

GIORGIO OLIVO
Curriculum Vitae
(ai fini della pubblicazione)

Place ROME

Date 08/04/2021

Part I – General Information

Full Name	GIORGIO OLIVO
Spoken Languages	ITALIAN, ENGLISH, SPANISH

Part II – Education

Type	Year	Institution	Notes (Degree, Experience,...)
PhD	2015	Università “La Sapienza” di Roma	PhD in Chemical Sciences <i>Thesis title:</i> Nonheme iron complexes as catalysts for non-activated C-H oxidation Ranked 1 st at the call (2012)
Licensure	2012	“Ordine dei Chimici”	Qualification for Chemist Profession
University graduation	2012	Università “La Sapienza” di Roma, Italy	Master degree in Chemistry 110/110 e lode (average mark: 29.6)
University graduation	2010	Università “La Sapienza” di Roma	Bachelor degree in Chemistry 110/110 e lode (average mark 28.4)
High School Diploma	2007	Liceo classico “Vitruvio Pollione” di Formia (LT)	“Diploma di maturità classica” (mark 100/100)

Part III – Appointments

III A – Academic Appointments

Start	End	Institution	Position
01/2020	Now	Università “La Sapienza” di Roma	“Assegno di Ricerca” (Postdoctoral fellow)
2020	2029	“Abilitazione Scientifica Nazionale 03/C1”	Qualified for the role of Associate Professor in Organic Chemistry (Abilitazione scientifica nazionale a Professore di II Fascia in 03/C1)
06/2020	10/2020	Universitat de Girona, Spain	Post-doctoral fellow
12/2019	03/2020	Universitat de Girona, Spain	Post-doctoral fellow

11/2017	11/2019	Universitat de Girona, Spain	“Juan De La Cierva” Post-doctoral fellow (ranked 11 th over 91 participants in a national selection) Post-doctoral fellow Post-doctoral fellow (“Borsa collaborazione all’estero” awarded by “La Sapienza” university after local selection)
10/2016	11/2017	Universitat de Girona, Spain	
02/2016	09/2016	Universitat de Girona, Spain	

IIIB – Other Academic Appointments

Start	End	Institution	Position
09/2014	03/2015	Universitat de Girona, Spain	Visiting PhD student at QBIS-Cat group (Prof. M. Costas)
03/2015	04/2015	European Synchrotron Radiation Facility (ESRF, Grenoble)	Visiting PhD student in a short research stay at ESRF in the framework of a collaboration with Dr. S Pascarelli

Part IV – Teaching experience

Year	Institution	Lecture/Course
2019-2020	Universitat de Girona, Spain	“General Chemistry” (Fonaments de Química) for Biology students (3 CFU)
2019-2020	Universitat de Girona, Spain	Committee member of Master in Chemistry final examinations (07/2019 and 07/2020)
2021	Università “La Sapienza” di Roma	Mentoring and informal supervision of master and bachelor thesis students (3 master and 1 bachelor student)
2016-2020	Universitat de Girona, Spain	Mentoring and informal supervision of PhD and bachelor thesis students (3 PhD and 1 bachelor students in the PostDoc)
2012-2015	Università “La Sapienza” di Roma	Mentoring and informal supervision of master and bachelor thesis students (7 master and 4 bachelor students in the PhD)

Part V - Society memberships, Awards and Honors

A - Society memberships

Year	Title
2018-2021	Member of Società Chimica Italiana (SCI)
2017-2021	Member of Real Sociedad Española de Química (RSEQ)

B – Awards and honors

2020	“Reaxys-SCI Small Research Grant 2019” (national selection, 3 young Italian researchers awarded after national selection on 93 participants)
2019	“Best Oral Presentation” in ISOC-MMM conference (Spain)
2019	“Boehringer Ingelheim Stiftung award” in ISMSC conference (Italy)
2014	“Best Oral Presentation” in “VI Convegno Giovani” (Italy)
2012	“Laureato eccellente” of academic year 2011/2012 (awarded by Rettore and

C – Awards related to published articles

2020	G. Olivo*, [¶] G. Capocasa, [¶] B. Ticconi, O. Lanzalunga, S. Di Stefano*, M. Costas*, <i>Angew. Chem. Int. Ed.</i> 2020 , <i>59</i> , 12703-12708 “Predictable Selectivity in Remote C–H Oxidation of Steroids: Analysis of Substrate Binding Mode” <i>Selected as a VIP paper</i>
2020	M. Cianfanelli, [¶] G. Olivo, [¶] M. Milan, R. J. M. Klein Gebbink, X. Ribas, M. Bietti,* M. Costas*, <i>J. Am. Chem. Soc.</i> 2020 , <i>142</i> , 1584-1593. “Enantioselective C–H Lactonization of Unactivated Methylenes Directed by Carboxylic Acids” <i>Highlighted Organic Chemistry Portal on 26/10/2020</i> (https://www.organic-chemistry.org/Highlights/2020/26October.shtm)
2019	G. Capocasa, F. Sessa, F. Tavani, G. Olivo, M. Monte, S. Pascarelli, O. Lanzalunga*, S. Di Stefano*, P. D’Angelo*, <i>J. Am. Chem. Soc.</i> 2019 , <i>141</i> , 2299-2304. “Coupled X-Ray Absorption/UV-Vis Monitoring of Fast Oxidation Reactions Involving a Non-Heme Iron Oxo Complex” <i>Highlighted in the ESRF Spotlight on Science on 22/03/2019</i> .
2017	G. Olivo, A. Barbieri, V. Dantignana, F. Sessa, V. Migliorati, M. Monte, S. Pascarelli, T. Narayanan, O. Lanzalunga*, S. Di Stefano*, P. D’Angelo*, <i>J. Phys. Chem. Lett.</i> , 2017 , <i>8</i> , 2958-2963. “Following a Chemical Reaction on the Millisecond Time Scale by Simultaneous X-ray and UV/Vis Spectroscopy” <i>Highlighted in the ESRF Spotlight on Science on 25/07/2017</i> .
2017	G. Capocasa [¶] , G. Olivo [¶] , A. Barbieri, O. Lanzalunga, S. Di Stefano, <i>Catal. Sci. Tech.</i> 2017 , <i>7</i> , 5677-5686. “Direct hydroxylation of benzene and aromatics with H ₂ O ₂ catalyzed by a self-assembled iron complex: evidence for a metal-based mechanism” <i>Selected as “HOT Paper”</i>

Part VI - Funding Information**VIA – grants and fellowships as PI (Principal Investigator)**

Year	Title	Program	Grant value
2020	“Reaxys-SCI Small Research Grant” (S-ReCHOx)	“Reaxys-SCI Small Research Grant 2019”	4.500€ + 500€ award
2014	“Complessi Imminici Autoassemblati per Ossidazioni” (CIAO)	“Finanziamento Universitario 2014 – Progetti Avvio alla Ricerca”, Università “La Sapienza” di Roma	2.000€

VIB – grants as I (investigator)

Year	Title	Program	Grant value
2018	“Catálisis de oxidación bioinspirada mediante diseño racional de catalizadores” (PGC2018-101737-B-100)	Spanish Ministry of Research (PI: M. Costas)	242.000€
2016	“HIGHVALCAT” (CTQ2015-70795-P)	Spanish Ministry of Research. (PI: M. Costas)	157.000€
2015	“H ₂ O ₂ Activation by Non-Heme Iron Complexes: A Route for Sustainable and Selective Oxidation Processes” (C26H159F5B)	Università “La Sapienza” di Roma. (PI: P. D’Angelo)	30.000€
2016	“Following the ms timescale evolution of redox processes in manganese catalysts by simultaneous X-ray and UV/Vis absorption spectroscopy”	ESRF Synchrotron proposal	7 days beamtime
2014	“Structure and reactivity of non-heme high valent iron peroxo complexes”	ESRF Synchrotron proposal	7 days beamtime

VIC – Fellowships

Year	Title	Program	Grant value
2017	“Juan De La Cierva – Formaciòn” (PostDoc fellowship FJCI-2016-30243)	Spanish Ministry of Research (MICINN) <i>National selection, 11 fellowships awarded over 84 participants.</i>	50.000€ (2-year contract)
2016	“Borsa di collaborazione all’estero” (PostDoc Fellowship)	Università “La Sapienza” di Roma	10.300€ (8-months contract)
2012	“Dottorato di ricerca in Scienze Chimiche” con borsa	Università “La Sapienza” di Roma	45.000€ (3-years contract)
2013	“Travel Grant” to participate to ISOC conference	COST Action	300€
2018	“Travel RSEQ-JIQ fellowship” to participate to ICCS conference	“RSEQ-JIQ fellowship”	250€

Part VII – Research Activities

Keywords	Brief Description
Organic Chemistry	My post-doc work in Prof. M. Costas’ group focused on the design of a supramolecular strategy to tune activity and selectivity in oxidation reactions catalyzed by bioinspired Fe and Mn complexes and H ₂ O ₂ . The developed catalysts contain supramolecular receptors (18-crown-6 ethers) to recognize protonated primary amines. Substrate preorganization via recognition brings only specific C-H bonds in the proximity of the
Supramolecular chemistry	
Homogeneous catalysis	
Inorganic Chemistry	

C-H Functionalization	oxidizing moiety, increasing their reactivity. This concept unlocked the selective, remote C-H oxidation of linear alkyl amines and their substrate-selective functionalization, as well as predictable, remote C-H oxidation of steroids. A second research line focuses on the design of chiral Mn catalysts for the enantioselective γ -C-H lactonization of carboxylic acids.
Organic Chemistry	My PhD work , under the supervision of Dr. S. Di Stefano, was aimed at the study of oxidations catalyzed by nonheme iron complexes from both a mechanistic and a synthetic perspective. A new, simple catalyst has been designed and tested in aliphatic and aromatic C-H oxidation. Mechanistic investigations have been carried out both on the new catalyst and on already reported systems. A new technique for the complementary UV-XAS monitoring of fast inorganic reactions was developed.
Oxidation	
Catalysis	
Reaction Mechanism	

Part VIII – Summary of Scientific Achievements

VIIIA – Bibliometric indicators

Product type	Number	Data Base	Start	End
Papers [international]	25	SCOPUS	2013	2021
Books [scientific]	1	SCOPUS	2019	2019
Invited talks	2		2015	2019
Oral communications	11		2012	2019
Poster presentations	10		2012	2019

Total Impact factor	159.52
Average Impact factor per Publication	6.381
Total Citations	511
Average Citations per Publication	20.44
Hirsch (H) index	14
<i>Normalized H index*</i>	<i>1.55</i>
<i>Hirsch (H) index (calculated on publications of last 10 years)</i>	<i>14</i>
<i>Total Citations of the publications of the last 10 years</i>	<i>511</i>
<i>Total number of publications in the last 5 years</i>	<i>21</i>

*H index divided by the academic seniority.

VIIIB – Full list of Publications

Authors designated with * are corresponding authors. Authors designated with [¶] contributed equally to the work (i.e., co-first authors). The candidate's name in the author list is underlined. The IF is related to the year of publication (for the most recent publications, if not yet available, the IF of the previous year of the publication year is used). The number of citations is as reported con SCOPUS database.

ORCID ID: 0000-0003-4053-7673

First (or co-first) name: n. 13 papers

Co-corresponding author (*): n. 5 papers

1	F. Fratelloreto, G. Capocasa, <u>G. Olivo</u> , K. A. Hady, C. Sappino, M. Di Berto Mancini, S. Levi Mortera, O. Lanzalunga, S. Di Stefano*, <i>RSC Adv.</i> 2021 , 11, 537-542 (<i>IF</i> = 3.119; 0 citations)
	“Increasing the steric hindrance around the catalytic core of a self-assembled imine-based non-heme iron catalyst for C–H oxidation”
2	B. Ticconi, G. Capocasa, A. Cerrato, S. Di Stefano, A. Lapi, B. Marincioni, <u>G. Olivo</u> , O. Lanzalunga*, <i>Catal. Sci. Tech.</i> 2021 , 11, 171-178. (<i>IF</i> = 5.721; 0 citations)
	“Insight into the Chemoselective Aromatic vs Side-chain Hydroxylation of Alkylaromatics with H ₂ O ₂ Catalyzed by a Non-Heme Imine Based Iron Complex”
3	<u>G. Olivo</u> *, [¶] G. Capocasa, [¶] B. Ticconi, O. Lanzalunga, S. Di Stefano*, M. Costas*, <i>Angew. Chem. Int. Ed.</i> 2020 , 59, 12703-12708 (¶Equal contribution) (<i>IF</i> = 12.959; 6 citations)
	“Predictable Selectivity in Remote C–H Oxidation of Steroids: Analysis of Substrate Binding Mode”
	<i>Selected as a VIP paper</i>
4	M. Cianfanelli, [¶] <u>G. Olivo</u> , [¶] M. Milan, R. J. M. Klein Gebbink, X. Ribas, M. Bietti,* M. Costas*, <i>J. Am. Chem. Soc.</i> 2020 , 142, 1584-1593. (¶Equal contribution) (<i>IF</i> = 14.612; 14 citations)
	“Enantioselective C–H Lactonization of Unactivated Methylene Directed by Carboxylic Acids”
	<i>Highlighted Organic Chemistry Portal on October 26th, 2020 (https://www.organic-chemistry.org/Highlights/2020/26October.shtm)</i>
5	L. Vicens, <u>G. Olivo</u> *, M. Costas*, <i>ACS Catal.</i> 2020 , 10, 8611-8631 (<i>IF</i> = 12.350; 16 citations)
	“Rational Design of Bioinspired Catalysts for Selective Oxidations”
6	G. Capocasa, M. Di Berto Mancini, F. Fratelloreto, O. Lanzalunga, <u>G. Olivo</u> , S. Di Stefano* <i>Eur. J. Org. Chem.</i> 2020 , 23, 3390-3397 (<i>IF</i> = 2.889; 2 citations)
	“Easy Synthesis of a Self-Assembled Imine-based Iron(II) Complex Endowed with Crown-ethers Receptors”
7	G. Capocasa, F. Sessa, F. Tavani, <u>G. Olivo</u> , M. Monte, S. Pascarelli, O. Lanzalunga*, S. Di Stefano*, P. D’Angelo*, <i>J. Am. Chem. Soc.</i> 2019 , 141, 2299-2304. (<i>IF</i> = 14.612; 13 citations)
	“Coupled X-Ray Absorption/UV-Vis Monitoring of Fast Oxidation Reactions Involving a Non-Heme Iron Oxo Complex”
	<i>Highlighted in the ESRF Spotlight on Science on 22/03/2019.</i>
8	<u>G. Olivo</u> *, G. Capocasa, O. Lanzalunga, S. Di Stefano*, M. Costas*, <i>Chem. Commun.</i> 2019 , 7, 917-920. (<i>IF</i> = 5.996; 15 citations)
	“Enzyme-like Substrate-Selectivity in CH Oxidation Enabled by Recognition”

9	D. Vidal, G. Olivo*, M. Costas*, <i>Chem. A Eur. J.</i> , 2018 , <i>24</i> , 5042-5054. (IF = 5.160; 27 citations)
	“Controlling selectivity in aliphatic C-H oxidation via supramolecular recognition”
10	B. Ticconi, A. Colcerasa, S. Di Stefano, O. Lanzalunga*, A. Lapi, M. Mazzonna, G. Olivo, <i>RSC Adv.</i> , 2018 , <i>8</i> , 19144-19151. (IF = 3.049; 6 citations)
	“Oxidative functionalization of aliphatic and aromatic amino acid derivatives with H ₂ O ₂ catalyzed by a nonheme imine based iron complex”
11	G. Olivo*, G. Farinelli, A. Barbieri, O. Lanzalunga, S. Di Stefano*, M. Costas*, <i>Angew. Chem. Int. Ed.</i> , 2017 , <i>56</i> , 16347-16351. (IF = 12.102; 33 citations)
	“Supramolecular Recognition Allows Remote, Site-Selective C–H Oxidation of Methylenic Sites in Linear Amines”
12	G. Capocasa [†] , G. Olivo [†] , A. Barbieri, O. Lanzalunga, S. Di Stefano,* <i>Catal. Sci. Tech.</i> 2017 , <i>7</i> , 5677-5686. ([†] Equal contribution) (IF ₂₀₁₇ = 5.365; 25 citations)
	“Direct hydroxylation of benzene and aromatics with H ₂ O ₂ catalyzed by a self-assembled iron complex: evidence for a metal-based mechanism”
	<i>Selected as a “HOT Paper”</i>
13	G. Olivo, A. Barbieri, V. Dantignana, F. Sessa, V. Migliorati, M. Monte, S. Pascarelli, T. Narayanan, O. Lanzalunga*, S. Di Stefano*, P. D’Angelo*, <i>J. Phys. Chem. Lett.</i> , 2017 , <i>8</i> , 2958-2963. (IF = 8.709; 5 citations)
	“Following a Chemical Reaction on the Millisecond Time Scale by Simultaneous X-ray and UV/Vis Spectroscopy”
	<i>Highlighted in the ESRF Spotlight on Science on 25/07/2017.</i>
14	S. Albano, G. Olivo, L. Mandolini, F. Ugozzoli, S. Di Stefano*, <i>J. Org. Chem.</i> , 2017 , <i>82</i> , 3820-3825. (IF ₂₀₁₇ = 4.805; 10 citations)
	“Unexpected Formation of an Imidazopyridine Structure as the Indirectly Templated Product of an Imine-based Dynamic Library”
15	G. Olivo, O. Cussò, M. Borrell, M. Costas*, <i>J. Biol. Inorg. Chem.</i> , 2017 , <i>22</i> , 425-452. (IF ₂₀₁₇ = 2.952; 83 citations)
	“Oxidation of Alkane and Alkene Moieties with Biologically Inspired Nonheme Iron Catalysts and Hydrogen Peroxide. From Free-Radicals to Stereoselective Transformations”
16	A. Barbieri, S. Di Stefano, O. Lanzalunga*, A. Lapi, M. Mazzonna, G. Olivo, <i>Phosphorus, Silicon and the Related Elements</i> . 2017 , <i>192</i> , 241-244. (IF = 0.674; 3 citations)
	“Role of Electron Transfer Processes in the Oxidation of Aryl Sulfides Catalysed by Nonheme Iron Complexes”
17	A. Barbieri, T. Del Giacco, S. Di Stefano, O. Lanzalunga*, A. Lapi, M. Mazzonna, G. Olivo, <i>J. Org. Chem.</i> 2016 , <i>81</i> , 12382-12387. (IF = 4.849; 6 citations)
	“Electron Transfer Mechanism in the Oxidation of Aryl 1-Methyl-1-phenylethyl Sulfides Promoted by Nonheme Iron(IV)-Oxo Complexes: The Rate of the Oxygen Rebound

	Process”
18	G. Olivo, O. Cussó, M. Costas*, <i>Chem. As. J.</i> 2016 , <i>11</i> , 3148-3158. (<i>IF</i> = 4.083; 56 citations) “Biologically Inspired C-H and C=C Oxidations with H ₂ O ₂ Catalyzed by Iron Coordination Complexes” Highlighted as a “spotlight on our sister journals” by <i>Angew. Chem.</i> (ed. 3/2017).
19	G. Olivo, S. Giosia, A. Barbieri, O. Lanzalunga, S. Di Stefano*, <i>Org. Biomol. Chem.</i> 2016 , <i>14</i> , 10630 – 10635. (<i>IF</i> = 3.564; 20 citations) “Alcohol Oxidation with H ₂ O ₂ Catalyzed by a Cheap and Promptly Available Imine Based Iron Complex”
20	A. Barbieri, R. De Carlo, T. Del Giacco, S. Di Stefano, O. Lanzalunga*, A. Lapi, M. Mazzonna, G. Olivo, M. Salamone, <i>J. Org. Chem.</i> , 2016 , <i>81</i> , 2513-2520. (<i>IF</i> = 4.849; 15 citations) “Oxidation of Aryl Diphenylmethyl Sulfides Promoted by a Non-Heme Iron(IV)-Oxo Complex: Evidence for Electron Transfer-Oxygen Transfer Mechanism”
21	G. Olivo, O. Lanzalunga, S. Di Stefano*, <i>Advanced Synthesis & Catalysis</i> , 2016 , <i>358</i> , 843-863. (<i>IF</i> = 5.646; 71 citations) “Nonheme Imine-based Iron Complexes as Catalysts for Oxidative Processes”
22	G. Olivo, M. Nardi, A. Barbieri, A. Lapi, L. Gómez, O. Lanzalunga, M. Costas*, S. Di Stefano*, <i>Inorg. Chem.</i> , 2015 , <i>54</i> , 10141-10152. (<i>IF</i> = 4.820; 30 citations) “C-H bond oxidation catalyzed by an imine-based iron complex: a mechanistic insight”
23	A. Barbieri, M. De Gennaro, S. Di Stefano, O. Lanzalunga*, A. Lapi, M. Mazzonna, G. Olivo, B. Ticconi, <i>Chem. Commun.</i> 2015 , <i>51</i> , 5032-5035. (<i>IF</i> = 6.567; 9 citations) “Isotope effect profiles in the N-demethylation of <i>N,N</i> -dimethylanilines: a key to determine the pka of nonheme Fe(III)-OH complexes”
24	G. Olivo, G. Arancio, L. Mandolini, O. Lanzalunga, S. Di Stefano*, <i>Catal. Sci. Tech.</i> 2014 , <i>4</i> , 2900-2903. (<i>IF</i> ₂₀₁₆ = 5.426; 22 citations) “Hydrocarbon Oxidation Catalyzed by a Cheap Nonheme Imine-Based Iron (II) Complex”
25	G. Olivo, O. Lanzalunga, L. Mandolini, S. Di Stefano*, <i>J. Org. Chem.</i> 2013 , <i>58</i> , 11508-11512. (<i>IF</i> = 4.638; 24 citations) “Substituent Effects on the Catalytic Activity of Bipyrrolidine-Based Iron Complexes”
	BOOK CHAPTERS
1	G. Olivo, O. Lanzalunga, S. Di Stefano,* book chapter in <i>Alkane Functionalization</i> , edited by A. J. L. Pombeiro, published by Wiley on 2019 in Mannheim, Germany. “Imine-based Iron and Manganese Complexes as Catalysts for Alkane Functionalization”

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Reviewing activity

2018 *Adv. Synth. & Cat.*

2020-now *Synlett, SynOpen, Eur J.O.C., Polyhedron, Org. Biomol. Chem.*

VIII C – List of Invited talks

1	Convegno Giovani Ricercatori 2019
	Rome (Italy), 25-26/06/2019
	<i>“Supramolecular control of selectivity in Mn catalyzed C_{sp}³-H Hydroxylation”</i>
2	Seminari di istituto CNR
	Montelibretti (Italy), 29/10/2015
	<i>“Aliphatic C-H Oxidation catalyzed by nonheme imine-based iron complexes”</i>

VIII D – List of Oral Communications delivered at conferences

1	ISOC-MMM 2019 (International School on Organometallic Chemistry Marcial Moreno Mañas) , 12-14/06/2019, Castellò de la Plana, Spain
	<i>“Supramolecular control of selectivity in Mn catalyzed C_{sp}³-H oxidation”</i>
2	H₂TrapCatBioO₂ Meeting , 25-26/10/2018, Castellò de la Plana, Spain
	<i>“Remote C-H Oxidation guided by Supramolecular Recognition”</i>
3	2nd TransPyrenean Meeting , 18-19/10/2018, Tarragona, Spain
	<i>“Selective C-H Oxidation directed by Supramolecular Interactions”</i>
4	CDCO 2018 , 9-13/09/2018, Milano, Italy
	<i>“Selective, Remote C-H Oxidation guided by Supramolecular Recognition”</i>
5	ICCC 2018 (International Conference on Coordination Chemistry) , 30/07-04/08/2018, Sendai, Japan
	<i>“Selective, Remote C-H Oxidation guided by Supramolecular Recognition”</i>
6	2nd iCHAT (International Conference on Hydrogen Atom Transfer) , 02-06/07/2017, Monteporzio Catone, Italy
	<i>“Selective, Remote C-H Oxidation guided by Supramolecular Recognition”</i>
7	XXV Congresso Nazionale S.C.I. 2014 , 07-12/09/2014, Rende, Italy
	<i>“Aliphatic C-H Oxidation Catalysed by in situ prepared Fe(II) Complexes”</i>
8	1st iCHAT (International Conference on Hydrogen Atom Transfer) , 22-26/06/2014, Monteporzio Catone, Italy
	<i>“Aliphatic C-H Oxidation Catalysed by in situ prepared Fe(II) Complexes”</i>
9	VI Convegno Giovani Chimici , 17-18/06/2014, Roma, Italy
	<i>“C-H Bond Oxidation Catalysed by Nonheme Imine-based Fe(II) Complexes”</i>
10	XI PhD-day CIRCC , 27/03/2014, Bari, Italy
	<i>“Hydrocarbon oxidation by means of a cheap Fe(II)-based catalyst”</i>
11	X PhD-day CIRCC , 23/04/2012, Pisa, Italy

“Substituent effect in iron catalysed C-H bond oxidation”

Part VIII E – List of conferences where the candidate acted as a chairman

1 **Girona seminar – Young Investigator Symposium, 03-06/04/2018, Girona, Spain**

Part VIII F – List of Poster Presentations at conferences

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

Part IX – Selected Publications

List of the publications selected for the evaluation. Authors designated with * are corresponding authors. Authors designated with † contributed equally to the work (i.e., co-first authors). The candidate's name in the author list is underlined. The IF is related to the year of publication (for the most recent publications, if not yet available, the IF of the previous year of the publication year is used). The number of citations is as reported on SCOPUS database.

1	<u>G. Olivo</u> *, † G. Capocasa, † B. Ticconi, O. Lanzalunga, S. Di Stefano*, M. Costas*, <i>Angew. Chem. Int. Ed.</i> 2020 , <i>59</i> , 12703-12708 (†Equal contribution) (<i>IF</i> = 12.959; 6 citations) “Predictable Selectivity in Remote C–H Oxidation of Steroids: Analysis of Substrate Binding Mode” <i>Selected as a VIP paper</i>
2	M. Cianfanelli, † <u>G. Olivo</u> , † M. Milan, R. J. M. Klein Gebbink, X. Ribas, M. Bietti, * M. Costas*, <i>J. Am. Chem. Soc.</i> 2020 , <i>142</i> , 1584-1593. (†Equal contribution) (<i>IF</i> = 14.612; 14 citations) “Enantioselective C–H Lactonization of Unactivated Methylenes Directed by Carboxylic Acids” <i>Highlighted Organic Chemistry Portal on October 26th, 2020 (https://www.organic-chemistry.org/Highlights/2020/26October.shtm)</i>
3	L. Vicens, <u>G. Olivo</u> *, M. Costas*, <i>ACS Catal.</i> 2020 , <i>10</i> , 8611-8631 (<i>IF</i> = 12.350; 16 citations)

	“Rational Design of Bioinspired Catalysts for Selective Oxidations”
4	G. Capocasa, M. Di Berto Mancini, F. Fratello, O. Lanzalunga, <u>G. Olivo</u> , S. Di Stefano* <i>Eur. J. Org. Chem.</i> 2020 , <i>23</i> , 3390-3397 (<i>IF</i> = 2.889; 2 citations) “Easy Synthesis of a Self-Assembled Imine-based Iron(II) Complex Endowed with Crown-ethers Receptors”
5	G. Capocasa, F. Sessa, F. Tavani, <u>G. Olivo</u> , M. Monte, S. Pascarelli, O. Lanzalunga*, S. Di Stefano*, P. D’Angelo*, <i>J. Am. Chem. Soc.</i> 2019 , <i>141</i> , 2299-2304. (<i>IF</i> = 14.612; 12 citations) “Coupled X-Ray Absorption/UV-Vis Monitoring of Fast Oxidation Reactions Involving a Non-Heme Iron Oxo Complex” <i>Highlighted in the ESRF Spotlight on Science on 22/03/2019.</i>
6	<u>G. Olivo</u> *, G. Capocasa, O. Lanzalunga, S. Di Stefano*, M. Costas*, <i>Chem. Commun.</i> 2019 , <i>7</i> , 917-920. (<i>IF</i> = 5.996; 15 citations) “Enzyme-like Substrate-Selectivity in CH Oxidation Enabled by Recognition”
7	D. Vidal, <u>G. Olivo</u> *, M. Costas*, <i>Chem. A Eur. J.</i> , 2018 , <i>24</i> , 5042-5054. (<i>IF</i> = 5.160; 27 citations) “Controlling selectivity in aliphatic C-H oxidation via supramolecular recognition”
8	<u>G. Olivo</u> *, G. Farinelli, A. Barbieri, O. Lanzalunga, S. Di Stefano*, M. Costas*, <i>Angew. Chem. Int. Ed.</i> , 2017 , <i>56</i> , 16347-16351. (<i>IF</i> = 12.102; 33 citations) “Supramolecular Recognition Allows Remote, Site-Selective C–H Oxidation of Methylenic Sites in Linear Amines”
9	G. Capocasa [¶] , <u>G. Olivo</u> [¶] , A. Barbieri, O. Lanzalunga, S. Di Stefano,* <i>Catal. Sci. Tech.</i> 2017 , <i>7</i> , 5677-5686. ([¶] Equal contribution) (<i>IF</i> ₂₀₁₇ = 5.365; 25 citations) “Direct hydroxylation of benzene and aromatics with H ₂ O ₂ catalyzed by a self-assembled iron complex: evidence for a metal-based mechanism”
10	<u>G. Olivo</u> , A. Barbieri, V. Dantignana, F. Sessa, V. Migliorati, M. Monte, S. Pascarelli, T. Narayanan, O. Lanzalunga*, S. Di Stefano*, P. D’Angelo*, <i>J. Phys. Chem. Lett.</i> , 2017 , <i>8</i> , 2958-2963. (<i>IF</i> = 8.709; 5 citations) “Following a Chemical Reaction on the Millisecond Time Scale by Simultaneous X-ray and UV/Vis Spectroscopy” <i>Highlighted in the ESRF Spotlight on Science on 25/07/2017.</i>
11	S. Albano, <u>G. Olivo</u> , L. Mandolini, F. Ugozzoli, S. Di Stefano*, <i>J. Org. Chem.</i> , 2017 , <i>82</i> , 3820-3825. (<i>IF</i> ₂₀₁₇ = 4.805; 10 citations) “Unexpected Formation of an Imidazopyridine Structure as the Indirectly Templated Product of an Imine-based Dynamic Library”
12	<u>G. Olivo</u> , O. Cussò, M. Borrell, M. Costas*, <i>J. Biol. Inorg. Chem.</i> , 2017 , <i>22</i> , 425-452.

	(<i>IF</i> ₂₀₁₇ = 2.952; 83 citations)
	“Oxidation of Alkane and Alkene Moieties with Biologically Inspired Nonheme Iron Catalysts and Hydrogen Peroxide. From Free-Radicals to Stereoselective Transformations”
13	G. Olivo, S. Giosia, A. Barbieri, O. Lanzalunga, S. Di Stefano*, <i>Org. Biomol. Chem.</i> 2016 , <i>14</i> , 10630 – 10635. (<i>IF</i> = 3.564; 20 citations)
	“Alcohol Oxidation with H ₂ O ₂ Catalyzed by a Cheap and Promptly Available Imine Based Iron Complex”
14	A. Barbieri, R. De Carlo, T. Del Giacco, S. Di Stefano, O. Lanzalunga*, A. Lapi, M. Mazzonna, G. Olivo, M. Salamone, <i>J. Org. Chem.</i> , 2016 , <i>81</i> , 2513-2520. (<i>IF</i> = 4.849; 15 citations)
	“Oxidation of Aryl Diphenylmethyl Sulfides Promoted by a Non-Heme Iron(IV)-Oxo Complex: Evidence for Electron Transfer-Oxygen Transfer Mechanism”
15	A. Barbieri, T. Del Giacco, S. Di Stefano, O. Lanzalunga*, A. Lapi, M. Mazzonna, G. Olivo, <i>J. Org. Chem.</i> 2016 , <i>81</i> , 12382-12387. (<i>IF</i> = 4.849; 6 citations)
	“Electron Transfer Mechanism in the Oxidation of Aryl 1-Methyl-1-phenylethyl Sulfides Promoted by Nonheme Iron(IV)-Oxo Complexes: The Rate of the Oxygen Rebound Process”
16	G. Olivo, O. Lanzalunga, S. Di Stefano*, <i>Advanced Synthesis & Catalysis</i> , 2016 , <i>358</i> , 843-863. (<i>IF</i> = 5.646; 71 citations)
	“Nonheme Imine-based Iron Complexes as Catalysts for Oxidative Processes”
17	G. Olivo, M. Nardi, A. Barbieri, A. Lapi, L. Gómez, O. Lanzalunga, M. Costas*, S. Di Stefano*, <i>Inorg. Chem.</i> , 2015 , <i>54</i> , 10141-10152. (<i>IF</i> = 4.820; 30 citations)
	“C-H bond oxidation catalyzed by an imine-based iron complex: a mechanistic insight”
18	A. Barbieri, M. De Gennaro, S. Di Stefano, O. Lanzalunga*, A. Lapi, M. Mazzonna, G. Olivo, B. Ticconi, <i>Chem. Commun.</i> 2015 , <i>51</i> , 5032-5035. (<i>IF</i> = 6.567; 9 citations)
	“Isotope effect profiles in the N-demethylation of <i>N,N</i> -dimethylanilines: a key to determine the pka of nonheme Fe(III)-OH complexes”
19	G. Olivo, G. Arancio, L. Mandolini, O. Lanzalunga, S. Di Stefano*, <i>Catal. Sci. Tech.</i> 2014 , <i>4</i> , 2900-2903. (<i>IF</i> ₂₀₁₆ = 5.426; 22 citations)
	“Hydrocarbon Oxidation Catalyzed by a Cheap Nonheme Imine-Based Iron (II) Complex”
20	G. Olivo, O. Lanzalunga, L. Mandolini, S. Di Stefano*, <i>J. Org. Chem.</i> 2013 , <i>58</i> , 11508-11512. (<i>IF</i> = 4.638; 24 citations)
	“Substituent Effects on the Catalytic Activity of Bipyrrolidine-Based Iron Complexes”

Part X– Direction or Participation to the activities of a research group characterized by international and national collaboration.

X A Direction and co-direction (corresponding author/s is/are asterisked) at **international** level

International collaboration with the group of Prof M. Costas (QBIS-Cat, IQCC, Universitat de Girona, Spain) and the group of S. Di Stefano (Università “La Sapienza”, Roma, Italy). As evidence of this co-direction there are three research articles where I am co-corresponding author (copies of these articles are in the list of selected publications attached to the application).

1) “*Supramolecular Recognition Allows Remote, Site-Selective C-H Oxidation of Methylenic Sites in Linear Amines*”

G. Olivo*, G. Farinelli, A. Barbieri, O. Lanzalunga, S. Di Stefano*, M. Costas*, *Angew. Chem. Int. Ed.* **2017**, *56*, 16347–16351.

2) “*Enzyme-like Substrate-Selectivity in C-H Oxidation Enabled by Recognition*”

G. Olivo*, G. Capocasa, O. Lanzalunga, S. Di Stefano*, M. Costas*, *Chem. Comm.*, **2019**, *55*, 917-920.

3) “*Predictable Selectivity in Remote C–H Oxidation of Steroids: Analysis of Substrate Binding Mode*”

G. Olivo*, G. Capocasa, B. Ticconi, O. Lanzalunga, S. Di Stefano*, M. Costas*, *Angew. Chem. Int. Ed.* **2020**, *59*, 12703-12708.

X B Direction and co-direction (corresponding author/s is/are asterisked) at **national** level

National collaboration with the group of Prof M. Costas (QBIS-Cat, IQCC, Universitat de Girona, Spain). As evidence of this co-direction there are two articles (reviews) where I am co-corresponding author (copies of these articles are in the list of selected publications attached to the application).

1) “*Rational Design of Bioinspired Catalysts for Selective Oxidations*”

L. Vicens, G. Olivo*, M. Costas*, *ACS Catal.* **2020**, *10*, 8611-8631

2) “*Controlling selectivity in aliphatic C-H oxidation via supramolecular recognition*”

D. Vidal, G. Olivo*, M. Costas*, *Chem. A Eur. J.*, **2018**, *24*, 5042-5054.

XC Participation (corresponding author/s is/are asterisked) at **international** level

International collaboration with the group of Doctor Sakura Pascarelli and of Doctor Theyencheri Narayanan of European Synchrotron Radiation Facility, Grenoble (Fr). As evidence of this participation there are two research articles (copies of these articles are in the list of selected publications attached to the application).

1) “*Following a Chemical Reaction on the Millisecond Time Scale by Simultaneous X-ray and UV/Vis Spectroscopy*”

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.

2) “*Coupled X-Ray Absorption/ UV-Vis Monitoring of Fast Oxidation Reactions Involving a Non-Heme Iron Oxo Complex*”

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.

International collaboration with the group of Prof. Massimo Bietti (Università di Tor Vergata, Rome, Italy) and of Prof. B. J. Klein Gebbink (University of Urecht, The Netherlands). As evidence of this participation there is one research article (copy of it is in the list of selected publications attached to the application).

1) “*Enantioselective C–H Lactonization of Unactivated Methylenes Directed by Carboxylic Acids*”
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. ([¶]Equal contribution)

XD Participation (corresponding author/s is/are asterisked) **at national level**

Collaboration with the group of Dr. F. Ugozzoli (Università di Parma, Italy). As evidence of this participation there is one research article (its copy is in the list of selected publications attached to the application).

1) “*Unexpected Formation of an Imidazopyridine Structure as the Indirectly Templated Product of an Imine-based Dynamic Library*”
S. Albano, G. Olivo, L. Mandolini, F. Ugozzoli, S. Di Stefano*, *J. Org. Chem.*, **2017**, *82*, 3820-3825.

Collaboration with the group of Dr. T. Del Giacco (Università di Perugia, Italy). As evidence of this participation there are two research articles (their copy is in the list of selected publications attached to the application).

1) “*Electron Transfer Mechanism in the Oxidation of Aryl 1-Methyl-1-phenylethyl Sulfides Promoted by Nonheme Iron(IV)-Oxo Complexes: The Rate of the Oxygen Rebound Process*”
A. Barbieri, T. Del Giacco, S. Di Stefano, O. Lanzalunga*, A. Lapi, M. Mazzonna, G. Olivo, *J. Org. Chem.* **2016**, *81*, 12382-12387.

2) “*Oxidation of Aryl Diphenylmethyl Sulfides Promoted by a Non-Heme Iron(IV)-Oxo Complex: Evidence for Electron Transfer-Oxygen Transfer Mechanism*”
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.