**Luca Capaldo**

**- CV -**

* **PERSONAL INFORMATION**

Name Luca Capaldo

Date of birth 27/08/1991

Nationality Italian

* **CURRENT POSITION**

01/10/2023 – present **Assistant Professor** @ University of Parma

Department of Chemistry, Life Sciences and Environmental Sustainability,

University of Parma, Italy

* **PREVIOUS POSITIONS**

01/04/2023 – 30/09/2023 **Post-doctoral Fellowship**

Project: “*Multi Modal Photochemistry*” funded by NWO

 Supervisor: Prof. Timothy Noël

 Flow Chemistry Group, Van 't Hoff Institute for Molecular Sciences (HIMS), University of Amsterdam, The Netherlands

01/04/2021 – 31/03/2023 **MSCA Individual Fellowship**

Project: “*Flow Photoelectrocatalysis via Hydrogen-Atom Transfer: net-oxidative C−H to C−C bond conversion*” (HAT-TRICK, Project no. 101023615) funded by European Union’s Horizon 2020 research and innovation programme.

 Supervisor: Prof. Timothy Noël

 Flow Chemistry Group, Van 't Hoff Institute for Molecular Sciences (HIMS), University of Amsterdam, The Netherlands

01/01/2021 – 31/03/2021 **Post-doctoral Fellowship**

 Project: “*Photochemical C‒H bond amination*” funded by Lilly Research Award Program

 Supervisor: Prof. Timothy Noël

 Flow Chemistry Group, Van 't Hoff Institute for Molecular Sciences (HIMS), University of Amsterdam, The Netherlands

01/10/2018 ‒ 31/12/2020 **Post-doctoral Fellowship**

01/10/2020 ‒ 31/12/2020 *Photocatalytic processes applied to radical substitution reactions*

 Supervisor: Prof. Davide Ravelli

 PhotoGreen Lab, Department of Chemistry, University of Pavia, Italy

01/10/2019 ‒ 30/09/2020 *Synthetic processes mediated by high-energy intermediates*

 Supervisor: Prof. Davide Ravelli

 PhotoGreen Lab, Department of Chemistry, University of Pavia, Italy

01/10/2018 ‒ 30/09/2019 *Metallo-oxo complexes as photocatalysts in reactions via Hydrogen Atom Transfer”*

 Supervisor: Prof. Davide Ravelli

 PhotoGreen Lab, Department of Chemistry, University of Pavia, Italy

* **EDUCATION**

01/10/2015‒ 30/09/2018 **Ph.D. in Chemical and Pharmaceutical Sciences**

Department of Chemistry, University of Pavia, Italy

Defense: 22/02/2019 (final grade: *eccellente*. Comparable to Summa cum Laude)

Advisor: Prof. Maurizio Fagnoni.

Thesis title: *Novel Photocatalytic Approaches for Ecosustainable Synthesis*

Abstract published on *EPA Newsletters – December 2018, pp. 42-47*

14/10/2013‒ 22/07/2015 **Master’s Degree in Chemistry**

Department of Chemistry, University of Pavia, Italy

Degree obtained on 22/07/2015 (110/110 *Magna cum Laude*)

Advisors: Prof. Luisa de Cola and Prof. Maurizio Fagnoni

Thesis title: *Organic Chemistry for Bioimaging, LEDs and Superconductors*

13/09/2010‒ 25/07/2013 **Bachelor’s Degree in Chemistry**

Department of Chemistry, University of Pavia, Italy

Degree obtained on 25/07/2013 (110/110 *Magna cum Laude*)

Advisor: Prof. Angelo Albini

Thesis title: *HAT & SET: Two Competing Mechanisms for Photocatalyzed Reactions*

* **INTERNSHIPS**

08/01/2018 ‒ 08/06/2018 **Visiting Ph.D. Student**

Project: “*[2+2] photocycloadditions mediated by Ir-complexes*”

Department of Chemistry, University of Wisconsin-Madison, United States

Advisor: Prof. Tehshik P. Yoon

Publication: *Org. Lett.* **2021**, *23*, 3496–3501

01/10/2014 ‒ 28/02/2015 **Visiting M.Sc. Student (Erasmus Traineeship)**

Project: “*Pt and Zn complexes for applications in bioimaging and OLEDs*”

Institut de Science et d'Ingénierie Supramoléculaires, Strasbourg, France

Advisor: Prof. Luisa De Cola

Publication: *Isr. J. Chem.* **2019***, 59,* 892–897

* **AWARDS**

27/03/2023 **2023 CAS Future Leaders Top 100** by CAS (American Chemical Society). *The CAS Future Leaders program supports the growth of science leadership potential among early-career scientists. It is awarded once per year.*

06/10/2020 **“Primo Levi” award** by the Italian Chemical Society. *This is the most prestigious prize for young chemists and is awarded by the Young Group of the Italian Chemical Society in recognition of an outstanding publication. It is awarded once per year.*

28/02/2020 **“conScienze 2019” Ph.D. thesis award** by the Conferenza Nazionale dei Presidenti e dei Direttori delle Strutture Universitarie di Scienze e Tecnologie. *This is a national award given to outstanding Ph.D. theses in scientific disciplines by a consortium of chiefs and head of departments. It is awarded once per year.*

30/09/2019 **“Ugo Mazzucato” Best PhD thesis award** in Photochemistry 2019 (XXXI cycle) by the Italian Group of Photochemistry of the Italian Chemical Society. *This is a national award given to the best Ph.D. thesis in photochemistry in Italy. It is awarded once per year.*

04/06/2019 **Best Ph.D. Thesis Award** in “Organic Chemistry in its Methodological Aspects” by the Italian Chemical Society – Division of Organic Chemistry. *This is the most prestigious prize for a Ph.D. candidate and is awarded by the Italian Chemistry Society for the best thesis contributing to the development of organic chemistry from a methodological standpoint. It is awarded once per year.*

13/06/2019 **Best Oral Presentation** Awards assigned by the Audience and the Organizing Committee at “ISOS2019 - "A. Corbella" International Summer School on Organic Synthesis”. *I was awarded the Best Oral Presentation Award both by the Organizing Committee and by the Audience.*

16/12/2017 **Best Oral Presentation** Award assigned by the Scientific Committee at “Italian Photochemistry Meeting 2017”. *I was awarded the Best Oral Presentation Award by the Organizing Committee.*

12/09/2017 **Reaxys Sci Young Researcher Award** (2nd Place) by Elsevier and the Italian Chemical Society (Young group). *This is an international award for Ph.D. students. Candidates have to submit an essay explaining their research and how Reaxys was pivotal for it.*

* **NATIONAL SCIENTIFIC QUALIFICATION (ASN)**

I received the National Scientific Habilitation (Abilitazione Scientifica Nazionale, as associate professor **SC 03/C1** – Organic Chemistry) on 02/06/2022.

* **GRANTS**

01/04/2021 – 31/03/2023 MSCA Individual Fellowship (HAT-TRICK, Project no. 101023615) funded by European Union’s Horizon 2020 research and innovation programme.

20/04/2020 – 12/02/2021 Collaborator in the High-Performance Computing (HPC) project (code IsC78\_PBsquare) granted by the Italian Consortium CINECA-SCAI.

08/01/2018‒ 08/06/2018 “Borsa di studio per periodi di ricerca all’estero” internship grant from the University of Pavia

01/10/2014‒ 28/02/2015 Erasmus Traineeship fellowship

* **DIDACTICAL ACTIVITIES**

*Mentoring*:

10/2018 ‒ present Co-supervision of **B.Sc. students** (@UNIPV: Nicoletta F.; @UvA: Perry v.d.H., Volkert D.), **M.Sc.** **students** (@UNIPV: Lorenzo Q., Roberto T.; @UvA: Walter V.; Robin M.) and **PhD students** (@UvA: Ting W., Stefano B., Antonio P., Lukasz C., Dimitris, I., Jonas D., Morgan R., Clara V.)

*Teaching*:

02/2023 **Lecturer** for Prof. Timothy Noël: the main focus of the course was on the impact of flow chemistry on photochemistry and electrochemistry. Work load: 10 hours of active teaching and mentoring + corrections of exams (ca. 5 hours). Total work load: 15 hours.

03/2016 ‒ 06/2020 Supervision of **students in** **lab and theoretical courses** (more than 150 hours as tutor or giving seminars for the Inorganic Chemistry, Organic Chemistry Laboratory I and II and Organic Chemistry courses for the Bachelor’s Degree in Chemistry and Biotechnology at the University of Pavia).

07/2016 & 07/2017 Teaching activity for **high-school students** within the frame of PLS (Piano Lauree Scientifiche), a project meant to make them approach to chemistry. Students were awarded by the PLS committee for their outstanding activity both times.

*Seminars:*

20/06/2023 *“*Organic photochemistry in continuous-flow*”:* the main focus of the course was to introduce Ph.D students at the University of Pavia to flow chemistry. Work load: 2 hours. Contact person: Prof. Davide Ravelli, University of Pavia.

27/03/2023 “Pushing the Boundaries of Photocatalyzed Synthesis: Merging Methodology And Technology”, invited presentation at the University of Tor Vergata. *I was invited by Prof. Massimo Bietti to give this talk in the form of a seminar.*

24/02/2023 & 03/03/2023 *“*Photochemistry & photocatalysis: how to?”: the main focus of the course was to introduce Ph.D students at the University of L’Aquila to photochemistry and photocataysis for synthetic purposes. Work load: 4 hours. Contact person: Prof. Armando Carlone, University of L’Aquila.

16/09/2022 “Pushing the Boundaries of Photocatalyzed Synthesis by Merging Methodology And Technology”, online presentation for the University of Parma. *I was invited by Prof. Giovanni Maestri to give this talk to MSc and PhD students.*

03/12/2021 “Synthetic Photoelectrochemistry: the dawn of a new alliance in organic synthesis”, online presentation for the University of L’Aquila. *I was invited by Prof. Armando Carlone to give this talk to MSc and PhD student.*

**Co-promotor** of Roberto T. (MSc thesis), Lorenzo Q. L. (MSc thesis), Ting W. (PhD thesis)

* **REVIEWER & EDITORIAL EXPERIENCE**

*As an editor*:

* Assistant Editor for the Journal of Flow Chemistry (Springer and Akademia Kiado).
* Guest editor for the 2023 Special Issue "Emerging Investigators in Flow Chemistry" on *J. Flow. Chem.*

*As a reviewer:*

* 34 verified reviews - Web of Science ResearcherID: X-3549-2019
* **ORGANIZATION OF CONFERENCES**

24-25/09/2021 **ETOC** – Enabling Technologies for Organic Synthesis. *The first edition of the ETOC Symposium took place on February 24-25, 2022 in a fully digital setting and counted 486 attendees. It brought scientists from all over the world together to share their knowledge in the field of organic chemistry and technology utilization. The program was developed around different crucial topics, such as photoredox catalysis, electrochemistry, machine learning and biocatalysis, among others.*

* **CONTRIBUTIONS TO CONFERENCES**

*As invited speaker:*

11-14/12/2022 “Photoinduced Halogen-Atom Transfer (XAT) by N-heterocyclic Carbene Boryl Radicals for C−C Bond Formation” at the **11th Singapore International Chemistry Conference (SICC-11)**, Singapore (SG). *I was invited by Prof. Jie Wu to give this talk in the format of a keynote presentation.*

23-24/09/2021 “Novel Photocatalytic Approaches for Ecosustainable Synthesis” at **Giornate Italiane di**

**Fotochimica del Gruppo Italiano di Fotochimica**, online symposium. *I was invited to give this talk as a recipient of Premio Ugo Mazzucato for the best Italian PhD Thesis in Photochemistry in 2019/20.*

07/10/2020 “Uranyl Cation as a Visible Light Photocatalyst for C-C Bond Formation via HAT” at **SCI Giovani Award Ceremony**, online symposium. *I was invited to give this talk when I was awarded the Primo Levi Award for my work on the photochemistry of the uranyl dication.*

08-12/09/2019 “The Triangle of Photocatalysis: Different Approaches for Ecosustainable Synthesis” at “**XXXIX Convegno Nazionale della Divisione di Chimica Organica della Società Chimica Italiana**”, Torino (IT).

*I was invited to give this talk when I was awarded the Best Ph.D. thesis Award in Organic Chemistry for its Methodological Aspects. This is the most relevant national meeting of the Organic Chemistry Division of the Italian Chemical Society.*

05/07/2019 “Novel Photocatalytic Approaches for Ecosustainable Synthesis” at “**VII Workshop Nazionale Gruppo Interdivisionale Green Chemistry – Chimica Sostenibile, Società Chimica Italiana**”, Padova (IT).

 *I was invited to give this talk because I was one of the finalists for the Green Chemistry Award 2019.*

*As oral presentations:*

26-30/06/2022 “Continuous-flow as an enabling technology for photocatalyzed Hydrogen Atom Transfer” at “**3rd International Conference on Hydrogen Atom Transfer**”, Monteporzio Catone (IT).

07-08/12/2021 “Regioselective and scalable C−H functionalization via flow photocatalysis” at “**NWO Chains 2021**”, online conference.

22-24/11/2021 “Decatungstate-mediated C(sp3)–H heteroarylation via radical-polar crossover in batch and flow” at “**Merck Young Chemists' Symposium 2021**”, Rimini (IT).

03-06/11/2020 “Antimony–Oxo Porphyrins as Photocatalysts for Redox-Neutral C–H to C–C Bond Conversion” at “**ViSYOChem2020**”, online symposium.

09-13/06/2019 “Uranyl Cation as Visible-Light Photocatalyst for C-C Bond Formation via Hydrogen Atom Transfer” at “**ISOS2019 - "A. Corbella" International Summer School on Organic Synthesis**”, Gargnano (IT).

*I was awarded a travel grant to attend this School and won the Best Oral Presentation by both the Audience and the Scientific Committee. This is one of the most prestigious International Summer Schools on Organic Chemistry held in Italy. I was also the leader of one group (5 persons) in the problem session (>12 groups) that was awarded the third place.*

19-21/11/2018 “Uranyl Cation as Visible-Light Photocatalyst for C-C Bond Formation via Hydrogen Atom Transfer” at “**Merck & Elsevier Young Chemists Symposium 2018**”, Rimini (IT).

14-16/12/2017 “Antimony-oxo Porphyrins as Visible-Light Photocatalysts for Hydrogen Atom Transfer (HAT) Reactions in Organic Synthesis” at “**Italian Photochemistry Meeting 2017**”, Perugia (IT).

25-27/10/2016 “Smooth Photocatalyzed Benzylation of Electrophilic Olefins via Decarboxylation of Arylacetic Acids” at “**Merck Young Chemists Symposium 2016**”, Rimini (IT).

*As poster presentations:*

25-26/05/2023 “Unleashing Decatungstate: Lighting Up C(sp3)–H Amination with a High-Intensity LED-Fueled Flow Reactor” at “**Flow Chemistry Europe 2023**”, Hinxton (UK).

24-26/06/2019 “Uranyl Cation as Visible-Light Photocatalyst for C-C Bond Formation via Hydrogen Atom Transfer” at “**UK-IT Joint Meeting on Photochemistry 2019**”, Lipari (IT).

02-06/07/2017 “Vinylpyridines Alkylation Triggered by Decatungstate Photocatalyzed Hydrogen Atom Transfer (HAT)” at “**2nd International Conference on Hydrogen Atom Transfer**”, Monteporzio Catone (IT).

*As a chair person:*

12-13/10/2022 CHAIR winter school on Flow Chemistry

26-30/06/2022 3rd International Conference on Hydrogen Atom Transfer

* **SCHOOLS & WORKSHOPS**

24-25/11/2019 School – “SCI\*C - Scuola in Comunicazione della Chimica”, Rimini – *Travel Grant*

30/09/2019 Workshop – “Le Giornate di Chimica Organica a Pavia”, Pavia

05/07/2019 Workshop – “VII Workshop Nazionale Gruppo Interdivisionale Green Chemistry”, Padova

09-14/06/2019 School – “"A. Corbella" International Summer School on Organic Synthesis”, Brescia – *Travel Grant*

26/11/2018 Workshop – “Nuovi orientamenti in Chimica Organica”, Milan

11/10/2018 Workshop – “Le Giornate di Chimica Organica a Pavia”, Pavia

11/10/2017 Workshop – “Le Giornate di Chimica Organica a Pavia”, Pavia

02/02/2017 Workshop – “I Giganti della Fotochimica”, Bologna

06-10/06/2016 School – “7° Corso Nazionale di Introduzione alla Fotochimica”, Bologna

10/05/2016 Workshop – “Tissue repair: from biochemical mechanisms to formulation approaches”, Pavia

* **DISSEMINATION ACTIVITY**

01/02/2020 ‒ 11/02/2020 Involved in the ***Alchimica*** *– La chimica degli esplosivi* project at Scientific High School “Niccolò Copernico” in Pavia (IT). ***Alchimica*** *– La chimica degli esplosivi* is a project meant to explain youngsters the nature, classification and chemistry of explosives. This project was the result of individual initiative. Audience: ~250 persons.

24/09/19 Held a presentation at Palazzo del Broletto, Pavia (IT) on the occasion of the International Year of the Periodic Table entitled “La Tavola Periodica: il “trip” di Mendeleev” within the **European Researchers’ Night 2019** event. Audience: ~100 persons.

20/02/2019 ‒ 06/03/2019 Involved in the ***Nuova Chimica*** *– Everyday Chemistry* project at Scientific High School “Galileo Galilei” in Voghera (IT). *Nuova Chimica – Everyday Chemistry* is a project meant to introduce youngsters to everyday chemistry. This project was the result of individual initiative. Audience: ~200 persons.

18/02/2019 ‒ 28/02/2019 Involved in the ***Nuova Chimica*** *– La chimica in cucina* project at Scientific High School “Niccolò Copernico” in Pavia (IT). *Nuova Chimica – La chimica in cucina* is a project meant to introduce youngsters to food chemistry. This project was the result of individual initiative. Audience: ~250 persons.

26/09/18 Held a presentation at Palazzo del Broletto, Pavia (IT) entitled “Il gulfatto: come interagiscono gusto e olfatto” within the **European Researchers’ Night 2018** event. Audience: ~60 persons.

24/09/2017 ‒ 23/12/2017 Took part to the Universitiamo (www.universitiamo.eu) **crowdfunding** campaign *Light and Chemistry:* *Partners in the fight against Tumors* proposed by PhotoGreen Lab and promoted by the University of Pavia. Role: Member of the research group and co- organizer of fundraising events (Autunno Pavese: 24/09/17; Notte dei ricercatori: 29/09/17; Scienza in Piazza: 21/10/17; Live by *C’esco e i Musicanti di Brahma* for PhotoGreen Lab: 29/10/17; Pavia Lirica: 13/12/17; DAGDA Live Club – Concert by *MotelNoire*: 23/12/17).

26/10/17 ‒ 05/11/17 Expo at Museo Luzzati, Genova (IT) presenting experiments designed to explain the importance of light in everyday life to teenagers in the frame of the **Festival della Scienza** event.

27/11/17 ‒ 11/12/17 Involved in the *Nuova Chimica* project at Scientific High School “Niccolò Copernico” in Pavia (IT). ***Nuova Chimica***is a project meant to introduce youngsters to non- traditional approaches to chemistry, such as photochemistry. This project was the result of individual initiative. Audience: ~200 persons.

* **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

2023 – present Member of the American Chemical Society

2023 – present Member of the Flow Chemistry Society (**Board of Directors** - Publication & Journal Committee)

2016 – present Member of the Italian Society of Chemistry (SCI)

2016 – present Member of the “Italian Group of Photochemistry” (GIF)

2016 – present Member of the “European Photochemistry Association” (EPA)

In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned decree.

 Date Signature



Sept 02nd, 2023 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**LIST OF PUBLICATIONS**

ORCID ID: *0000-0001-7114-267X* Scopus ID: *57190816188* WoS: *X-3549-2019*

**Citations**: 1659 **H index**: 18 (Source: Google Scholar)

**●** first author **●** corresponding author

1. R. Costa e Silva, C. Vega, M. Regnier, L. Capaldo, L. Wesenberg, G. Lowe, K. Thiago de Oliveira, T. Noël

“Electrosynthesis of Aryliminophosphoranes in Continuous Flow”

*Adv. Synth. Catal.* **2023**

DOI: 10.1002/adsc.202300635

1. L. Capaldo●, Z. Wen, T. Noël

“*A field guide to flow chemistry for synthetic organic chemists*”

*Chem. Sci.* **2023**,*14*, 4230–4247

DOI: 10.1039/D3SC00992K

1. T. Wan, **L. Capaldo**●, D. Ravelli, W. Vitullo, F. J. de Zwart, B. de Bruin, T. Noël

“*Photoinduced Halogen-Atom Transfer by N-heterocyclic carbene-ligated boryl radicals for C(sp3)−C(sp3) bond formation*”

*J. Am. Chem. Soc.* **2023**, *145*, 991–999

DOI: 10.1021/jacs.2c10444

1. A. Luridiana, D. Mazzarella, **L. Capaldo**, J. A. Rincón, P. García-Losada, C. Mateos, M. O. Frederick, M. Nuño, W. J. Buma, T. Noël

“*The Merger of Benzophenone HAT Photocatalysis and Silyl Radical-Induced XAT Enables Both Nickel-Catalyzed Cross-Electrophile Coupling and 1,2-Dicarbofunctionalization of Olefins*”

*ACS Catal.* **2022**, *12*, 11216–11225

DOI: 10.1021/acscatal.2c03805

1. F. F. Özgen, A. Jorea, **L. Capaldo**, R. Kourist, D. Ravelli, S. Schmidt

“*The Synthesis of Chiral γ-Lactones by Merging Decatungstate Photocatalysis with Biocatalysis*”

ChemCatChem **2022**, *14*, e202200855

DOI: 10.1002/cctc.202200855

1. S. Bonciolini, T. Noël, **L. Capaldo**●

“*Synthetic applications of Photocatalyzed Halogen-radical mediated Hydrogen Atom Transfer for C−H bond functionalization*”

*Eur. J. Org. Chem.* **2022**

DOI: 10.1002/ejoc.202200417

1. **L. Capaldo**●, T. Noël, D. Ravelli

“*Photocatalytic generation of Ligated Boryl Radicals (LBRs) from tertiary amine-borane complexes: an emerging tool in organic synthesis*”

*Chem. Catal.* **2022**, *2*, 957−966

DOI: 10.1016/j.checat.2022.03.005

1. **L. Capaldo**●, S. Bonciolini, A. Pulcinella, M. Nuno, T. Noël

“*Modular allylation of C(sp3)−H bonds by combining decatungstate photocatalysis and HWE olefination in flow*”

*Chem. Sci.* **2022**, *13*, 7325−7331

DOI: 10.1039/D2SC01581A

1. T. Wan, Z. Wen, G. Laudadio, **L. Capaldo**, R. Lammers, J. A. Rincón, P. García-Losada, C. Mateos, M. O. Frederick, R. Broersma, T. Noël

“*Accelerated and Scalable C(sp3)–H Amination via Decatungstate Photocatalysis Using a Flow Photoreactor Equipped with High-Intensity LEDs*”

*ACS Cent. Sci.* **2022**, *8*, 51−56

DOI: 10.1021/acscentsci.1c01109

1. R. Tinelli, D. Ravelli, A. Basso, S. C. Tarantino, **L. Capaldo**●

“*Catalyst-free [2+ 2] photocycloadditions between benzils and olefins under visible light*”

*Photochem. Photobiol. Sci* **2022**, *21*, 695−803.

DOI: 10.1007/s43630-021-00129-4

1. **L. Capaldo●**, D. Ravelli, M. Fagnoni

“*Direct Photocatalyzed Hydrogen Atom Transfer (HAT) for Aliphatic C–H Bonds Elaboration*”

*Chem. Rev.* **2022**, *122*, 1875–1924

DOI: 10.1021/acs.chemrev.1c00263

1. T. Wan, **L. Capaldo**, G. Laudadio, A. V. Nyuchev, J. A. Rincón, P. García-Losada, C. Mateos, M. O. Frederick, M. Nuño, T. Noël

“*Decatungstate‐mediated C(sp3)‒H Heteroarylation via Radical‐Polar Crossover in Batch and Flow*”

*Angew. Chem. Int. Ed.* **2021***, 60,* 17893–17897

DOI: 10.1002/ange.202104682

1. S. O. Scholz, J. B. Kidd, **L. Capaldo**, N. E. Flikweert, R. M. Littlefield, T. P. Yoon

“*Construction of Complex Cyclobutane Building Blocks by Photosensitized [2 + 2] Cycloaddition of Vinyl Boronate Esters*”

*Org. Lett.* **2021**, *23*, 3496–3501

DOI: 10.1021/acs.orglett.1c00938

1. **L. Capaldo●**● and D. Ravelli

“*Decatungstate as Direct Hydrogen Atom Transfer Photocatalyst for SOMOphilic Alkynylation*”

*Org. Lett.* **2021**, *23*, 2243–2247

DOI: 10.1021/acs.orglett.1c00381

1. **L. Capaldo●**, L. L. Quadri, D. Merli, D. Ravelli

**“***Photoelectrochemical Cross-Dehydrogenative Coupling of Benzothiazoles with Strong Aliphatic C–H Bonds*”

*Chem. Commun.* **2021**, *57*, 4424–4427

DOI: 10.1039/D1CC01012C

1. **L. Capaldo●**, M. Ertl, M. Fagnoni, G. Knör and D. Ravelli

**“***Antimony-Oxo Porphyrins as Photocatalysts for Redox-Neutral C–H to C–C Bond Conversion*”.

*ACS Catal.* **2020**, *10*, 9057–9064

DOI: 10.1021/acscatal.0c02250

1. **L. Capaldo●**, L. L. Quadri and D. Ravelli

“*Photocatalytic hydrogen atom transfer: the philosopher's stone for late-stage functionalization?*”

*Green Chem.* **2020**, *22*, 3376–3396

DOI: 10.1039/D0GC01035A

1. **L. Capaldo●**●and D. Ravelli “*The Dark Side of Photocatalysis: One Thousand Ways to Close the Cycle*”

*Eur. J. Org. Chem.* **2020**, 2783–2806

DOI: 10.1002/ejoc.202000144

1. T. Basile, **L. Capaldo**, D. Ravelli and Paolo Quadrelli

“*Photocatalyzed Generation of Nitrosocarbonyl Intermediates Under Solar Light Irradiation*”

*Eur. J. Org. Chem.* **2020**, *2020*, 1443–1447

DOI: 10.1002/ejoc.201900596

1. **L. Capaldo●**, L. L. Quadri, D. Ravelli

“*Merging Photocatalysis with Electrochemistry: The Dawn of a new Alliance in Organic Synthesis*”

*Angew. Chem. Int. Ed.,* **2019**, *58*, 17508–17510

DOI: 10.1002/anie.201910348

1. C. Raviola, **L. Capaldo** and D. Ravelli

“*A tan for molecules: photocatalyzed synthesis with direct sunlight*”

*Rend. Lincei-Sci. Fis.,* **2019**, *30*, 485–495

DOI: 10.1007/s12210-019-00826-4

1. A. Aliprandi, **L. Capaldo**, C. Bobica, S. Silvestrini and L. De Cola

“*Effects of the Molecular Design on the Supramolecular Organization of Luminescent Pt(II) Complexes*”

*Isr. J. Chem.* **2019***, 59,* 892–897

DOI: 10.1002/ijch.201900047

1. **L. Capaldo****●**, D. Merli, M. Fagnoni and D. Ravelli

“*Visible Light Uranyl Photocatalysis: Direct C–H to C–C Bond Conversion*”

*ACS Catal.,* **2019***, 9,* 3054–3058

DOI: 10.1021/acscatal.9b00287

1. **L. Capaldo****●**, D. Ravelli

“*Alkoxy Radicals Generation: Facile Photocatalytic Reduction of N-Alkoxyazinium or Azolium Salts*”

*Chem. Commun.* **2019**, *55*, 3029-3032

DOI: 10.1039/C9CC00035F

1. **L. Capaldo●**, R. Riccardi, D. Ravelli and M. Fagnoni

“*Acyl Radicals from Acylsilanes: Photoredox-Catalyzed Synthesis of Unsymmetrical Ketones*”

*ACS Catal.* **2018**, *8*, 304-309

DOI: 10.1021/acscatal.7b03719

1. **L. Capaldo●**, S. Garbarino, S. Protti, M. Fagnoni, and D. Ravelli

“*Processi fotocatalitici via anione decatungstato per la sintesi organica*”

La Chimica e l’Industria online, ANNO I, n°2, Marzo/Aprile **2017**

DOI: 10.17374/CI.2017.99.2.48

1. **L. Capaldo●**, M. Fagnoni and D. Ravelli

“*Vinylpyridines as Building Blocks for the Photocatalyzed Synthesis of Alkylpyridines*”

*Chem. Eur. J.* **2017**, *23*, 6527-6530

DOI: 10.1002/chem.201701346

1. **L. Capaldo●** and D. Ravelli

“*Hydrogen Atom Transfer (HAT): A Versatile Strategy for Substrate Activation in Photocatalyzed Organic Synthesis*”

*Eur. J. Org. Chem.* **2017**, 2056-2071

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