

Allegato B

GIORGIO CAPOCASA
Curriculum Vitae

Roma
31st October 2024

Part I – General Information

Full Name	Giorgio Capocasa
Spoken Languages	Italian (native), English (advanced), Spanish (intermediate), Catalan (basic)
ORCID	https://orcid.org/0000-0002-9725-2727

Part II – Education

Type	Year	Institution	Notes (Degree, Experience,...)
High school diploma	2012	Liceo Scientifico Statale “Evangelista Torricelli”, Rome (Italy)	High school diploma (scientific curriculum) with final note of 100/100
University graduation	2015	“La Sapienza” University	Bachelor’s degree in Chemistry (<i>Laurea Triennale</i>). Full Marks with Merit. (110/110 e Lode). Thesis title: <i>Sintesi parziale di un legante multitempico</i> . Supervisor: Prof. Stefano Di Stefano.
Post-graduate studies	2017	“La Sapienza” University	Master’s degree in Chemistry (<i>Laurea Magistrale</i>). Full Marks with Merit. (110/110 e Lode) Thesis title: <i>Un complesso imminico del ferro, generato in situ da precursori commerciali, catalizza l’ossidazione di legami C-H aromatici</i> Supervisor: Prof. Stefano Di Stefano.
PhD	2021	“La Sapienza” University	PhD in Chemical Sciences (<i>Scienze Chimiche</i>). Score: Excellent (<i>Ottimo</i>) Thesis title: <i>A supramolecular approach to hydrocarbon functionalization</i> Supervisor: Prof. Stefano Di Stefano.
Licensure	2020	“Ordine dei Chimici e dei Fisici del Lazio”	II session -year 2020 (<i>Esame di Stato</i>)

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
2018	2018	Liceo Scientifico Statale “Evangelista Torricelli”, Rome (Italy)	Teacher. Courses of Physics and Chemistry (reparation classes)
2018	2020	“La Sapienza”, Chemistry Department, Rome (Italy)	Teacher’s Assistant. Tutoring for the courses of General and Inorganic Chemistry (<i>Chimica Generale e Inorganica</i>) and Analytical Chemistry (<i>Chimica Analitica I</i>) for the undergraduate students enrolled in the Chemistry Course (<i>CdL Chimica Triennale</i>).
2018	2020	“La Sapienza”, Chemistry Department, Rome (Italy)	Teacher’s Assistant. Held three seminars (one per year) on C-H bond functionalization and molecular machines as part of the course of Physical Organic Chemistry (<i>Chimica Organica IV</i>) for the master students enrolled in the Chemistry Course (<i>CdL Chimica</i>) Teacher: Prof. Stefano Di Stefano
2021	2022	“Universitat de Girona”, Costas Group, Girona (Spain)	Post-doc researcher (PDI) “ERC-AdcG 883922, <i>Enantioselective C-H Oxidation Guided by Rational Catalyst Design</i> ”
2023	2023	“La Sapienza”, Chemistry Department, Rome (Italy)	Teacher’s Assistant. Held a seminar on dissipative systems as part of the course of Physical Organic Chemistry (<i>Chimica Organica IV</i>) for the master students enrolled in the Chemistry Course (<i>CdL Chimica</i>) Teacher: Prof. Stefano Di Stefano
2023	2024	“La Sapienza”, Chemistry Department, Rome (Italy)	Teacher. Course of Supramolecular Chemistry for PhD Students
2023	2024	“La Sapienza”, Chemistry Department, Di Stefano Group, Rome (Italy)	Post-doc researcher (Assegnista di Ricerca). Research project: “ <i>Modulazione nel tempo del potenziale di coppie redox nel mediante l’impiego di fuel chimici decarbossilativi</i> ”

2024	2025	“La Sapienza”, Chemistry Department, Di Stefano Group, Rome (Italy)	Post-doc researcher (Assegnista di Ricerca). Research Project: “Chemically-driven Autonomous molecular Machines and Other Dissipative Systems”
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IIIB – Other Appointments

Start	End	Institution	Position
April 2019	July 2019	“Universitat de Girona”, Costas Group, Girona (Spain)	Visiting Researcher at Costas Group (while a PhD student).
2019	2019	ESRF – European Synchrotron Research Facility, Grenoble (France)	Visiting Researcher (14 shifts).
June 2021	June 2021	ESRF – European Synchrotron Research Facility, Grenoble (France)	Visiting Researcher (14 shifts).
2022	2022	“Universitat de Girona”, Costas Group, Girona (Spain)	Member of the graduation examining board
2023	2024	“La Sapienza”, Chemistry Department, Rome (Italy)	Subject expert (<i>Culture della Materia</i>) and member of the examining board for the courses of <i>Chimica Organica II</i> , <i>Chimica Organica III</i> (undergraduate courses) as well as <i>Chimica Organica IV</i> and <i>Chimica Organica V</i> (master’s courses)

IIIC – Scientific communication (*Terza Missione*)

Year	Institution	Position
2023	“La Sapienza”, Chemistry Department, Rome (Italy)	Speaker at Christmas Seminars organized by La Sapienza with a talk on Molecular Machines for high-school students (“ <i>Seminari di Natale 2023</i> ”)
2024	“La Sapienza”, Chemistry Department, Rome (Italy)	Scientific Communicator (during 2024 European Researchers' Night)

Part IV – Teaching experience

Year	Institution	Lecture/Course
2018	Liceo Scientifico Statale “Evangelista Torricelli”, Rome (Italy)	Reparation Classes (summer classes) of Physics and Chemistry
2018	“La Sapienza”, Chemistry Department, Rome (Italy)	Teacher’s Assistant for the course of “Chimica Generale ed Inorganica” (<i>Tutoraggi</i>)
2020	“La Sapienza”, Chemistry Department, Rome (Italy)	Teacher’s Assistant for the course of “Analytical Chemistry” (<i>Tutoraggi</i>)
2018	“La Sapienza”, Chemistry Department, Rome (Italy)	Speaker at Seminar on C-H bond functionalization as part of the “Chimica Organica IV” course (Prof. Di Stefano)
2019	“La Sapienza”, Chemistry Department, Rome (Italy)	Speaker at Seminar on molecular machines as part of the “Chimica Organica IV” course (Prof. Di Stefano)
2020	“La Sapienza”, Chemistry Department, Rome (Italy)	Speaker at Seminar on C-H bond oxidation with supramolecular systems as part of the “Chimica Organica IV” course (Prof. Di Stefano)
2023	“La Sapienza”, Chemistry Department, Rome (Italy)	Speaker at Seminar on dissipative systems as part of the “Chimica Organica IV” course (Prof. Di Stefano)
2023-2024	“La Sapienza”, Chemistry Department, Rome (Italy)	Teacher’s Assistant for the course of “Chimica Organica II” (<i>Esercitazioni in Aula</i>)
2023	“La Sapienza”, Chemistry Department, Rome (Italy)	Teacher of Supramolecular Chemistry for (PhD Students)
2024	“La Sapienza”, Chemistry Department, Rome (Italy)	Teacher of Supramolecular Chemistry for (PhD Students)

Part V - Society memberships, Awards and Honors

Year	Title
2017	After the submission of a written paper, the applicant was selected for a week of seminars sponsored by Roche with 100 international university students of Science and Liberal Arts.
2017	Winner of PhD fellowship (ID 11089) at “Sapienza” University of Rome. PI: Prof. Stefano Di Stefano, 63.037 EUR. (2017-2021).
2019	Member of SCI – Società Chimica Italiana (Italian Chemical Society)
2023	Member of SCI – Società Chimica Italiana (Italian Chemical Society)
2019-2020	Associate of “Istituto CNR per i Sistemi Biologici” (ISB-CNR).
2024	Associate of “Istituto CNR per i Sistemi Biologici” (ISB-CNR).

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value
2018	Sviluppo di chemical fuel per il movimento avanti-indietro di macchine molecolari che sfruttano cicli Cu(II)-Cu(I)-Cu(II)	Avvio alla Ricerca Tipo I AR11816427E041CD (Sapienza); PI	-
2019	Site-selective remote late-functionalization of complex biomolecules	Avvio alla Ricerca Tipo I (Sapienza) AR11916B51C4C8F7; PI	-
2020	Macchine Molecolari Basate sulla Struttura Calix[4]arenica	Progetti Medi RM12017293222D84; I (proponent: Prof. Stefano Di Stefano , Sapienza)	-
2022	Enantioselective C-H Oxidation Guided by Rational Catalyst	ERC-AdcG 883922; I (proponent: Prof. Miquel Costas , Universitat de Girona)	-
2023	Celle elettrochimiche dissipative per la generazione di segnali elettrici transienti	Avvio alla Ricerca Tipo 2 AR223188B043A45D (Sapienza); PI	-
2023	MOF-MTM: accelerating the development of Metal-Organic Frameworks for the direct and sustainable Methane To Methanol conversion	Progetti Grandi RG123188B163C1B6 (proponent: Prof. Paola D'Angelo , Sapienza); I	-

Part VII – Research Activities

Keywords	Brief Description
Organic Chemistry	Enantioselective C-H bond oxidation with first-row transition metal complexes. This research line focuses on the development of regio-, chemo-, and enantioselective C-H bond oxidation protocols employing Fe and Mn complexes as the catalysts and environmentally benign species such as hydrogen peroxide as the terminal oxidants. Rational ligand design allows for tuning the reaction's regio-, chemo-, and enantioselectivity. Crucially, oxidized products (alcohols, ketones, or lactones) can be further functionalized with traditional organic synthesis reactions.
Catalysis	
C-H bond oxidation	
Enantioselective catalysis	
Supramolecular Chemistry	C-H bond oxidation with supramolecular complexes of first-row transition metal complexes. This research line focuses on the study of supramolecular catalysts for C-H bond oxidation. Fe and Mn complexes active in C-H bond oxidation are functionalized with supramolecular receptors to bind the substrate and display enhanced activity, change of mechanism, enzyme-like kinetics, and improved selectivity. Quantitative study of the reaction through tools such as reaction kinetics, binding studies, and effective molarity measurements allows for the rational design of new catalysts.
Catalysis	
C-H bond oxidation	
Physical Organic Chemistry	
Dissipative systems	Organic synthesis and temporal control of chemical systems by means of Activated Carboxylic Acids. This research line studies the applications of Activated Carboxylic Acids (ACAs) for the temporal control of chemical systems such as Dynamic Chemical Libraries of compounds that interchange through the breakage and formation of covalent or supramolecular bonds. Furthermore, ACAs are researched for the temporal control of electrochemical properties (voltage of a cell and conductivity of a solution), as transient catalysts as well as reagents to enable the synthesis of organic molecules via cascade reactions.
Organic Chemistry	
Supramolecular Chemistry	
Organic synthesis	

Part VIII – Oral and poster contributions to conferences

1. Poster Presentation at **iCHAT (2nd International Conference on Hydrogen Atom Transfer)** – Monteporzio Catone (Italy) (July 2017) entitled “*Direct hydroxylation of benzene and aromatics with H₂O₂ catalyzed by a self-assembled iron complex: Evidence for a metal-based mechanism*”. **(International conference)**
2. Oral Presentation at CIRCC (**Consorzio Interuniversitario per le Reattività Chimiche e la Catalisi**) – Trieste (Italy) (2018)
3. Oral Presentation at **Chimica supramolecolare: Giornata dei Dottorandi 2018** organised by CNR – Rome (Italy) (January 2018) entitled “*Direct hydroxylation of benzene and aromatics with H₂O₂ catalyzed by a self-assembled iron complex: evidence for a metal-based mechanism*”, G. Capocasa
4. Poster Presentation at **ShareScience 2019** - Rome (Italy) (October 2019) entitled “*Supramolecular systems*”, G. Capocasa, S. Di Stefano, O. Lanzalunga, C. Biagini
5. Oral Presentation at **SYNC 2022** entitled “*Desymmetrizing carboxylic acids via directed primary and secondary C-H bond oxidation*”, G. Capocasa, Arnau Call, A. Palone, E. Aparicio, M. Bietti, M. Costas. – Rome (Italy) (June 2022). **(International conference)**
6. Oral Presentation at **iCHAT (3rd International Conference on Hydrogen Atom Transfer)** – Monteporzio Catone (Italy) (July 2022) entitled “*More than the sum of its parts. Combining UV-Vis and EDXAS to investigate reaction mechanisms*”, G. Capocasa, F. Tavani, A. Martini, O. Lanzalunga, S. Di Stefano, P. D’Angelo. **(international conference)**

7. Poster Presentation at **ADHOC 2022** – Girona (Spain) (August 2022) entitled “*Enantioselective Primary And Secondary C-H Bond Oxidation Enabled by the Directing Group Approach*”, G. Capocasa, A. Call, A. Palone, E. Aparicio, M. Bietti, M. Costas. **(international conference)**
8. Oral Presentation at **XLI CDCO SCI – Convegno Nazionale della Divisione di Chimica Organica della Società Chimica Italiana** – Rome (Italy) (September 2023) entitled “*A simple device for electrochemical signal generation*”, G. Capocasa, F. Fratelloreto, S. Correale Cavallari, M. Valentini O. Lanzalunga, S. Di Stefano
9. Flash oral presentation at **Systems Chemistry in Italy** – Rome (Italy) (September 2023) “*Generation of Voltage Signals by Means of an Activated Carboxylic Acid*”, G. Capocasa, F. Fratelloreto, S. Correale Cavallari, M. Valentini O. Lanzalunga, S. Di Stefano
10. Poster Presentation at **ArtMoMa final conference** – Groningen (Netherlands) (January 2024) entitled “*A Straightforward Method for Generating Voltage Signals Employing Activated Carboxylic Acids*”, G. Capocasa, F. Fratelloreto, S. Correale Cavallari, M. Valentini O. Lanzalunga, S. Di Stefano. **(international conference)**
11. Oral presentation at **MACH-5 2024** – Bertinoro (Italy) (September 2024) as an **Invited Speaker** entitled “*Beyond Acid-Base Reactions: Interfacing Activated Carboxylic Acids with Electrical Circuits*”, G. Capocasa, F. Fratelloreto, S. Correale Cavallari, A. D’Arrigo, M. Valentini, O. Lanzalunga, S. Di Stefano. **(invited speaker, international conference)**

Part IX – Summary of Scientific Achievements

All the information reported below is updated as of 18th October 2024.

Product type	Number	Data Base	Start	End
Papers [international]	20	Scopus	2017	2024

Total Impact factor	175.29 (Clarivate’s Journal Citation Report, accessible from WOS. Sum of the IFs for each journal where a paper was published. All IFs are referred to the year of publication. For papers published in the current year, the most recent IF was used)
Average Impact factor	8.76 (calculated as Total Impact factor/Products, that is: 175.29/20)
Total Citations	404 (Scopus)
Average Citations per Product	20.2 (calculated as Citations/Products, that is: 404/20)
Hirsch (H) index	10 (Highest amongst Scopus and WOS)
Hirsch (H) index over the last 10 years	10 (Highest amongst Scopus and WOS)
Normalized H-index	1.42 (calculated by dividing the H-index by the number of years elapsed since the publication of the first paper. Hence, 20/7)

Part X– Selected Publications

Here is reported a list of the 12 publications selected for the evaluation. The asterisk indicates the corresponding author, while the candidate's name is underlined. Where available, the IF of the journal for the year of publication is reported. For the most recent papers, the reported IF is that of the previous year. Citation data is taken from Scopus while the IFs are taken from Clarivate's Journal Citation Report (accessible from WOS).

Whenever the candidate is a corresponding author or a (co-)first author, this is made explicit by an appropriate tag appended at the end of the citation.

1. Olivo, G.(*), Capocasa, G., Lanzalunga, O., Di Stefano, S.(*), Costas, M.(*)
Enzyme-like substrate-selectivity in C-H oxidation enabled by recognition
Chemical Communications (2019) 55 (7), pp. 917-920. Cited 40 times.
DOI: 10.1039/c8cc09328h **IF = 5.996**
2. Capocasa, G., Sessa, F., Tavani, F., Monte, M., Olivo, G., Pascarelli, S., Lanzalunga, O.(*), Di Stefano, S.(*), D'Angelo, P.(*)
Coupled X-ray Absorption/UV-vis Monitoring of Fast Oxidation Reactions Involving a Nonheme Iron-Oxo Complex
Journal of the American Chemical Society (2019) 141 (6), pp. 2299-2304. Cited 28 times.
DOI: 10.1021/jacs.8b08687 **(first author) IF = 14.612**
3. Biagini, C., Capocasa, G., Cataldi, V., Del Giudice, D., Mandolini, L., Di Stefano, S.(*)
The Hydrolysis of the Anhydride of 2-Cyano-2-phenylpropanoic Acid Triggers the Repeated Back and Forth Motions of an Acid–Base Operated Molecular Switch
Chemistry - A European Journal (2019) 25 (66), pp. 15205-15211. Cited 22 times.
DOI: 10.1002/chem.201904048 **(first author) IF = 4.857**
4. Biagini, C., Capocasa, G., Del Giudice, D., Cataldi, V., Mandolini, L., Di Stefano, S.(*)
Controlling the liberation rate of the in situ release of a chemical fuel for the operationally autonomous motions of molecular machines
Organic and Biomolecular Chemistry (2020) 18 (20), pp. 3867-3873. Cited 11 times.
DOI: 10.1039/d0ob00669f **(first author) IF = 3.876**
5. Capocasa, G., Di Berto Mancini, M., Fratelloreto, F., Lanzalunga, O.(*), Olivo, G., Di Stefano, S.(*)
Easy Synthesis of a Self-Assembled Imine-Based Iron(II) Complex Endowed with Crown-Ether Receptors
European Journal of Organic Chemistry (2020) 2020 (23), pp. 3390-3397. Cited 6 times.
DOI: 10.1002/ejoc.202000388 **(first author) IF = 3.021**
6. Olivo, G.(*), Capocasa, G., Ticconi, B., Lanzalunga, O., Di Stefano, S.(*), Costas, M.(*)
Predictable Selectivity in Remote C–H Oxidation of Steroids: Analysis of Substrate Binding Mode
Angewandte Chemie - International Edition (2020) 59 (31), pp. 12703-12708. Cited 39 times.
DOI: 10.1002/anie.202003078 **(first author) IF = 15.336**
7. Olivo, G.(*), Capocasa, G., Del Giudice, D., Lanzalunga, O., Di Stefano, S.(*)
New horizons for catalysis disclosed by supramolecular chemistry
Chemical Society Reviews (2021) 50 (13), pp. 7681-7724. Cited 123 times.
DOI: 10.1039/d1cs00175b **(review) IF = 60.615**

8. Ticconi, B., Capocasa, G., Cerrato, A., Di Stefano, S., Lapi, A., Marincioni, B., Olivo, G., Lanzalunga, O.(*)
Insight into the chemoselective aromatic: Vs. side-chain hydroxylation of alkylaromatics with H₂O₂ catalyzed by a non-heme imine-based iron complex
Catalysis Science and Technology (2021) 11 (1), pp. 171-178. Cited 6 times.
DOI: 10.1039/d0cy01868f **IF = 6.177**
9. Fratelloreto, F., Capocasa, G., Olivo, G., Abdel Hady, K., Sappino, C., Di Berto Mancini, M., Levi Mortera, S., Lanzalunga, O., Di Stefano, S.(*)
Increasing the steric hindrance around the catalytic core of a self-assembled imine-based non-heme iron catalyst for C-H oxidation
RSC Advances (2021) 11 (1), pp. 537-542. Cited 3 times.
DOI: 10.1039/d0ra09677f **IF = 4.036**
10. Call, A.(*), Capocasa, G., Palone, A., Vicens, L., Aparicio, E., Choukairi Afailal, N., Siakavaras, N., López Saló, M.E., Bietti,(*) M., Costas, M.(*)
Highly Enantioselective Catalytic Lactonization at Nonactivated Primary and Secondary γ -C-H Bonds
Journal of the American Chemical Society (2023) 145 (32), pp. 18094-18103. Cited 10 times.
DOI: 10.1021/jacs.3c06231 **IF = 14.4**
11. Capocasa, G., Fratelloreto, F., Correale Cavallari, S., Valentini, M., Lanzalunga, O.(*), Di Stefano, S.(*)
Signal Transduction Allows Temporal Control of the Potential of a Concentration Cell Driven by the Decarboxylation of an Activated Carboxylic Acid
Chemistry - A European Journal (2024) 30 (13), art. no. e202303897, . Cited 2 times.
DOI: 10.1002/chem.202303897 **(first author; corresponding author) IF = 3.9**
12. Capocasa, G., Fratelloreto, F., Valentini, M., Di Stefano, S.(*)
Molecular entanglement can strongly increase basicity
(2024) 7 (1), art. no. 116, . Cited 3 times.
Communications Chemistry DOI: 10.1038/s42004-024-01205-3 **(first author, review) IF = 5.9**

Part XI – Complete list of publications taken from Scopus

Here is reported the complete list of publications. All data is taken from Scopus. The candidate's name is underlined. Whenever the candidate is a corresponding author or a (co-)first author this is made explicit by an appropriate tag appended at the end of the citation.

1. Capocasa, G., Olivo, G., Barbieri, A., Lanzalunga, O.(*), Di Stefano, S.(*)
Direct hydroxylation of benzene and aromatics with H₂O₂ catalyzed by a self-assembled iron complex: Evidence for a metal-based mechanism
Catalysis Science and Technology (2017) 7 (23), pp. 5677-5686. Cited 34 times.
DOI: 10.1039/c7cy01895a (**first author**)
2. Olivo, G.(*), Capocasa, G., Lanzalunga, O., Di Stefano, S.(*), Costas, M.(*)
Enzyme-like substrate-selectivity in C-H oxidation enabled by recognition
Chemical Communications (2019) 55 (7), pp. 917-920. Cited 40 times.
DOI: 10.1039/c8cc09328h
3. Capocasa, G., Sessa, F., Tavani, F., Monte, M., Olivo, G., Pascarelli, S., Lanzalunga, O.(*), Di Stefano, S.(*), D'Angelo, P(*)
Coupled X-ray Absorption/UV-vis Monitoring of Fast Oxidation Reactions Involving a Nonheme Iron-Oxo Complex
Journal of the American Chemical Society (2019) 141 (6), pp. 2299-2304. Cited 28 times.
DOI: 10.1021/jacs.8b08687 (**first author**)
4. Biagini, C., Capocasa, G., Cataldi, V., Del Giudice, D., Mandolini, L., Di Stefano, S.(*)
The Hydrolysis of the Anhydride of 2-Cyano-2-phenylpropanoic Acid Triggers the Repeated Back and Forth Motions of an Acid-Base Operated Molecular Switch
Chemistry - A European Journal (2019) 25 (66), pp. 15205-15211. Cited 22 times.
DOI: 10.1002/chem.201904048 (**first author**)
5. Biagini, C., Capocasa, G., Del Giudice, D., Cataldi, V., Mandolini, L., Di Stefano, S.(*)
Controlling the liberation rate of their in situ release of a chemical fuel for the operationally autonomous motions of molecular machines
Organic and Biomolecular Chemistry (2020) 18 (20), pp. 3867-3873. Cited 11 times.
DOI: 10.1039/d0ob00669f (**first author**)
6. Capocasa, G., Di Berto Mancini, M., Fratello, F., Lanzalunga, O.(*), Olivo, G., Di Stefano, S.(*)
Easy Synthesis of a Self-Assembled Imine-Based Iron(II) Complex Endowed with Crown-Ether Receptors
European Journal of Organic Chemistry (2020) 2020 (23), pp. 3390-3397. Cited 6 times.
DOI: 10.1002/ejoc.202000388 (**first author**)
7. Di Stefano, S.(*), Capocasa, G., Mandolini, L.(*)
Supramolecular Catalysts Featuring Crown Ethers as Recognition Units
European Journal of Organic Chemistry (2020) 2020 (23), pp. 3340-3350. Cited 28 times.
DOI: 10.1002/ejoc.201901914 (**review**)
8. Tavani, F.(*), Martini, A., Capocasa, G., Di Stefano, S., Lanzalunga, O., D'Angelo, P(*)
Direct Mechanistic Evidence for a Nonheme Complex Reaction through a Multivariate XAS Analysis
Inorganic Chemistry (2020) 59 (14), pp. 9979-9989. Cited 13 times.
DOI: 10.1021/acs.inorgchem.0c01132

9. Olivo, G.(*), Capocasa, G., Ticconi, B., Lanzalunga, O., Di Stefano, S.(*), Costas, M.(*)
Predictable Selectivity in Remote C–H Oxidation of Steroids: Analysis of Substrate Binding Mode
Angewandte Chemie - International Edition (2020) 59 (31), pp. 12703-12708. Cited 39 times.
DOI: 10.1002/anie.202003078 **(first author)**
10. Tavani, F., Martini, A., Sessa, F., Capocasa, G., Olivo, G., Lanzalunga, O., Di Stefano, S.,
D'Angelo, P.
Insights into the Structure of Reaction Intermediates Through Coupled X-ray Absorption/UV-Vis
Spectroscopy *Springer Proceedings in Physics*
(2021) 220, pp. 141-154. Cited 4 times.
DOI: 10.1007/978-3-030-72005-6_11
11. Ticconi, B., Capocasa, G., Cerrato, A., Di Stefano, S., Lapi, A., Marincioni, B., Olivo, G.,
Lanzalunga, O.(*)
Insight into the chemoselective aromatic: Vs. side-chain hydroxylation of alkylaromatics with
H₂O₂ catalyzed by a non-heme imine-based iron complex
Catalysis Science and Technology (2021) 11 (1), pp. 171-178. Cited 6 times.
DOI: 10.1039/d0cy01868f
12. Tavani, F.(*), Capocasa, G., Martini, A., Sessa, F., Di Stefano, S., Lanzalunga, O., D'Angelo, P.(*)
Direct structural and mechanistic insights into fast bimolecular chemical reactions in solution
through a coupled XAS/UV-Vis multivariate statistical analysis
Dalton Transactions (2021) 50 (1), pp. 131-142. Cited 10 times.
DOI: 10.1039/d0dt03083j
13. Tavani, F.(*), Capocasa, G., Martini, A., Sessa, F., Di Stefano, S., Lanzalunga, O., D'Angelo, P.(*)
Activation of C-H bonds by a nonheme iron(IV)-oxo complex: Mechanistic evidence through a
coupled EDXAS/UV-Vis multivariate analysis
Physical Chemistry Chemical Physics (2021) 23 (2), pp. 1188-1196. Cited 9 times.
DOI: 10.1039/d0cp04304d
14. Olivo, G.(*), Capocasa, G., Del Giudice, D., Lanzalunga, O., Di Stefano, S.(*)
New horizons for catalysis disclosed by supramolecular chemistry
Chemical Society Reviews (2021) 50 (13), pp. 7681-7724. Cited 123 times.
DOI: 10.1039/d1cs00175b **(review)**
15. Fratelloreto, F., Capocasa, G., Olivo, G., Abdel Hady, K., Sappino, C., Di Berto Mancini, M., Levi
Mortera, S., Lanzalunga, O., Di Stefano, S.(*)
Increasing the steric hindrance around the catalytic core of a self-assembled imine-based non-heme
iron catalyst for C-H oxidation
RSC Advances (2021) 11 (1), pp. 537-542. Cited 3 times.
DOI: 10.1039/d0ra09677f
16. Fratelloreto, F., Tavani, F., Di Berto Mancini, M., Del Giudice, D., Capocasa, G., Kieffer, I.,
Lanzalunga, O.(*), Di Stefano, S.(*), D'Angelo, P.(*)
Following a Silent Metal Ion: A Combined X-ray Absorption and Nuclear Magnetic Resonance
Spectroscopic Study of the Zn²⁺+Cation Dissipative Translocation between Two Different Ligands
Journal of Physical Chemistry Letters (2022) 13 (24), pp. 5522-5529. Cited 9 times.
DOI: 10.1021/acs.jpclett.2c01468

17. Call, A.(*), Capocasa, G., Palone, A., Vicens, L., Aparicio, E., Choukairi Afailal, N., Siakavaras, N., López Saló, M.E., Bietti,(*) M., Costas, M.(*)
Highly Enantioselective Catalytic Lactonization at Nonactivated Primary and Secondary γ -C-H Bonds
Journal of the American Chemical Society (2023) 145 (32), pp. 18094-18103. Cited 10 times.
DOI: 10.1021/jacs.3c06231

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Part XII – Miscellaneous: schools, mentoring, other fundings and other activities

Year	Title
2015	Summer WOOFing at “Imkerei in Worin” – Worin (Germany). Tasks: Beekeeping, general maintenance of the structures.
2017-2024	Mentoring of master’s students (10 students from the Di Stefano Group). Mentoring of several undergraduate students (Di Stefano and Costas Group). Informal mentoring of several PhD students in Italian, English and Spanish (Di Stefano and Costas Groups).
2019	Attendance of the VIII Ciamician Photochemistry School held in Bologna.
2020	Earning of 24 CFU (university credits) in the pedagogy area for teaching in Italian high schools.
2022	Declared eligible for a Juan de la Cierva post-doctoral fellowship (renounced).
2023	Received 2000 euros from Regione Lazio as part of the “Contributi premiali per i ricercatori e assegnisti di ricerca per rafforzarne la condizione professionale e potenziare il sistema della ricerca del Lazio” program.
2024	Passed an exam and declared eligible for a technical personnel position at “La Sapienza” - Roma (area 1/D/CHIMICO DIP. CHIMICA; “disposizione n. 2160/2024 Prot. n. 86225 del 10.05.2024; Classif. VII/1”).
2024	Attendance of a 3-day course on advanced NMR techniques held by a Bruker application specialist.