

# GIORGIO OLIVO

## EMPLOYMENT

15/11/2021-now	<b>Assistant professor of Organic Chemistry</b> at “La Sapienza” University of Rome (Ricercatore a tempo determinato di tipologia B)
<i>Work</i>	Supramolecular catalysis, C-H functionalization, radical chemistry
01/2020-11/2021	<b>Post-doctoral fellow</b> (Assegno di ricerca) at “La Sapienza”, University of Rome.
<i>Research group</i>	Prof. Stefano Di Stefano
<i>Work</i>	Supramolecular Catalysis
02/2016-10/2020	<b>Post-doctoral fellow</b> at QBIS-CAT, IQCC, Universitat de Girona (fellowships: 2016 “borsa di perfezionamento all’estero”, 2017-2019 “Juan de La Cierva”)
<i>Research group</i>	Prof. Miquel Costas
<i>Work</i>	C-H oxidation catalysed by Fe and Mn complexes

## EDUCATION

<b>10/2012-12/2015</b>	<b>PhD in Chemistry</b> at “La Sapienza”, University of Rome.
<i>Thesis Title</i>	Nonheme iron complexes as catalysts for non-activated C-H oxidations
<i>Supervisors</i>	Prof. Stefano Di Stefano
<b>10/2014-05/2015</b>	<b>Short stay</b> at “Universitat de Girona”, Catalunya, Spain (group of M. Costas)
<b>2010-2012</b>	<b>Master’s degree in chemistry</b> at “La Sapienza”, University of Rome. (110/110 cum laude, average grade 29.6/30).
<i>Thesis Title</i>	Study of electronic and structural effects on aliphatic C-H oxidation by nonheme iron complexes.
<i>Supervisors</i>	Prof. S. Di Stefano, Prof. L. Mandolini
<b>2007-2010</b>	<b>Bachelor’s degree in chemistry</b> at “La Sapienza”, University of Rome. (110/110 cum laude, average grade 28.7/30).
<i>Thesis Title</i>	Functionalization of Calix[4]arene systems
<i>Supervisors</i>	Prof. S. Di Stefano, Prof. L. Mandolini
<b>2002-2007</b>	“ <b>Diploma di maturità classica</b> ” (high school) with full marks (100 /100) at Liceo classico “Vitruvio Pollione”, Formia (LT).

## PUBLICATIONS

<i>Bibliometric Indexes</i>	<b>Total number</b> of peer reviewed publications = <b>28</b> ( <b>14</b> as <b>first author</b> , <b>7</b> as <b>corresponding author</b> ; <b>26</b> on <b>Q1</b> journals)
	Book chapters = <b>1</b> Highlights and Previews = <b>1</b>
	Conference paper = <b>1</b>
	<b>h-index</b> (Scopus, October 2022) = <b>15</b>
	<b>Total number of citations</b> (Scopus, October 2022) = <b>789</b>

# GIORGIO OLIVO

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**Average Impact Factor = 8.51**

(**10.67** for **first-author** publications, **17.37** for **corresponding** author ones)

## Selected publications

\* = corresponding author, † = equal contribution.

1. A. Call, M. Cianfanelli, P. Besalú-Sala, G. Olivo, A. Palone, L. Vicens, X. Ribas, J. M. Luis\*, M. Bietti\*, M. Costas\*, *J. Am. Chem. Soc.* **2022**, .  
*Carboxylic Acid Directed  $\gamma$ -Lactonization of Unactivated Primary C–H Bonds Catalyzed by Mn Complexes: Application to Stereoselective Natural Product Diversification*
2. L. Vicens, G. Olivo\*, M. Costas\*, *Angew. Chem. Int. Ed.* **2022**, *134*, e202114932  
*Remote Amino Acid Recognition Enables Effective Hydrogen Peroxide Activation at a Manganese Oxidation Catalyst*
3. G. Olivo\*, G. Capocasa, D. Del Giudice, O. Lanzalunga, S. Di Stefano\*, *Chem. Soc. Rev.* **2021**, *50*, 7681-7724.  
*New Horizons for Catalysis Disclosed by Supramolecular Chemistry*
4. L. Vicens, G. Olivo\*, M. Costas\*, *ACS Catal.* **2020**, *10*, 8611-8631  
*Rational Design of Bioinspired Catalysts for Selective Oxidations*
5. G. Olivo\*, † G. Capocasa, † B. Ticconi, O. Lanzalunga, S. Di Stefano\*, M. Costas\*, *Angew. Chem. Int. Ed.* **2020**, *59*, 12703-12708.  
*Predictable Selectivity in Remote C–H Oxidation of Steroids: Analysis of Substrate Binding Mode*  
Selected as a VIP paper
6. M. Cianfanelli, † G. Olivo, † M. Milan, R. J. M. Klein Gebbink, X. Ribas, M. Bietti\*, M. Costas\*, *J. Am. Chem. Soc.* **2020**, *142*, 1584-1593.  
*Enantioselective C–H Lactonization of Unactivated Methylene Directed by Carboxylic Acids*  
Highlighted Organic Chemistry Portal on October 26<sup>th</sup>, 2020 (<https://www.organic-chemistry.org/Highlights/2020/26October.shtm>)
7. G. Capocasa, F. Sessa, F. Tavani, G. Olivo, M. Monte, S. Pascarelli, O. Lanzalunga\*, S. Di Stefano\*, P. D'Angelo\*, *J. Am. Chem. Soc.* **2019**, *141*, 2299-2304.  
*Coupled X-Ray Absorption/UV-Vis Monitoring of Fast Oxidation Reactions Involving a Non-Heme Iron Oxo Complex*  
Highlighted in the ESRF Spotlight on Science on 22/03/2019.
8. G. Olivo\*, G. Capocasa, O. Lanzalunga, S. Di Stefano\*, M. Costas\*, *Chem. Commun.* **2019**, *7*, 917-920.  
*Enzyme-like Substrate-Selectivity in CH Oxidation Enabled by Recognition*
9. D. Vidal, G. Olivo\*, M. Costas\*, *Chem. A Eur. J.*, **2018**, *24*, 5042-5054.

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*Controlling selectivity in aliphatic C-H oxidation via supramolecular recognition*

10. G. Olivo\*, G. Farinelli, A. Barbieri, O. Lanzalunga, S. Di Stefano\*, M. Costas\*, *Angew. Chem. Int. Ed.*, **2017**, 56, 16347-16351.  
*Supramolecular Recognition Allows Remote, Site-Selective C-H Oxidation of Methylenic Sites in Linear Amines*
  11. G. Capocasa<sup>†</sup>, G. Olivo<sup>†</sup>, A. Barbieri, O. Lanzalunga, S. Di Stefano, *Catal. Sci. Tech.* **2017**, 7, 5677-5686.  
*Direct hydroxylation of benzene and aromatics with H<sub>2</sub>O<sub>2</sub> catalyzed by a self-assembled iron complex: evidence for a metal-based mechanism*  
Selected as a Hot Article
  12. G. Olivo, M. Nardi, A. Barbieri, A. Lapi, L. Gómez, O. Lanzalunga, M. Costas\*, S. Di Stefano\*, *Inorg. Chem.*, **2015**, 54, 10141-10152.  
*C-H bond oxidation catalyzed by an imine-based iron complex: a mechanistic insight*
- Other publications*
13. M. Di Berto Mancini, A. Del Gelsomino, S. Di Stefano, F. Fratello, A. Lapi, O. Lanzalunga\*, G. Olivo, S. Sajeve, *ACS Omega* **2021**, 6, 26428-26438.
  14. F. Fratello, G. Capocasa, G. Olivo, K. A. Hady, C. Sappino, M. Di Berto Mancini, S. Levi Mortera, O. Lanzalunga, S. Di Stefano\*, *RSC Adv.* **2021**, 11, 537-542
  15. B. Ticconi, G. Capocasa, A. Cerrato, S. Di Stefano, A. Lapi, B. Marincioni, G. Olivo, O. Lanzalunga\*, *Catal. Sci. Tech.* **2021**, 11, 171-178.
  16. G. Capocasa, M. Di Berto Mancini, F. Fratello, O. Lanzalunga, G. Olivo, S. Di Stefano\*, *Eur. J. Org. Chem.* **2020**, 23, 3390-3397.
  17. B. Ticconi, A. Colcerasa, S. Di Stefano, O. Lanzalunga\*, A. Lapi, M. Mazzonna, G. Olivo, *RSC Adv.*, **2018**, 8, 19144-19151.
  18. G. Olivo, A. Barbieri, V. Dantignana, F. Sessa, V. Migliorati, M. Monte, S. Pascarelli, T. Narayanan, O. Lanzalunga\*, S. Di Stefano\*, P. D'Angelo\*, *J. Phys. Chem. Lett.*, **2017**, 8, 2958-2963.
  19. S. Albano, G. Olivo, L. Mandolini, F. Ugozzoli, S. Di Stefano\*, *J. Org. Chem.*, **2017**, 82, 3820-3825.
  20. G. Olivo, O. Cussò, M. Borrell, M. Costas\*, *J. Biol. Inorg. Chem.*, **2017**, 22, 425-452.
  21. A. Barbieri, S. Di Stefano, O. Lanzalunga\*, A. Lapi, M. Mazzonna, G. Olivo, *Phosphorus, Silicon and the Related Elements.* **2017**, 192, 241-244.

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22. A. Barbieri, T. Del Giacco, S. Di Stefano, O. Lanzalunga\*, A. Lapi, M. Mazzonna, G. Olivo, *J. Org. Chem.* **2016**, *81*, 12382-12387.
23. G. Olivo, O. Cussó, M. Costas\*, *Chem. As. J.* **2016**, *11*, 3148-3158.
24. G. Olivo, S. Giosia, A. Barbieri, O. Lanzalunga, S. Di Stefano\*, *Org. Biomol. Chem.* **2016**, *14*, 10630 – 10635.
25. A. Barbieri, R. De Carlo, T. Del Giacco, S. Di Stefano, O. Lanzalunga\*, A. Lapi, M. Mazzonna, G. Olivo, M. Salamone, *J. Org. Chem.*, **2016**, *81*, 2513-2520.
26. G. Olivo, O. Lanzalunga, S. Di Stefano\*, *Advanced Synthesis & Catalysis*, **2016**, *358*, 843-863.
27. A. Barbieri, M. De Gennaro, S. Di Stefano, O. Lanzalunga\*, A. Lapi, M. Mazzonna, G. Olivo, B. Ticconi, *Chem. Commun.* **2015**, *51*, 5032-5035.
28. G. Olivo, G. Arancio, L. Mandolini, O. Lanzalunga, S. Di Stefano\*, *Catal. Sci. Tech.* **2014**, *4*, 2900-2903.
29. G. Olivo, O. Lanzalunga, L. Mandolini, S. Di Stefano\*, *J. Org. Chem.* **2013**, *58*, 11508-11512.

*Previews* G. Olivo,\* M. Bietti,\* *Chem* **2021**,

*Book chapters* G. Olivo, O. Lanzalunga, S. Di Stefano, in *Alkane Functionalization*, **2019**, 231-249, edited by A. J. L. Pombeiro, published by Wiley, on 2019/3/4 in Mannheim, Germany.

*Conference papers* F. Tavani\*, A. Martini, F. Sessa, G. Capocasa, G. Olivo, O. Lanzalunga, S. Di Stefano, P. D'Angelo\*, *Springer Proceedings in Physics*, **2021**, *220*, 141-154.

*Reviewing activity* *Nat. Commun., Adv. Synth. & Cat., Tetrahedron, Synlett, SynOpen, Eur J.O.C., Polyhedron, As. J. Org. Chem., Inorg. Chim. Acta*

## PARTICIPATION IN CONFERENCES

- Invited talks*
1. **“La Sapienza” University of Rome, Department of Chemistry (Italy)**, 11/10/2021  
“Strategie per la funzionalizzazione selettiva di legami C(sp<sup>3</sup>)-H”
  2. **Convegno Giovani Ricercatori 2019 (Italy)**, 25-26/06/2019  
“Supramolecular control of selectivity in Mn catalysed C<sub>sp</sub><sup>3</sup>-H Hydroxylation”
  3. **CNR Institute of Montelibretti (Italy)**, 29/10/2015  
“Aliphatic C-H Oxidation catalyzed by nonheme imine-based iron complexes”

- Oral Presentations*
1. **Suprachemdays 2021**, 13-15/10/2021, Bologna, Italy
  2. **XXVII Congresso Nazionale S.C.I. 2021**, 14-23/09/2021, Milano, Italy
  3. **ISOC-MMM 2019 (International School on Organometallic Chemistry Marcial Moreno Mañas)**, 12-14/06/2019, Castellò de la Plana, Spain

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4. **H<sub>2</sub>TrapCatBioO<sub>2</sub> Meeting**, 25-26/10/2018, Castellò de la Plana, Spain
5. **2<sup>nd</sup> TransPyrenean Meeting**, 18-19/10/2018, Tarragona, Spain
6. **CDCO 2018**, 9-13/09/2018, Milano, Italy
7. **ICCC 2018 (International Conference on Coordination Chemistry)**, Sendai, Japan
8. **International Conference on Hydrogen Atom Transfer**, 02-06/07/2017 Monteporzio Catone, Italy
9. **XXV Congresso Nazionale S.C.I. 2014**, 07-12/09/2014, Rende, Italy
10. **International Conference on Hydrogen Atom Transfer**, 22-26/06/2014 Monteporzio Catone, Italy
11. **VI Convegno Giovani Chimici**, 17-18/06/2014, Roma, Italy
12. **XI PhD-day CIRCC**, 27/03/2014, Bari, Italy
13. **X PhD-day CIRCC**, 23/04/2012, Pisa, Italy

## *Poster presentations*

1. **International Symposium on Macrocyclic and Supramolecular Chemistry (ISMSC) 2019**, 02-06/06/2019, Lecce, Italy
2. **Girona seminar**, 03-06/04/2018, Girona, Spain
3. **XXXIV Congress Organometallic Chemistry Group (GEQO)**, 07-09/09/2016, Girona (Spain)
4. **Girona Seminars**, 17-20/04/2015, Girona (Spain)
5. **XXI EuCheMS International Conference on Organometallic Chemistry 2015**, 05-09/07/2015, Bratislava (Slovakia)
6. **Organometallic Chemistry directed towards Organic Synthesis (OMCOS 18)**, 28/06-02/07/2015, Sitges (Spain)
7. **Suprachem 2013**, 24-27/09/2013, Padova (Italy)
8. **International School of Organometallic Chemistry**, 29/08-03/09/2013, Camerino (Italy)
9. **European Symposium of Organic Chemistry**, 07-12/07/2013, Marseille (France)
10. **V Convegno Giovani Chimici**, 12-13/06/2012, Roma (Italy)

## GRANTS

- |                    |      |   |
|--------------------|------|---|
| <i>PI</i>          | 2021 | • <b>“Progetto Avvio alla Ricerca”</b> (Controllo Supramolecolare sulla C-H Funzionalizzazione Fotocatalitica) of 2.400€ (research grant designed for postdocs and PhD students) awarded by “La Sapienza” university. |
|                    | 2020 | • <b>“Reaxys-SCI Small Research Grant”</b> (S-ReCHOx) of 5.000€ awarded by Elsevier and Società Chimica Italiana after national selection (3 grants awarded over 93 participants).                                    |
|                    | 2014 | • <b>“Progetto Avvio alla Ricerca”</b> (C.I.A.O.) of 2.000 euro (research grant designed for postdocs and PhD students), on the activity on imine-based iron complexes as oxidation catalysts.                        |
| <i>Participant</i> | 2021 | • <b>“Grande Progetto di Ateneo”</b> (PI: O. Lanzalunga, 50.000€) awarded by “La Sapienza” university   |
|                    | 2018 | •   |
|                    | 2018 | • <b>“Catálisis de oxidación bioinspirada mediante diseño racional de catalizadores”</b> (PI: Dr. Miquel Costas; PGC2018-101737-B-100) of 242.000 € da MICINN, Spain.   |
|                    | 2016 | • <b>“HIGHVALCAT (CTQ2015-70795-P)”</b> of 157.000 euros from MINECO, Spain. PI: Dr. Miquel Costas  |
|                    | 2015 | • <b>“Grande Progetto di Ateneo”</b> (PI: prof. Paola D’Angelo) of 35.000 euros, from “Sapienza” University   |

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2014-2021	4 accepted “ <b>Synchrotron Proposal</b> ” to ESRF (Grenoble, France).
<b>AWARDS</b>	
2020	• <b>MIUR Italian University Professorship Habilitation</b> (“ <i>Il Fascia</i> ”). <i>Professorship habilitation</i>
2017	• “ <b>Juan de La Cierva Post-Doc Fellowship</b> ” (2 years Post-Doc contract, ranked 11 <sup>th</sup> over 93 applicants) <i>awarded by MINECO ministry in Spain</i> (FJCI-2016-30243)
2016	• “ <b>Post-Doc Fellowship</b> ” (Borsa di perfezionamento all’estero, 1 year Post-Doc contract) <i>awarded by “La Sapienza” university</i>
2012	• “ <b>PhD Fellowship</b> ” (3 years contract, ranked 1st over 42 applicants) <i>awarded by “La Sapienza” university</i>
<i>Conference awards</i>	• <b>Best Oral presentation</b> at Suprachemdays ( <b>2021</b> ) • <b>Best Oral presentation</b> at ISOC-MMM ( <b>2019</b> ) • <b>Best Oral presentation</b> at VI Convegno Giovani ( <b>2014</b> )
<i>Travel awards</i>	<b>Boehringer Ingelheim Stiftung award</b> for ISMSC conference ( <b>2018</b> ) <b>RSEQ-JIQ Travel fellowship</b> for ICCS conference ( <b>2018</b> ) <b>COST Travel fellowship</b> for ISOC conference ( <b>2013</b> )
<b>TEACHING</b>	
<i>Lecturer</i>	• <b>Chimica Organica III</b> (6CFU + 6CFu lab, to Chemistry students, 2022/2023, La Sapienza university of Rome) • <b>Homogeneous Catalysis</b> (6CFU, to PhD students in Chemistry, 2021/2022, La Sapienza university of Rome) • <b>General Chemistry</b> (3 CFU, to Biology students, 2019-2020, Universitat de Girona)
<i>Supervisor</i>	• <b>PhD student</b> (D. Possenti, 2022-2025) <i>La Sapienza”, University of Rome, Italy</i> • <b>Master student</b> (D. Possenti, 03/2022, L. Napoli, 2023) <i>La Sapienza”, University of Rome, Italy</i> • <b>Co-supervision of a PhD student</b> (A. Fagnano, 2021-2024, with Prof. S. Di Stefano “ <i>La Sapienza”, University of Rome, Italy</i> • <b>Co-supervision of Master students’ theses</b> (S. Dell’Uomo 01/2022, R. Paolon 12/2022) and Bachelor ones (L. Monari, 12/2021) with Prof. S. Di Stefano “ <i>La Sapienza”, University of Rome, Italy</i>
<i>Committee member</i>	• <b>PhD thesis</b> of Marco Galeotti (advisor: Prof. M. Bietti, 13/04/2022) “ <i>Tor Vergata” University of Rome, Italy</i> • <b>Master and Bachelor in Chemistry</b> (12/2021, 01,03,05/2022), “ <i>La Sapienza”, University of Rome, Italy</i> • <b>Master in Chemistry</b> (07/2019, 09/2020) <i>Universitat de Girona, Girona, Spain</i>
<b>INSTITUTIONAL RESPONSIBILITIES</b>	• Member of the <b>PhD Academic Board</b> in Chemical Sciences, 2021-now, “ <i>La Sapienza”, University of Rome, Italy</i> • Member of the <b>Research grant evaluation panel</b> , 2022-now, “ <i>La Sapienza”, University of Rome, Italy</i>

# GIORGIO OLIVO

## **CONFERENCE ORGANISATION**

Member of the Scientific Committee of SYNC 2022 *Rome, Italy*  
Chairman (Girona Seminars 2018) *Girona, Spain*

## *Languages*

ITALIAN *mother tongue*  
ENGLISH *proficiency (C1)*  
SPANISH *proficiency (C1)*  
CATALAN *basic knowledge (B1)*