing (NatChem, NatCommun) (>60 total)

- **PRIZES & HABILITATIONS**

2019-20	Habilitation to Full Professorship in Organic Chemistry (SSD CHIM/06), ASN2018
2017	Junior prize from the Division of Organic Chemistry of the Italian Chemical Society "Organic Chemistry in its methodological aspects"
2016-17	Habilitation to Associate Professorship in Organic Chemistry (SSD CHIM/06), ASN2016

- **INVITED SPEAKERSHIP IN INTERNATIONAL CONFERENCES**

2021 "Catalysis with all-metal aromatics" at the 2021 International Chemical Congress of Pacific Basin Societies (PACIFICHEM), section N. 229 on New Horizon of Main Group and Transition-metal Aromatics, December 16th-21st 2021, Honolulu (US), program at https://pacifichem.org

2018 "Expanding the chemistry of stable trinuclear all-metal aromatics" at the 6th International Conference on Chemical Bonding 2018, July 13th-17th 2018, Kauai (US), program at http://www.chem.ucla.edu/~ana/ICCB2018.html

2017 "Connecting Homogeneous and Heterogeneous Catalysis with All-Metal Aromatics" at the XXVI Congresso Nazionale della SCI, 10-14 Settembre 2017, Paestum, SA (IT), program at http://sci2017.org

2017 "The chemistry of stable trinuclear all-metal aromatics" at the 5th International Conference on Chemical Bonding 2018, June 22nd-26th 2018, Kauai (US), program at http://www.chem.ucla.edu/~ana/ICCB2017.html

2016 "All-Metal Aromatics links Homogeneous and Heterogeneous Catalysis" at the 6th Asia-Oceania Conference on Sustainable and Green Chemistry, Novermber 27th-30th 2016, City University of Hong Kong (PRC), program at http://www.cityu.edu.hk/chem/aoc-sgc6/

- **ORGANIZATION OF CONFERENCES**

2021 Session chair at the 2021 International Chemical Congress of Pacific Basin Societies (PACIFICHEM), section N. 229 on New Horizon of Main Group and Transition-metal Aromatics, December 16th-21st 2021, Honolulu (US), program at https://pacifichem.org

2020 Organizing committee of SCI-VISYOCHEM, November 3rd-6th, 2020 program at scivisyochem2020.weebly.com

2018 Session chair at the 6th International Conference on Chemical Bonding 2018, July 13th-17th 2018, Kauai (US), program at http://www.chem.ucla.edu/~ana/ICCB2018.html

- **INVITED LECTURES, SHORT TALKS, SEMINARS AND COWORKERS**

2021 "Strategies for catalytic cyclizations: from cyclopropanes to cyclooctanes", Seminars of the Master in Chemistry of the Universié Lyon I Claude Bernard, Villeurbanne, FR, May 27th 2021

2019 "A tribute to IPCM from the University of Parma", 10ème Anniversaire de l'IPCM, Sorbonne Université, Paris, FR, June 18th 2019

2012 "Organometallic cascades involving Pd(IV) complexes: novel synthetic applications and mechanistic studies", invited by Prof. Stefan Matile, University of Genevre, Genevre, CH, Septemer 21st 2012

2011 "Mechanistic studies on organometallic cascades involving Pd(IV) species" invited by Prof. Michele Parrinello, ETH-Lugano, Lugano, CH, Novermber 14th, 2011

2012- Students lead by GM presented more than 30 posters and 13 short oral talks in national and international venues

- **FUNDING**

Project Title	*Funding source*	*Amount (Euros)*	*Period*	*Role*
AROMA-Trip	MIUR	660 Keu	3 years, 23/9/2015-23/9/2018	Principal Investigator (PI)
Caratterizzazione materiali abrasivi	P. Corazzi SPA, Italy	34 Keu	1 year, 1/6/2015-30/6/2016	PI
RADICAT	UniPR	6 Keu	1 year, 1/9/2016-31/8/2017	PI
Eliminazione di specie chimiche presenti in acqua	GEA Procomac	15 Keu	1 year, 18/02/2018 al 30/09/2018	Co-PI
Synthesis of DME	ENEA	50 Keu (tot)	Ongoing, 3 contracts since 2017	Member
Characterization, analyses and reports	Third parties	60 Keu (tot)	Ongoing, since 2015	PI

- **MAJOR INTERNATIONAL COLLABORATIONS**

- Theoretical study on the role of Non-Covalent Interactions, with Dr. E. Derat, Sorbonne Universités, Univ Paris 06, UMR CNRS 8232, Paris, France

- Total synthesis and biological studies on natural anthracyclines, with Dr. R. Rodriguez, French CNRS, Institut Curie, Paris, France

- Novel Photoredox Cascades, with Dr. Geraldine Masson, ICSN, CNRS UPR 2301, Gif/Yvette, France

- Novel metal-aromatic bonding, with Prof. Alexander Boldyrev, Utah State University, Logan, UT, US

Summary of scientific output (since 2008):

60 articles (including 2 Nature Chemistry, 5 Angewandte Chemie), 6 book chapters, 1 patent. Supervised students presented more than 30 posters in national and international meetings and 13 oral communications on projects leaded and co-leaded by GM.
Sum of times cited (since 2009, as of Scopus): 1413 (*1245*)
H-index: 19 (*17 without self-citations*)

Articles as corresponding author

25. Camedda, Lanzi, Bigi, Maggi, Maestri,* *Org. Lett.* **2021** *23* 6536.
24. Li, Li, Wang, Wu, Wang,* Maestri,* Malacria, Liu *Dalton Trans.* **2021** *Advance article*, doi.org/10.1039/D1DT01597D.
23. Serafino, Balestri, Marchiò, Malacria, Derat, Maestri* *Org. Lett.* **2020** *22* 6354.
22. Camedda, Serafino, Maggi, Bigi, Cera, Maestri* *Synthesis* **2020** *52* 1762. *Feature Article*.
21. Cera, Della Ca', Maestri* *Chem. Sci.* **2019** *10* 10297.
20. Lanzi, Santacroce, Balestri, Marchiò, Bigi, Maggi, Malacria, Maestri* *Angew. Chem. Int. Ed.* **2019** *58* 6703, *Hot Paper*.
19. Cecchini, Cera, Lanzi, Marchiò, Malacria, Maestri* *Org. Chem. Front.* **2019** *6* 3584.
18. Cecchini, Lanzi, Cera, Malacria, Maestri* *Synthesis* Golden Issue **2019** *51* 1216.
17. Cera, Lanzi, Bigi, Maggi, Malacria, Maestri* *Chem. Commun.* **2018** *54* 14021.
16. Cera, Lanzi, Balestri, Della Ca', Maggi, Bigi, Malacria, Maestri* *Org. Lett.* **2018** *20* 3220.
15. Lanzi, Caneque, Marchiò, Maggi, Bigi, Malacria, Maestri* *ACS Catalysis* **2018** *8* 144.
14. Paris, Bigi, Cauzzi, Maggi, Maestri* *Green Chem.* **2018** *20* 382.
13. Wang, Monfredini, Deyris, Blanchard, Derat, Maestri,* Malacria *Chem. Sci.* **2017** *8* 7394.
12. Monfredini, Santacroce, Marchiò, Maggi, Bigi, Maestri,* Malacria* *ACS Sust. Chem. Eng.* **2017** *5* 8205, *part of special virtual issue Festschrift to Istvan Horvath.*
11. Santacroce, Bigi, Casnati, Maggi, Storaro, Moretti,* Vaccaro, Maestri* *Green Chem.* **2016** *18* 5764.
10. Monfredini, Santacroce, Deyris, Maggi, Bigi, Maestri,* Malacria* *Dalton Trans.* **2016** *45* 15786, *highlighted with back cover*
9. Santacroce, Paris, Cauzzi, Maggi, Maestri* *Eur. J. Org. Chem.* **2016** *81* 436.
8. Wang, Deyris, Caneque, Blanchard, Li, Bigi, Maggi, Blanchard, Maestri,* Malacria *Chem. Eur. J.* **2015** *21* 12271, *Hot Paper, highlighted with back cover.*
7. Deyris, Caneque, Wang, Retailleau, Bigi, Maggi, Maestri* Malacria* *Chem. Cat. Chem.* **2015** *7* 3266.
6. Gomes, Narbonne, Blanchard, Maestri,* Malacria* *Org. Chem. Front.* **2015** *2* 464.
5. Santacroce, Paris, Sartori, Maggi, Maestri* *J. Org. Chem.* **2014** *79* 8477.
4. Blanchard, Fensterbank, Lacôte, Gontard, Maestri,* Malacria *Angew. Chem. Int. Ed.* **2014** *53* 1987.
3. Narbonne, Retailleau, Maestri,* Malacria* *Org. Lett.* **2014** *16* 628, *highlighted in SYNFACTS*
2. Deyris, Caneque, Gomes, Narbonne, Maestri,* Malacria* *Heterocycles* **2014** *88* 807.
1. Maestri,* Malacria, Derat* *Chem. Commun.* **2013** *49* 10424.

Articles

35. Raviola, Carrera, Serra, Palmieri, Lupidi, Maestri, Protti *ChemPhotoChem* **2021** *Early view*, doi.org/10.1002/cptc.202100081.
34. Kulichenko, Fedik, Monfredini, Muñoz-castro, Balestri, Boldyrev, Maestri *Chem. Sci.* **2021** *12* 477.
33. Chiurchiù, Xhafa, Ballini, Maestri, Protti, Palmieri *Adv. Synth. Catal.* **2020** *362* 4680.
32. Viscardi, Barbarossa, Mirabile Gattia, Maggi, Maestri, Pancrazzi, *New J. Chem.* **2020** *44* 16810.
31. Maestri, Derat *Nature Chem.* **2019** *11* 1082.
30. Casnati, Perrone, Mazzeo, Bacchi, Mancuso, Gabriele, Maggi, Maestri, Motti, Stirling, Della Ca' *J. Org. Chem.* **2019** *84* 3477.
29. Paris, Oldani, Aricò, D'Urso, Bigi, Maestri, Pancrazzi, Maggi *ACS Sust. Chem. Eng.* **2019** *7* 5886.
28. Barbarossa, Viscardi, Maestri, Maggi, Mirabile Gattia, Paris *Mat. Res. Bull.* **2019** *113* 64.
27. Lanzi, Merad, Boyarskaya, Maestri, Allain, Masson *Org. Lett.* **2018** *20* 5247.
26. Casnati, Fontana, Coruzzi, Aresta, Corriero, Maggi, Maestri, Motti, Della Ca' *Chem. Cat. Chem.* **2018** *10* 4346.
25. Piscopo, Tochtermann, Schwarzer, Boskovic, Maggi, Maestri, Loebbecke *React. Chem. Eng.* **2018** *3* 13.
24. Casnati, Maggi, Maestri, Della Ca', Motti *J. Org. Chem.* **2017** *82* 8296.
23. Santacroce, Duboc, Malacria, Maestri, Masson *Eur. J. Org. Chem.* **2017** 2095, *highlighted with back cover and in SYNFACTS*
22. Della Ca', Maestri, Motti, Malacria *Heterocycles* **2017** *95* 753.
21. Caneque, Gomes, Trang, Blanchard, Retailleau, Gallard, Maestri, Malacria, Rodriguez *Synthesis* **2017** *49* 587.
20. Maestri, Caneque, Della Ca', Derat, Catellani, Malacria *Org. Lett.* **2016** *18* 6108.
19. Maggi, Shiju, Santacroce, Maestri, Bigi, Rothenberg *Beilstein J. Org. Chem.* **2016** *12* 2173.
18. Piscopo, Schwarzer, Herrmann, Affini, Pelagatti, Maestri, Maggi, Loebbecke *Chem. Cat. Chem.* **2016** *8* 1293.
17. Caneque, Gomes, Trang, Maestri, Malacria, Rodriguez *Nature Chem.* **2015** *7* 744.
16. Piscopo, Maestri, Paris, Santacroce, Maggi *Arkivok* **2015** *7* 1.
15. Maggi, Piscopo, Maestri *Arkivok* **2015** *4* 107.
14. Caneque, Truscott, Rodriguez, Maestri, Malacria *Chem. Soc. Rev.* **2014** *43* 2916.
13. Simmoneau, Maestri, Fensterbank, Malacria *Arkivok* **2014** *3* 287.
12. Derat, Maestri *WIREs Comput Mol Sci.* **2013** *3* 529.
11. Malacria, Maestri *J. Org. Chem.* **2013** *78* 1323.
10. Maestri, Larraufie, Ollivier, Malacria, Fensterbank, Lacôte *Org. Lett.* **2012** *14* 5538.
9. Larraufie, Maestri, Malacria, Ollivier, Fensterbank, Lacôte *Synthesis* **2012** *44* 1279.
8. Della Ca', Maestri, Malacria, Derat, Catellani *Angew. Chem. Int. Ed.* **2011** *50* 12257.
7. Larraufie, Maestri, Baume, Derat, Ollivier, Fensterbank, Courillon, Lacôte, Catellani, Malacria, *Angew. Chem. Int. Ed.* **2011** *50* 12253.

6. Maestri, Della Ca', Motti, Malacria, Derat, Catellani *J. Am. Chem. Soc.* **2011** *133* 8574.
5. Maestri, Larraufie, Derat, Ollivier, Fensterbank, Lacôte, Malacria *Org. Lett.* **2010** *12* 5692, *highlighted in SYNFACTS*
4. Chiusoli, Catellani, Costa, Motti, Della Ca', Maestri *Coord. Chem. Rev.* **2010** *254* 456.
3. Maestri, Della Ca', Catellani *Chem. Commun.* **2009** *45* 4892.
2. Della Ca', Maestri, Catellani *Chem. Eur. J.* **2009** *15* 7850.
1. Hauwert, Maestri, Sprengers, Catellani, Elsevier *Angew. Chem. Int. Ed.* **2008** *47* 3223.

Book Chapters

6. Maestri, Serafino, *Palladium(I)-Mediated Reactions* in Science of Synthesis: Free Radicals: Fundamentals and Applications in Organic Synthesis Volume 1, Ed. A. Furstner, E. Carreira, M. Faul, S. Kobayashi, Volume Ed. L. Fensterbank and C. Ollivier, Thieme, Stuttgart, **2021**.
5. Maestri, Serafino, Camedda, *Recent Advances on the Synthesis of [4.3.0] Bicycles Featuring Three Heteroatoms Including a Bridgehead One* in Comprehensive Heterocyclic Chemistry IV, Ed. Geraldine Masson, Elsevier Inc., **2021**.
4. Motti, Della Ca', Maestri, Malacria, *Pd-Catalyzed Sequential Reactions Involving C–H Bond Activation: A Green and Sustainable Tool for Natural and Industrial Product Synthesis* in Advanced Green Chemistry, Ed. M. Malacria and I. Hortvath, World Scientific Publishing, Singapore, **2020**.
3. Truscott, Maestri, Rodriguez, Malacria, *Catalytic Cycloaddition Reactions* in Modern Alkyne Chemistry, Ed. B. M. Trost and C.-J. Li, Wiley-VCH, Weinheim, **2014**.
2. Baralle, Baroudi, Daniel, Fensterbank, Goddard, Lacôte, Larraufie, Maestri, Malacria, Ollivier, *Main Group Elements in Radical Chemistry* in Encyclopedia of Radicals in Chemistry, Biology and Materials, Ed. C. Chatgilialoglu and A. Studer, John Wiley & Sons, Chichester, **2012**.
1. Baralle, Baroudi, Daniel, Fensterbank, Goddard, Lacôte, Larraufie, Maestri, Malacria, Ollivier, *Radical Cascade Reactions* in Encyclopedia of Radicals in Chemistry, Biology and Materials, Ed. C. Chatgilialoglu and A. Studer, John Wiley & Sons, Chichester, **2012**.

Patents

1. Rodriguez, Caneque, Gomes, Trang, Malacria, Maestri, *Method for preparing marmycin A and analogs thereof, and also uses thereof as antibiotics, anticancer, and antimalarials agents* FR 3025512 A1 20160311, PCT Int. Appl. (**2016**), WO 2016034559 A1 20160310.

Parma, 23/8/2021

F.to Prof. Giovanni Maestri