CURRICULUM VITAE
SCIENTIFIC AND TEACHING ACTIVITY

PROF. DARIO PASINI, PhD

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Work address

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Personal informations, education and professional positions

Born in Brescia (Italy) on the 10th December 1967 (age: 56). Nationality: Italian. Languages spoken: Italian (mother tongue), English (fluent), French (good knowledge).

Education

1993-1996 ***Ph.D. in Chemistry***, School of Chemistry, ***University of Birmingham***, Birmingham, UK. Doctoral Advisor: ***Prof. Sir J. Fraser Stoddart*** (Nobel Prize in Chemistry 2016). Thesis Title: *Chiral Molecular Assemblies and Supramolecular Arrays*. Research topics: supramolecular chemistry, chirality, functional nanoscale assemblies, organic synthesis. The PhD fellowship was funded by the pharmaceutical company Glaxo Wellcome, and for the last 8 months by research funds in the availability of Prof. Stoddart.

1986-1992 ***MSc (Laurea) in Chemistry*** (top marks), Department of Organic Chemistry, ***University of Pavia***, Pavia, Italy. Final year experimental Project (Thesis) Title: *Solvent Effect in the Retro-Diels Alder Reaction*. Supervisor: ***Prof. G. Desimoni***. Research topics: physical organic chemistry, organic synthesis.

Professional Positions

2022-today ***Full Professor***, Scientific Sector: CHIM/06 Organic Chemistry, Department of Chemistry, ***University of Pavia***, Pavia, Italy

2015-2021 ***Associate Professor***, Scientific Sector: CHIM/06 Organic Chemistry, Department of Chemistry, ***University of Pavia***, Pavia, Italy

2003-2015 ***Tenured Assistant Professor***, Scientific Sector: CHIM/06 Organic Chemistry, Department of Organic Chemistry and then (since 2010) Department of Chemistry, ***University of Pavia***, Pavia, Italy

2000-2003 ***Assistant Professor***, Scientific Sector: CHIM/06 Organic Chemistry, Department of Organic Chemistry, ***University of Pavia***, Pavia, Italy

1997-1999 ***Postdoctoral Fellow*** in the group of ***Prof. Jean J. M. Fréchet*** at the ***University of California, Berkeley***, Berkeley, USA. Research topics: design, synthesis and investigation of functional macromolecules for advanced microlithography; polymer synthesis and characterization, organic synthesis. The postdoctoral fellowship was funded by US research funds in the availability of Prof. Fréchet.

1992-1993 ***Short postgraduate fellowship*** awarded by the University of Pavia for a six months research period abroad. The PI carried out research in the group of Dr M H Abraham at ***University College London***, UK. Research topic: physical organic chemistry.

Visiting professorships

2004-2005 One-year sabbatical stay as a visiting scientist in the group of ***Prof. Stefan Matile***, Department of Organic Chemistry, ***University of Geneva***, Geneva, Switzerland. Research topics: molecular recognition and sensing with synthetic multifunctional pores. The stay was supported by research funds in the availability of Prof. Matile.

2/2011 One month visiting professorship in the group of ***Prof. Linda Shimizu***, Department of Chemistry and Biochemistry, ***University of South Carolina,*** Columbia, USA. The short stay was funded by the award of a Journal Travel Grant for International Authors of the Royal Society of Chemistry. Research topics: chiral macrocycles.

7-8/2019 Two months visiting professorship in the group of ***Prof. Timothy M. Swager*** at the ***Massachusetts Institute of Technology***, Boston, USA. The short stay was funded by the award of a fellowship within the Pavia-Boston Program (2019) of the University of Pavia. Research topics: conjugated organic materials.

Scientific achievements track record

The research activities developed in the last 10 years in Pavia, carried out as the principal investigator, can be summarized in three different yet intertwining sectors: ***a) chiral nanostructures for (chir)optical sensing; b) controlled polymer synthesis for functional applications; c) π-conjugated organic materials. a)*** We have developed several supramolecular receptors for the recognition and chiroptical sensing of several interesting organic and inorganic species; using the characteristic CD signature of the enantiopure binaphthyl chromophore, it has been demonstrated how the CD signalling of the analyte can be orthogonal with respect to other spectroscopic techniques. This concept has been utilized more recently for the realization of complex structures capable of translating the overall stereochemical information contained in cyclodextrins into stimuli-responsive chiroptical properties. The overall scientific activity on chiral systems was recognized internationally with the realization of two very prestigious reviews on different aspects of emerging chiral materials. ***b)*** We have developed, in combination with modern techniques for controlled/living free radical polymerization, block and/or graft polymeric architectures for functional applications. Amongst those, we mention PLA-polymethacrylate star copolymers for applications as viscosity modifiers, and the postfunctionaliztion of □-PGA, a bacterial polymer, through a graft-on approach through "click chemistry" reactions. The oxyanionic ring-opening polymerization of propylene oxide (PO) from an exogenous alcohol activated with benign (complexed) metal-alkali carboxylates has been described. ***c)*** The sustainability and scalability of the synthesis of semiconductor polymers is necessary for an effective technology transfer in the new generation photovoltaic field. Innovative monomers have been developed by rapid annulation procedures through the combination of direct arylations/aldol condensations. The results are still strongly developing in collaboration with ENI, with exciting results (not yet published) in terms of OPV cells efficiencies from the sustainable and scalable monomers and polymers. An innovative series of "push-pull" conjugated organic chromophores has been synthesized and studied, with extremely interesting properties from the point of view of the emissive properties in the solid state (AIE properties), which are being developed as Luminescent Solar Concentrators.

Main scientific current collaborators. David Amabilino (ICMAB Spain) for chiral nanostructures and OPV, Dominique Armspach (University of Strasbourg) for chiroptical receptors based on modified cyclodextrins, Luca Beverina (University of Milano Bicocca) for green approaches to organic semiconductors, Chiara Botta (CNR Milan) for photophysical characterization of conjugated materials and Aggregation Induced Emission materials, Nadia Camaioni (CNR Bologna) for OPV, Gianmarco Griffini (Milan Polytechnic) for luminescent solar concentrators, Giuseppe Mattioli (CNR Rome) for computational studies, Matteo Rapisarda (CNR Rome) for characterization of conjugated materials for OFET, Tim Swager (MIT) for π-conjugated materials, Riccardo Po (ENI) and Gabriele Bianchi (ENI) for organic photovoltaics, Giulio Assanelli (ENI) for green and supramolecular polymers as viscosity modifiers, Valeria Amendola (UINPV) for supramolecular cages and chiroptical sensors, Daniele Dondi and Ferdinando Auricchio (UNIPV) for 3D printing, Eliana Quartarone (UNIPV) for self-healing materials.

2.2 Bibliometric indexes (as of 6/6/2024)

Total publications: **158**
Publications with impact factor: **140**
Other publications/proceedings: **11**
Book chapters: **5**
Patents: **2**

Publications as corresponding author: **94**
Publications as single author: **4**

ORCID: http://orcid.org/0000-0002-8273-3798
ResearcherID: H-5628-2011
Google Scholar: https://scholar.google.it/citations?user=Suxj-fkAAAAJ&hl=it
Total citations: **4187** (google scholar), **3628** (scopus), **3583** (web of science)
H index: **42** (google scholar), **41** (scopus), **40** (web of science)

i-10 index: **98** (google scholar)

Since 2019 (google scholar)
Citazioni totali: **1873**
H index: **24**
i10-index: **57**

Research Publications in brief: *Nature Mater.* (1), *Adv. Mater* (2), *JACS* (3), *Angew. Chem. Int. Ed.* (1), *Adv. Optical Mater.* (1), *ACS Appl. Mater. Interfaces* (2), *Chem. Mater.* (2), *J. Mater. Chem. C* (3), *Chem. Commun.* (5), *Org. Lett.* (4), etc.

Awards

Awards and prizes given to the PI

*1) Recipient of a 2020 Gutenberg Chair, University of Strasbourg (France)(*link*)*
Gutenberg Chairs are organized by the local authorities of the French "Alsace" region on the suggestion of the Cercle Gutenberg upon external reviewing. The duration of the Chair can be up to two years and its recipients receive the following: a) The Gutenberg Prize, worth 10.000 Euro, given personally, to facilitate the Chair recipient to settle in Strasbourg when needed; and b) specific financial help of 50.000 Euro attributed to the host institution and reserved entirely for the execution of their research project. The PI will develop a research project entitled: "*Development of Chiroptical Sensors Derived from Cyclodextrins for the Analysis of Hydrophobic and Amphiphilic Organic Pollutants in Water*" in collaboration with Professor Dominique Armspach of the University of Strasbourg. The prize was highlighted by the University of Pavia news website (link) and by the National Interuniversity Consortium of Materials Science and Technology (INSTM) (newsletter no.1/2020)

2*) Recipient of the Fondo di Finanziamento Attività Base di Ricerca (FFABR MIUR 2018)*
The unrestricted research grant (3.000 Euro) was awarded to the top 25% associate professors in each scientific sector in Italy in 2018, after a selection procedure based exclusively on bibliometric indexes (impact factor of publications, citations, number of authors).

3) *Fellow of the Royal Society of Chemistry (2017-)*
Election to Fellow of the Royal Society of Chemistry in 2017. Eligibility for Fellow status applies to applicants who are Members of the Royal Society of Chemistry (MRSC), with a minimum of 5 years professional experience. The procedure involves nomination and peer reviewing. PIs must have made an outstanding contribution to the advancement of the chemical sciences.

4) *Journals Grant for International Authors of the Royal Society of Chemistry (2011)*
The award is given by the Royal Society of Chemistry to authors of RSC publications who have been distinguished themselves as corresponding authors. The procedure involves peer reviewing. It is to allow international authors to visit other countries in order to collaborate in research, exchange research ideas and results, and to give or receive special expertise and training. The PI spent a period of research at the University of South Carolina, USA.

Awards related to publications of the PI

Publications highlighted

1) *Crystengcomm* **2020***, 22,* 7782-7785**,** highlighted as editor's choice in the special issue *Halogen Bonding*
2) *J. Am. Chem. Soc.* **2017**, *139*, 8788-8791 included in the 2018 *JACS Young Investigators Virtual Issue*. The PI is corresponding author.
3) *Faraday Discuss.* **2017**, *196*, 143-161 highlighted in *Chem. Commun.* **2017**, *53*, 3158-3164. The PI is corresponding author.
4) *Org. Biomol. Chem.* **2015**, *13*, 3593-3601. Highlighted as "Organic Biomolecular Chemistry Hot Paper 2015". Web of Science "Highly cited paper" in 2015. The PI is corresponding author.
5) *J. Phys. Chem. C* **2015**, *119*, 19228-19235. Included in the "Elettra Highlights 2015-2016 booklet".

6*) J. Phys. Chem. C* **2013**, *51*, 27161-27166. Highlighted by: "Noteworthy Chemistry", an electronic newsweekly by the American Chemical Society.
7) *Phys. Chem. Chem. Phys.* **2011**, *13*, 18005-18014. Highlighted by: "Noteworthy Chemistry", an electronic newsweekly by the American Chemical Society.
8) *Org. Biomol. Chem.* **2011**, *9*, 5018-5020 Highlighted as: "Top 10 downloaded article" in July 2011. The PI is corresponding author.
9) *Nature Mat.* **2007**, *6*, 577-580. Commented by: J.J. Lavigne, *Nature Mat.* **2007**, *6*, 548-549

Publications featured as Covers of the journal issue
1) *Chem. Eur. J.* **2023**, *29*, e2023023 (Cover).
2) *Macromol. Rapid Comm*. **2022**, *43*, 2200424 (Cover).
3) *Chem. Commun.* **2022**, *58*, 3897-3900 (Back cover). Corresponding author.
4) *Adv. Mater.* **2020**, 1908021 (Frontispiece). Corresponding author.
5) *Polym. Chem.* **2020**, 11, 5582-5589 (Cover). Corresponding author.
6) *Chem. Commun.* **2016**, *52*, 11492-11495 (Cover). Corresponding author.
7) *Org. Biomol. Chem.* **2011**, *9*, 5018-5020 (Cover). Corresponding author.
8) *Org. Biomol. Chem.* **2010**, *8*, 1807-1815 (Inside Cover). Corresponding author.
9) *CrystEngComm* **2008**, *10*, 1132-1136 (Inside Cover).
10) *Curr. Org. Synth.* **2007**, *4*, 59-80 (Permanent Cover from 2007 to 2014). Corresponding author.
11) *Adv. Funct. Mat.* **2006**, *16*, 169-179 (Cover).
12) *Eur. J. Org. Chem.* **2002**, 3385-3392 (Cover). Corresponding author.
13) *J. Polym. Sci. A: Polym. Chem.* **1999**, *37*, 1225-1236 (Cover).

2.4 Research grants received by the PI as Principal Investigator
The PI has received funding from competitive, peer reviewed calls from international institutions, including two projects funded by the European Commission, for a total of **193 kEuro**. The PI has been the PI of the local units of 3 PRIN projects and of 6 other national research projects, for a total of over **370 kEuro**. Alongside with competitive research grants and institutional UNIPV funding, the PI also attracted over **600 KEuro** from industrial funding. Most of the industrial funding has been given on research contracts and has allowed the creation of fellowships for young scientists. Most of the industrial grants come from a strong collaboration with ENI (over **490 kEuro** granted to the PI), including funding for four full PhD positions (two starting October 2020). The overall total funding received by the PI as the PI amount to over **1,43 Meuro**, considering also the direct internal support given by the University of Pavia under various forms, amounting to a total of **117 kEuro**.

2.5 Invited seminars/scientific presentations at congresses.
37 invited talks at national and international meetings, and at US and European institutions, amongst which: 1 keynote lecture (*Supramol 2015*, XII National Congress of Supramolecular Chemistry), and invited talks to Namur (Belgium), Eindhoven (Holland), South Carolina (USA), Miami (USA), Geneva (Switzerland), Jerusalem (Israel).

2.6 Membership of the Editorial Board of scientific publications
1) *Materials* (MDPI) 2021-present. Impact factor of the journal: **3,62**
2) *Nanomanufacturing* (MDPI) 2020-present. Impact factor della rivista: **pending**
a) *International Journal of Molecular Sciences (MDPI)*, 2018-presente. Impact factor della rivista: **5,92**
b) *Journal of Chemistry (Hindawi)*, 2012-presente. Impact factor della rivista: **2,51**
c) *AIMS Materials Science*, 2017- 2019
d) *Mediterranean Journal of Chemistry*, 2011-present
e) *The Open Condensed Matter Physics Journal (Bentham Open)*, 2008-2011

f) *Quantum Biosystems*, 2007-2011

2.7 Refereeing activity.

-For scientific journals (ca. 60 papers per year):

publications of all major publishers: Springer Nature (*Nature Chem.*), RSC (including *Chem. Commun., Nanoscale, Chem. Soc. Rev., Polym. Chem.*), Wiley (*Angew. Chem. Int. Ed.*, *Adv. Mater.*, *Eur. J. Org. Chem., Chem. Eur. J., Small*), ACS (*J. Am. Chem. Soc., Macromolecules, J. Org. Chem.*), Elsevier, Bentham. For a certified record of refereeing, see link

-For scientific agencies:

- MUR*:* member of the 03/C1 panel for the National Habilitation Qualification Committee (2023-2025)
- ANVUR, Italy (VQR 2004-2010, VQR 2011-2014; PON Dottorati Innovativi 2018; Accreditamento Iniziale AVA 2019 and 2020, Accreditamento Periodico AVA 2022)
- MIUR, Italy (FIRB Futuro in Ricerca 2010 e Preselezione 2012; PRIN 2012; FARE 2016);
- European Research Agency (European Commission). During the HORIZON 2020 framework: HORIZON-WIDERA-2022-TALENTS-01 – ERA Chairs; Marie Curie PF actions (IF 2014-2023); Independent Observer Progress Evaluation Project RISE (2017); Progress Evaluator Project FET-Open (2020). During the FP7 framework: Marie Curie actions (IOF, IIF, IEF) 2013
- EEA Grants (2018-2020), Romania
- other grants (Romania)
- Research Foundation Flanders (FWO) (2015-2018), Belgium
- La Caixa Foundation (2018 and 2023), Spain
- Regione Campania (2018-2020), Italy
- University of Marseille (2017), France
- KU Leuven (2015-2017), Belgium
- Portuguese Foundation for Science and Technology (2012 and 2013), Portugal
- Faculty of Arts and Sciences, American University of Beirut (2009), Lebanon
- Università di Napoli Federico II, Finanziamento della Ricerca di Ateneo (2023)
- ICMAB DocFam+ (2023), Spain
- MSCA COFUND (2023), Physics for Future, Czech Republic
- DFG (Germany

Track record of research supervision

3.1 Supervision of research collaborators.

Supervision of MSc students (40), postgraduate students (14), PhD students (9), postdocs (6), visiting PhD students (1) and visiting professors (2). The list, relevant funding informations, thesis titles can be found in section 9.

3.2 Awards to research collaborators supervised by the PI

a) Andrea Nitti, one of the 10 finalists for the “Primo Levi” prize (2017) of the Young Chemists Section of the Italian Chemical Society, as the author of one of the best 10 publications in the Chemical Sciences

b) Peshawa Osw, Thieme Chemistry Poster Prize, poster presented at the *20th IUPAC International Symposium on Organometallic Chemistry Directed Towards Organic Synthesis*, Heidelberg, Germany, 21-25 July 2019

3.3 Fellowship awarded to group members on external funding

a) Carmine Coluccini (6 months, 2007, Sovvenzione Globale Ingenio, Regione Lombardia)

b) Stefano Colombo (6 months, 2007-2008, Fondo Sociale Europeo, Regione Lombardia)

c) Claudio Cornaggia (5 months, 2008, Fondo Sociale Europeo, Regione Lombardia)

d) Arvind Sharma (2/2009-1/2010: INDIA-MIUR fellowship)

Teaching activity

The PI was involved in teaching at the PhD level giving a 2 hours course entitled: *Organic Photovoltaics*, within the course *New Frontiers in Photovoltaics: Materials and Technologies* organized by Giulia Grancini (2020-2021).
The PI has taught (2002-present) several courses at the BSc and MSc level: Organic Chemistry, Macromolecular Chemistry and Industrial Organic Chemistry for Chemistry, Engineering, and Biotechnology degrees.

2002-2004	Industrial Organic Chemistry (BSc in Chemistry, 6 credits)
2006-2009	Industrial Organic Chemistry (BSc in Chemistry, 6 credits)
2011-2017	Industrial Organic Chemistry (BSc in Chemistry, 6 credits)
2010-present	Organic Chemistry (MSc in Bioengineering, 3 credits)
2012-present	Polymers for Biotechnologies (MSc in Advanced BIotechnologies, 6 credits)
2015-present	Chemistry and Technology of Polymers (MSc in Chemistry, 6 credits)

Student satisfaction index (recent data).
a) Industrial Organic Chemistry (BSc in Chemistry, 6 credits): **8,73/10** (a.a.2016-2017).
b) Organic Chemistry (MSc in Bioengineering, 3 credits): **7,70/10** (a.a.2016-2017)
c) Polymers for Biotechnologies (MSc in Advanced BIotechnologies, 6 credits): **9,50/10** (a.a.2016-2017)
d) Chemistry and Technology of Polymers (MSc in Chemistry, 6 credits) **9,18/10** (a.a.2016-2017)
More data are reported in section 12

Teaching in Foreign Institutions:
8 h PhD course at the University of Miami (USA), through ERASMUS Mobility Agreement, Staff Mobility For Teaching. Subject taught: "π-Conjugated Semiconducting Organic Polymers: Structure, Synthesis and Applications" (2023)

Institutional activity and service to the department

1) Member of the "Collegio Docenti" of the PhD School of Chemical and Pharmaceutical Sciences of the University of Pavia (2013-2018).
2) Member of the "Collegio Docenti" of the PhD School of Chemical and Pharmaceutical Sciences and Industrial Innovation of the University of Pavia (2016-present).
3) Delegate in the working group (4 professors) for the preparation of the proposal for the Departments of Excellence (MIUR call 2017)
4) Coordinator of the MSc course in Industrial Biotechnologies (10/2013-12/2013)
5) Representative of the Department of Chemistry in CIRSIS (Centro Interdipartimentale di Studi e Ricerche sui Sistemi di Istruzione Superiore) of the University of Pavia (2010-present)
6) Coordinator of the SOBANE project, related to safety in working environment (2010-2013): the project consisted in a specific training for the coordinator, and in periodic meetings with representatives of all working figures within the section of Organic Chemistry of the Department
7) Member of several internal committees (including Giunta del Dipartimento, 3 years) within the former Department of Organic Chemistry (up to 2010)
8) Qualified PI for GEV composition 2015- 2019.(Delibera ANVUR n°13523/7/2020)
9) Coordinator of the Project "Laurea Magistrale Plus" for the MSc degree in Chemistry at the University of Pavia (2022-present).

Other relevant activities

Membership of national chemical societies

Member of the Royal Society of Chemistry (2000-present)
Member of the Italian Chemical Society (2005-present)
Member of the American Chemical Society (until 2016)

Participation to PhD examining committees

PhD examinations (in presence)

1) Miriam Crespo, 2/2009, Dipartimento di Chimica Inorganica ed Analitica, University of Cagliari

2) Paolo Brazzo, Department of Science and Technology of Materials, University of Milano Bicocca, 3/2018

3) Giovanni Fortunato (POLIMI), 1/2021

PhD external examiner (remotely)

1) Martina Nardi (Department of Chemistry, University of Roma la Sapienza) 11/2018

2) Alessandro Sanzone (Department of Science and Technology of Materials, University of Milano Bicocca) 11/2018

3) Mauro Adiel Calascibetta (Department of Science and Technology of Materials, University of Milano Bicocca) 1/2021

5) Sara Mecca (Department of Science and Technology of Materials, University of Milano Bicocca) 2/2023

6) Irene Antignano (Department of Chemistry, University of Roma la Sapienza) 3/2023.

Organization of conferences and journal special issues

1) 23/11/2009: Organization of the one day symposium, "Le giornate di Chimica Organica 2009", Department of Organic Chemistry, University of Pavia. The theme of the symposium was: "Functional Organic Nanomaterials". The following scientists accepted my invitation to give a lecture: Prof. J. M. J. Fréchet (Unversity of California, Berkeley), Prof. Maurizio Prato (Università di Trieste); Prof. Giuseppe Resnati (Politecnico di Milano), Prof. Stefan Matile (University of Geneva)

2) Organization of several seminars within the Department of Chemistry, amongst which: David Amabilino (Nottingham), Linda Shimizu (University of North Carolina), Ken Shimizu (University of North Carolina), Kelly Velonia (University of Crete), Davide Bonifazi (University of Namur), Amitav Sanyal (Bogazici University, Instanbul)

3) Guest editor for the special issues of International Journal of Molecular Sciences (MDPI) entitled: "*Synthesis, Processing and Applications of Conjugated Oligomers and Polymers*" (link); Synthesis, Processing and Applications of Conjugated Oligomers and Polymers 2.0"

Participation to renowned conferences

1) Participation to a Gordon Research Conference (*Supramolecules & Assemblies, Chemistry of*; Colby College, June 2009)

2) Participation (invited) to the Royal Society of Chemistry Faraday Discussion Aggregation Induced Emission (November 2016, Guangzhou, China)

7 Complete list of publications

The asterisk denotes corresponding author(s).

158. *One-Handed Covalent Helical Ladder Polymers: The Dawn of a Tailorable Class of Chiral Functional Materials*, G. Preda,* **D. Pasini,*** *Angew. Chem. Int. Ed.* **2024**, *63*, e202407495.

157. *Solvent-free thiol-Ene/-Yne click reactions for the synthesis of alkoxysilyl telechelic poly(propylene oxide)s*, C. Fornaciari, F. Invernizzi, A. Galbiati, **D. Pasini,*** *React. Funct. Polym.* **2024**, *200*, 10593.

156. *Triptycene-based diiron(II) mesocates: spin-crossover in solution*, R. Mobili, G. Preda, D. Dondi, E. Monzani, D. Vadivel, C. Massera, **D. Pasini**, V. Amendola,* *Chem. Commun.* **2024**, *60*, 5522–5525.

155. *Homoconjugation and Tautomeric Isomerism in Triptycene-Fused Pyridylbenzimidazoles*, G. Preda, R. Mobili, D. Ravelli, V. Amendola, **D. Pasini,*** *J. Org. Chem*. **2024**, *89*, 5690–5698.

154. *C_2-Symmetrical 3,4-Ethylenedioxythiophene Monomers through a Divergent Approach*, A. Martinelli, A. Nitti, R. Po, **D. Pasini**,* *J. Org. Chem.* **2024**, *89*, 4237–4243.

153. *Synthesis of 2,6-Diaminotriptycene Conjugates with Chiral Auxiliaries: Towards the Scalable Resolution of Crucial Triptycene Intermediates*, G. Preda, E. Casali, A. Porta, **D. Pasini**,* *Symmetry* **2024**, *16*, 116.

152. *Solution-Processable Thin-Film Transistors from Anthradithiophene (ADT) and Naphthothiopene (NT) Small Molecule-Based p-Type Organic Semiconductors*, A. Nitti, M. Scagliotti, L. Beverina, L. Mariucci, M. Rapisarda,* **D. Pasini**,* *Mater. Adv.* **2023**, *4*, 4590-4597.

151. *Enabling Stereochemical Communication and Stimuli-Responsive Chiroptical Properties in Biphenyl-Capped Cyclodextrins*, G. Preda, S. Jung, G. Pescitelli, L. Cupellini, D. Armspach,* **D. Pasini**,* *Chem. Eur. J.* **2023**, *29*, e2023023. **(Cover)**

150. *Activation of Solid-State Emission and Photostability through Molecular Confinement: The Case of Triptycene-Fused Quinacridone Dyes*, G. Preda, A. Aricò, C. Botta, D. Ravelli, D. Merli, S. Mattiello, L. Beverina, **D. Pasini**,* *Org. Lett.* **2023**, 25, 6490–6494.

149. *Synthesis, Processing and Applications of Conjugated Oligomers and Polymers 2.0*, **D. Pasini**,* S. Zapotoczny,* *Int. J. Mol. Sci.* **2023**, *24*, 11623.

148. *3D Printing of Layered Structures of Metal-Ionic Polymers: Recent Progress, Challenges and Opportunities*, A. Martinelli, A. Nitti, R. Po, **D. Pasini**,* *Materials* **2023**, *16*, 5327.

147. *Quasi-alternating copolymerization of oxiranes driven by a benign acetate-based catalyst*, C. Fornaciari, V. Lemaur, **D. Pasini,*** O. Coulembier,* *Comm. Chem.* **2023**, *6*, 235.

146. *Polylactic-Containing Hyperbranched Polymers through the CuAAC Polymerization of Aromatic AB_2 Monomers*, A. Pacini, A. Nitti, M. Vitale, **D. Pasini**,* *Int. J. Mol. Sci.* **2023**, 24, 7620.

145. *Anthradithiophene (ADT)-Based Polymerized Non-Fullerene Acceptors for All-Polymer Solar Cells*, G. Forti, R. M. Pankow, F. Qin, Y. Cho, B. Kerwin, I. Duplessis, A. Nitti, S. Jeong, C. Yang, A. Facchetti,* **D. Pasini**,* T. J. Marks,* *Chem. Eur. J.* **2023**, *29*, e2023006.

- Invited Contribution to the joint Special Collection in honor of Maurizio Prato.

144. *Supramolecular Weaving by Halogen-Bonding in Functionality-Rich Hexasubstituted Aromatic Synthons*, M. Catenazzi, A. Nitti, M. Boiocchi, G. Bianchi, R. Po, **D. Pasini**,* *Materials* **2023**, *16*, 1678

143. *HPLC Enantioseparation of Rigid Chiral Probes with Central, Axial, Helical, and Planar Stereogenicity on an Amylose (3,5-Dimethylphenylcarbamate) Chiral Stationary Phase*, S. Rizzo, T. Benincori, F. Fontana, **D. Pasini**, R. Cirilli,* *Molecules* **2022**, 27, 8527.

142. *Cross-Linked Gel Electrolytes with Self-Healing Functionalities for Smart Lithium Batteries*, S. Davino, D. Callegari, D. Pasini, M. Thomas, I. Nicotera, S. Bonizzoni, P. Mustarelli, * E. Quartarone,* *ACS Appl. Mater. Interfaces* **2022**, *14*, 51941–51953.

141. *An Anthradithiophene Donor Polymer for Organic Solar Cells with a Good Balance between Efficiency and Synthetic Accessibility*, G. Bianchi, C. Carbonera, L. Ciammaruchi,* N. Camaioni, N. Negarville, F. Tinti,* G. Forti, A. Nitti,* **D. Pasini**, A. Facchetti, R. M. Pankow, T. J. Marks, R. Po, *Sol. RRL* **2022**, *6*, 2200643.

140. *Single-Chain Polymer Nanoparticles for Addressing Morphologies and Functions at the Nanoscale: A Review*, A. Nitti, R. Carfora, G. Assanelli, M. Notari, **D. Pasini**,* *ACS Appl. Nano Mater.* **2022**, *5*, 13985−13997.

- Invited Contribution to the Special Issue dedicated to Sir Fraser Stoddart on the occasion of his 80th birthday.

139. *3D printing of conductive organic polymers: challenges and opportunities towards dynamic and electrically responsive materials*, A. Martinelli, A. Nitti, G. Giannotta, R. Po, **D. Pasini**,* *Mater. Today Chem.* **2022**, *26*, 101135.

- Invited Contribution to the Special Issue dedicated to Sir Fraser Stoddart on the occasion of his 80th birthday.

138. *On the Dynamics of the Carbon–Bromine Bond Dissociation in the 1-Bromo-2-Methylnaphthalene Radical Anion*, M. Bonechi, W. Giurlani, M. Innocenti,* **D. Pasini**, S. Mishra, R. Giovanardi, C. Fontanesi,* *Molecules* **2022**, *27*, 4539.

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48. *Molecular Recognition by Synthetic Multifunctional Pores in Practice: Are Structural Studies Really Helpful?*, Y. Baudry, G. Bollot, V. Gorteau, S. Litvinchuk, J. Mareda, M. Nishihara, **D. Pasini**, F. Perret, D. Ronan, N. Sakai, M. R. Shah, A. Som, N. Sordé, P. Talukdar, D.-H. Tran, S. Matile,* *Adv. Funct. Mat.* **2006**, *16*, 169-179. **(Cover)**.

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44. *C_2 Symmetrical Double Chromophores: Cooperativity Effects in Lanthanide Ion Complexation*, **D. Pasini**,***** P. P. Righetti,***** M. Zema, *Org. Biomol. Chem.* **2004**, *2*, 1764-1769.

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42. *Supramolecular Self-Assembly of Fibres*, **D. Pasini**,***** A. Kraft, *Curr. Opin. Solid State Mat. Sci.* **2004**, *8*, 157-163.

41. *Cyclopolymers as Liquid Membrane Carriers,* E. Cagnoni, **D. Pasini**,***** A. Galbiati, M. Ricci, P. P. Righetti, *Macromolecules* **2003**, *36*, 8894-8897.

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28. *Molecular Meccano, 38. - Enantioselective Differentiation in the Self-Assembly of [2]Pseudorotaxanes*, M. Asakawa, H. M. Janssen, E. W. Meijer,***** **D. Pasini**, J. F. Stoddart,***** *Eur. J. Org. Chem.* **1998**, 983-986.

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23. *Axially-Chiral Catenanes and π-Electron Deficient Receptors*, M. Asakawa, P.R. Ashton, S. E. Boyd, C. L. Brown, S. Menzer, **D. Pasini**, J.F. Stoddart,***** M. S. Tolley, A. J. P. White, D. J. Williams, P. G. Wyatt, *Chem. Eur. J.* **1997**, *3*, 463-481.

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20. *Self-Assembling Catenanes and Rotaxanes*, **D. Pasini**, F. M. Raymo, J .F. Stoddart,***** *Gazz. Chim. It.* **1995**, *125*, 431-443.

19. *Solvent Effect as the Result of Frontier Molecular Orbital Interaction. VII. The Retro-Diels-Alder Reaction*, G. Desimoni,***** G. Faita, **D. Pasini**, P. P. Righetti, *Tetrahedron* **1992**, *48*, 1667-1674.

Patents:

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17. *Anthradithiophene derivatives, process for the preparation thereof and polymers that contain them*, G. Bianchi, **D. Pasini**, A. Nitti (Assignee Eni SpA, Italy). Patent no. **WO 2019175367**. Granted: Sep 19, 2019

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16. *Graft copolymers from poly (γ-glutamic acid): Innovative macromolcular scaffolds for additive manufacturing from renewable natural resources*, C. L. Zaccaria, V. Cedrati, A. Pacini, A. Nitti, **D. Pasini,*** *Advanced Materials and Processes for RF and THz Applications (IMWS-AMP), 2017 IEEE MTT-S International Microwave Workshop Series on. Date of Conference: 20-22 Sept. 2017*. DOI: 10.1109/IMWS-AMP.2017.8247415

15. *Lithographic Evaluation of a Novel Family of Carbon-Rich Cyclopolymers for 193 nm Microlithography*, J.M. Klopp, **D. Pasini**, J.M.J. Fréchet,***** J.D. Byers *Proc. SPIE* **2000**, *3999*, 23-31.

14. *Cyclopolymerization in the Design of Resist Materials*, J. M. J. Fréchet,*** D. Pasini**, E. Low, R. Meagley, J. Niu, *Polym. Mat. Sci. Eng.* **1999**, *80*, 487-488.

13. *Carbon-Rich Cyclopolymers: Their Synthesis, Etch Resistance, and Application to 193 nm Microlithography*, **D. Pasini**, E. Low, R. P. Meagley, J. M. J. Fréchet,***** C. G. Willson, J. D. Byers, *Proc. SPIE* **1999**, *3678*, 94-101.

12. *Positive and Negative Tone Water Processable Photoresists: A Progress Report*, S. Yamada, D. Medeiros, K. Patterson, W.-L. K. Jen, T. Rager, Q. Lin, C. Lenci, J. D. Byers, J. M. Havard, **D. Pasini**, J. M. J. Fréchet,***** C. G. Willson *Proc. SPIE* **1998**, *3333*, 245-253.

11. *The Design and Study of Water-Soluble Positive- and Negative-Tone Imaging Materials*, J. M. Havard, **D. Pasini**, J. M. J. Fréchet,***** D. Medeiros, S. Yamada, K. Patterson, C. G. Willson *Proc. SPIE* **1998**, *3333*, 111-121.

10. *Design of a Positive-Tone Water Soluble Resist*, J. M. Havard, **D. Pasini**, J. M. J. Fréchet,***** C. G. Willson, *Polym. Mat. Sci. Eng.* **1997**, *77*, 424-425.

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Book chapters:

8. *Chiral acenes - synthesis and applications*, A. Nitti,* G. Preda, **D. Pasini**,* in *Chiral Building Blocks in Asymmetric Synthesis*. Wojaczynska, E.; Wojaczynski, S. (Eds.): Wiley, **2022**, pp. 551-582.

7. *Push-Pull AIEgens*, A. Nitti,* **D. Pasini,*** in *Handbook of Aggregation-Induced Emission - Volume 3*, Chapter 22;, B. Z. and Tang, Y., Eds.; Wiley, **2022**, Volume 1, pp. 575-608.

6. *Design and Preliminary Studies of Environmentally Enhanced Water-Castable, Water-Developable Positive Tone Resists: Model and Feasibility Studies*, J. M. Havard, **D. Pasini**, J. M. J. Fréchet,***** D. Medeiros, S. Yamada, C. G. Willson *ACS Symp. Ser.* **1998**, *706* (Micro and Nanopatterning Polymers); Ito, H.; Reichmanis, E.; Nalamasu, O.; Ueno, T. Eds.; pp. 262-275.

5. *Linear vs. Crosslinked Macromolecules as Supports for Biocatalyzed Transformations: Recent Developments*, **D. Pasini**,* *Inorganic Biochemistry: Research Progress,* Hughes, J. G. and Robinson, A. J. Eds.; Nova Science Publishers, **2008**: pp. 1-10.

4. *Click Chemistry and Macrocycles*, **D. Pasini**,* in "*Click Reactions in Organic Synthesis*", S. Chandrasekaran, Ed.; Wiley, **2016**, pp. 287-307.

Refereed Papers without Impact factor:

3. *Acentric Nanostructured Assembly as a Strategy for the Design of Organic Electrooptic Materials*, C. Coluccini, **D. Pasini**,* *Open Condensed Matter Physics Journal* **2008**, *1*, 7-12 (Invited Editorial Board Member Contribution).

2. *Counting at the Nanoscale: Molecules performing Simple Logic Operations*, **D. Pasini**,* *Quantum Biosystems* **2007**, *1*, 74-79 (Invited Editorial Board Member Contribution).

Divulgative Papers without Impact factor:

1. *Black gold in state-of-the-art photovoltaics*, Andrea Nitti, **Dario Pasini**, *About Oil*, ENI magazine, published online 17/6/2015.

8 List of invited seminars/oral presentations

39) 23/4/2023 *Organic Photovoltaic Materials: Decreasing Synthetic Complexity through Scalable "Cascade" Approaches*, Materials Research Society Spring 2024 Meeting, *Symposium: EN03: Sustainability of Emerging Photovoltaics*, Seattle (USA). Invited speaker.

38) 20/10/2023 *Chiroptical Sensing with Molecular and Supramolecular Assemblies*, Department of Chemistry, University of Strasbourg, Strasbourg, France (host: D. Armspach)

37) 1/5/2023 *Chiroptical Sensing with Molecular and Supramolecular Assemblies*, Invited Lecture, Stoddart Molecular-cum-Supramolecular Science (M3S) Symposium, Hangzhou, China.

36) 12/9/2022 *Chiroptical Sensors from Rigid, C_2-Symmetrical Molecular Scaffolds,* Oral Communication, XL Convegno Nazionale della Divisione di Chimica Organica, Palermo, Italy.

35) 21/7/2022 *Push-Pull" Molecular Architectures: From Supramolecularly Polarizable Chromophores to Aggregation-Induced Emissive Properties,* Invited Lecture, Second International Conference on Noncovalent Interactions, Strasbourg, France

34) 27/5/2021 *Chiroptical Sensing and Chiral Nanostructures from Binaphthyl-Based Molecular Modules,* Invited Seminar for the PhD School in Chemistry, University of Strasbourg, Strasbourg, France (done remotely)

33) 14/8/2019 *Chiral, Polymeric and Conjugated Organic Materials*, Swager group seminar series, Department of chemistry, Massachusetts Institute of Technology, Boston, USA

32) 22/8/2018 *Chiroptical Sensing and Chiral Nanostructures from Binaphthyl-Based Molecular Modules*, Xu group seminar series, Jangnan University - Wuxi – China

31) 27/6/2017 *From Chiral Catenanes to Chiral Nanostructures, Polymers and Conjugated Materials,* A Golden Age for Chemistry A celebration of the Stoddart's group Golden Jubilee, Nottingham, UK

30) 18/11/2016 *Structure-Activity Relationships for the Solid State Emission of a New Family of "Push-Pull" π-Extended Chromophores,* Faraday Discussions, Guangzhou, China.

29) 29/9/2015 *Chiroptical Sensing and Chiral Nanostructures from Binaphthyl-Based Molecular Modules*, Keynote Lecture, XII Congresso Nazionale di Chimica Supramolecolare, Messina, Italy.

28) 11/6/2015 *Biomateriali Micro e Nanostrutturati per l'Ingegneria Tissutale derivati da un Polimero Batterico Emergente*, Final Meeting INSTM-Regione Lombardia 2013-2015, one of the six selected Projects for the final presentation.

27) 19/6/2014 *Chiroptical Sensing and Chiral Nanostructures from Binaphthyl-Based Molecular Modules*, CHIRITALY, Pisa, Italy.

26) 27/6/2013 *Macromolecular and Macrocyclic Architectures as Functional Materials, Consiglio Nazionale delle Ricerche*, Istituto di Struttura della Materia, Roma, Italy.

25) 15/3/2013 *Poli(γ-glutammato): bioproduzione di un polimero ecocompatibile e sua derivatizzazione in materiali per il packaging attivo di alimenti (GAMMA-PGA)*, Final Meeting INSTM-Regione Lombardia 2010-2012 Projects

24) 15/11/2012 *"Push-pull" π-extended chromophores with coordinative ends: supramolecular polarization, sensing and aggregation-induced emission*, ISMAC Workshop 2012 dedicated to Alberto Bolognesi, ISMAC-CNR, Milano, Italy

23) 13/1/2012 *Novel Macrocyclic and Polymeric Architectures: Towards Functional Nanomaterials*, Dipartimento di Chimica Organica e Biologica, University of Messina, Italy (host: G. Gattuso)

22) 3/2/2011 *Novel Macrocyclic and Polymeric Architectures: Towards Functional Nanomaterials*, Department of Chemistry and Biochemistry, University of South Carolina, U.S.A (host: L. Shimizu)

21) 24/11/2010 *Novel Macrocyclic and Polymeric Architectures: Towards Functional Nanomaterials*, Institute for Complex Molecular Systems, Eindhoven University of Technology, Netherlands (host: E. W. Meijer)

20) 5/5/2010 *Cyclic Organic Molecules and Polymers: Towards Functional Nanomaterials*, Department of Chemistry, University of Namur, Belgium (host: D. Bonifazi)

19) 8/12/2009 *Cyclic Organic Molecules and Polymers: Towards Functional Nanomaterials*, Department of Chemistry, University of Miami, U.S.A. (host: F. M. Raymo)

18) 8/7/2009 *Cyclopolymerization as a Tool for the Synthesis of Functional Macromolecular Materials*, 13th International IUPAC Conference on Polymers and Organic Chemistry, Montreal, Canada.

17) 3/6/2009 *Styrene-Based Copolymers as Soluble Platforms for the Biocatalytic Transformation of Organic Substrates with Immobilized Enzymes*, Active Pharmaceutical Ingredients from Bioprocesses: from research to industrial and regulatory issues (APIB09, 1st International Symposium and Advanced Course), University of Pavia, Pavia, Italy.

16) 27/3/2009 *Cyclic Organic Molecules and Polymers: Towards Functional Nanomaterials*, Le giornate di Chimica Organica, Department of Organic Chemistry, University of Pavia, Pavia, Italy.

15) 27/11/2007 *Cyclopolymerization as a Tool for the Synthesis of Functional Materials*, Department of Chemistry, Bogazici University, Istanbul, Turkey (host: D. Avci)

14) 23/2/2007 *Novel Macrocyclic and Polymeric Architectures: Towards Functional Supramolecular Materials?*, CNR-INFM Nanostructures and Biosystems at Interfaces, Modena, Italy (host: L. Berti)

13) 17/6/2005 *Bioorganic Chemistry of Rigid-Rod Molecules*, NRP 47 final meeting, Murten, Switzerland.

12) 5/5/2005 *Optically-active macrocycles as sensors and as precursors for helical tubular structures*, PRIN workshop, University of Bologna, Italy (host: D. Braga)

11) 6/2/2004 *Supramolecular and Macromolecular Architectures via Lanthanide Ion Complexation and Cyclopolymerizations*, University of Geneva, Switzerland (host: S. Matile)

10) 10/9/2002 *Novel Macromolecular and Supramolecular Architectures via a Cyclopolymerization Approach*, Euresco Conference on High Performance Fibers, Bad Herrenalb, Germany.

9) 14/11/2000 *Nuovi Polimeri per Litografia a 193 nm*, Department of Organic Chemistry Research Seminars, University of Pavia, Italy.

8) 31/10/2000 *Novel Polymer Architectures for Advanced Microlithography*, Department of Organic Chemistry, Hebrew University of Jerusalem, Jerusalem, Israel (host: I. Willner)

7) 14/9/1999 *Carbon Rich Cylopolymers for 193 nm Microlithography*, Resist Advisory Group Meeting, SEMATECH, Austin, Texas, USA.

6) 15/3/1999 *Carbon-Rich Cyclopolymers: Their Synthesis, Etch Resistance, and Application to 193 nm Microlithography*, SPIE's 24th International Symposium on Microlithography, Santa Clara, California, USA.

5) 21/8/1997 *Water-Soluble Water-Processable Resists*, Semiconductor Research Corporation Progress Review, University of California at Berkeley, Berkeley, California, USA.

4) 17/1/1997 *Sistemi Supramolecolari Chirali,* Istituto di Chimica delle Macromolecole, Consiglio Nazionale delle Ricerche, Milano, Italy (host: G. Audisio)

3) 30/4/1996 *Chiral Supramolecular Assemblies*, School of Chemistry Research Seminar, University of Birmingham.

2) 20/11/1994 *Towards Axially-Chiral □-Electron Deficient Supramolecular Receptors*, Glaxo Medicinal Chemistry Symposium Organized by the Medicinal Chemistry 2 Section, Glaxo Research and Development Centre, Greenford, London.

Outreach/Expert talks:

1) 27/1/2015 *Testimonianza di un valutatore di progetti Marie Curie* (FP7 – IEF -2013; H2020 - IF - 2014), INFO DAY: Opportunità per ricercatori, Università dell'Insubria, Varese.

9 Research collaborators

Fixed Time Researcher

1) Andrea Nitti (2/2022-now: PON funds green 2/2022/12/2022; PNRR Seal of Excellence, directly hired 1/2023-now)

Visiting Professors

1) Prof. Douglas Vander Griend (Calvin College, Grand Rapids, MI- USA): 9/2009-2/2010, self-supporting

2) Dr. Mohamed Yahia (Helwan University, Cairo, Egypt): 1/2017-3/2017, CICOPS fellowship

Postdoctoral fellows

1) Marina Ricci (technician of the Department of Organic Chemistry, part time research in the group, 2003)

2) Carmine Coluccini (5/2006-8/2009: cofunding MIUR-Ateneo 5/06-6/07, Sovvenzione Globale Ingenio 7/07-12/07, CARIPLO Funds, 1/2008-8/2009)

3) Arvind Sharma (2/2009-1/2010: INDIA-MIUR fellowship)

4) Marco Caricato (11/2010-12/2012: 11/10-10/11 UNIPV fellowship; 11/11-10/12: ALMAMATER 50%- INSTM 50%; 11/12-12/12: INSTM-Regione Lombardia)

5) Aurora Pacini (3/2016-9/2017: IVM contract 3/2016-2/2017; INSTM-Regione Lombardia 3/2017-9/2017)

6) Andrea Nitti (11/2016-1/2022: UNIPV postdoctoral fellowship type A; INSTM fellowship; PRIN fellowship)

7) Giovanni Preda (11/2022-now: INSTM fellowship UNIPV postdoctoral fellowship type A)

PhD Students

1) Marco Caricato (2007-2010, MIUR fellowship). Thesis title: *Macrocicli Chirali per il Sensing e l'Assemblaggio di Nanostrutture*

2) Andrea Nitti (2013-2016; ENI fellowship). Thesis title: *Innovative Macromolecular Systems for Organic Photovoltaic Applications*

3) Giacomo Forti (2018-2021; ENI fellowship). Thesis title: *Sustainable Donor and Acceptor Components for Organic Photovoltaic Cells*

4) Giovanni Preda (2019-2022: various funds). Thesis title: *Chiral π-Conjugated Organic Materials*

5) Angelo Martinelli (2020-2023: ENI fellowship). Thesis title: *Organic Materials Composed of Semiconductor Polymers Printed by Light-Based 3d-Printing*

6) Raffaele Antonio Carfora (2020-2023: ENI fellowship). Thesis title: *Innovative Viscosity Modifiers for Energy efficient Lubricants*

7) Charlotte Fornaciari (2020-2023, with Olivier Coulembier: INPS fellowship). Thesis title: *Functional Polyethers by Combining Oxyanionic Ring-Opening Polymerization and Click Chemistry*

8) Chaima Ben Ammar (2022-2025: ENI fellowship)

9) Dario Fontana (2022-2025: ENI fellowship)

Visiting PhD Students

1) Peshawa Osw (cosupervised with M. N. Abdullah), Salahaddin University-Erbil (Iraq) (3/2018-9/2019: self-supporting)

Postgraduate students with short-term fellowships

1) Federica Spiaggia (3 months, 2003, Fondo Ateneo di Ricerca);

2) Alberto Moletti (6 months, 2005, PRIN);

3) Antonio Castelluccio (8 months, 2006, PRIN);

4) Seda Edizer (3 months, visiting from Turkey, 2007, self-supporting);

5) Stefano Colombo (6 months, 2007-2008, Fondo Sociale Europeo);
6) Claudio Cornaggia (5 months, 2008, Fondo Sociale Europeo).
7) Giovanni Borghese (7 months, 2010, INSTM-Regione Lombardia)
8) Nerea Jordana Leza (12 months, 2014-2015, NPT contract,)
9) Ameneh Arabi (8 months, visiting from Iran, 11/2015-6/2016, self-supporting)
10) Louis Onuigbo (9 months, 10/2017-6/2018, INSTM-Regione Lombardia)
11) Stefano Piacentini (6 months, 1/2019-6/2019; 1/2019-5/2019, self-supporting. 6-2019, INSTM)
12) Matteo Catenazzi (10-11/2019: INSTM fellowship; 12/2019-10/2020: ENI OdL fellowship)
13) Luca Angelo Betti (5/2022-9/2022: ENI OdL fellowship)
14) Deborah Di Stefano (10/2022-6/2023: Erasmus traineeship in the laboratory of Prof. Antxon Martinez De Ilarduia at the UPC Barcelona)

MSc (ca. 9 months research internship) *The asterisk denotes undegraduates who are coauthors of scientific publications. If not otherwise indicated, the students were enrolled for the MSc degree program in Chemistry. The cosupervisor, if present, is indicated in parenthesis*

1) Valerio Rossi (2001, with P. Righetti, Thesis title: *Primi Studi di Polimeri con Potenziali Proprietà Ottiche Non Lineari da Macrocicli a Carattere "Push-Pull"*)*****
2) Enrique Blazquez (2002, ERASMUS, with P. Mustarelli: *Sintesi di Nuovi Ciclopolimeri come Materiali per Batterie al Litio*)*****
3) Emanuela Cagnoni (2002, with P. Righetti: *Ciclopolimeri a Base di Malonati Corona Semplici e Funzionalizzati*)*****
4) Federica Spiaggia (2003, with L. Garlaschelli: *Nuovi Addotti Fullerenici Supramolecolari Dimerici e Polimerici*)*****
5) Barbara Veronesi (2004, did not graduate but completed her internship)*****
6) Ilaria Pianetti (Chemical and Pharmaceutical Technologies; 2003, with M. Pregnolato: *Idrolisi Enzimatica di Esteri Supportati su Polimeri Solubili a Base Stirenica*)*****
7) Marco Filippini (Chemical and Pharmaceutical Technologies; 2006, con M. Pregnolato: *Idrolisi mediante PGA Immobilizzata di Ligandi Esterei su Fase Solida Stirenica*)*****
8) Alberto Moletti (2005, with A. Taglietti: *Dispositivi Molecolari Basati sul BINOL*)*****
9) Ivet Kosta (2004, ERASMUS, with P. Mustarelli: *Nuovi Approcci a Polimeri Reticolati di Tipo Supramolecolare e a Polimeri per Celle a Combustibile*)
10) Marco Parachini (2004, with P. Righetti: *Ciclopolimeri e Ciclocopolimeri come Leganti per la Complessazione di Metalli Lantanidici*)*****
11) Luca Genovesi (2008: *Sintesi ed Applicazioni di Polimeri Biodegradabili*)
12) Alessandro Olmo (2010: *Applicazioni della "Click Chemistry" nella Sintesi di Macrocicli Chirali*)*****
13) Alberto Bugana (2010: *Sintesi di PPV Modificati con Unità Aromatiche Elettron Ricche ed Elettron Povere Alternanti*)*****
14) Matteo Montanari (2010: *Approcci Sintetici Innovativi per la Preparazione di Paraciclofandieni*)*****
15) Nerea Jordana Leza (2011, ERASMUS, with Marco Caricato: *Macrocicli Chirali per il Sensing e l'Assemblaggio di Nanostrutture*)*****
16) Silvia Diez-Gonzales (2012, ERASMUS, with Marco Caricato: *Macrocicli Chirali per il Sensing e l'Assemblaggio di Nanostrutture*)*****
17) Aurora Pacini (2012, with Marco Caricato: *γ-PGA e Polilattico: Funzionalizzazione di Polimeri Naturali per Bioplastiche Ecosostenibili*)*****
18) Federico Debattista (2013: *Sintesi di Polimeri PPV con Unità Alternanti Donor-Acceptor*)*****
19) Idoia Arandia Ariño (2013, ERASMUS, 4 months, with Marco Caricato: *Macrocicli Chirali per il Sensing e l'Assemblaggio di Nanostrutture*)*****

20) Luca Beria (2013, ERASMUS, with Amitav Sanyal, Bogazici University—Turkey: *Chemical Modification of Natural and Artificial Polymers for the Synthesis of Functional Biomaterials and Hydrogels*)*****

21) Marco Agnes (2014, with David Amabilino, ICMAB Barcelona—Spain: *Synthesis of BINOL-Based Building Blocks for Selective Complexation and Chiral Macrocycle Formation*)*****

22) Sara Benedini (2014: *Sintesi di Cromofori "Push-Pull" come "Aggregation-Induced Emissive Materials" e per il Sensing di Lantanidi"*)*****

23) Fabio Invernizzi (2014, with Andrea Nitti: *Sintesi di [2.2]paraciclofani e [2.2]paraciclofandieni via Pummerer rearrangement e sulfur extrusion*)*

24) Nicolò Ferri (2014: *Sintesi e Ciclopolimerizzazione di Monomeri Stirenici Difunzionali*)*

25) Valeria Cedrati (2015: *Sintesi di Derivati e Copolimeri Graft dell'Acido Poli-γ-Glutammico mediante Click Chemistry*)*

26) Marco Signorile (2016, with Andrea Nitti: *Sintesi di Sistemi Molecolari □-Coniugati tramite Reazioni di Arilazione Diretta Intramolecolare*)*****

27) Erica Maggioni (Chemical and Pharmaceutical Technologies; 2016, with Ida Genta: *Studi Preformulativi Preliminari per la Realizzazione di un Idrogelo Termosensibile Destinato ad una Somministrazione Intra-articolare*)

28) Luis De Verastegui (2016-2017, ERASMUS, 10 months, with Andrea Nitti: *Synthesis of Innovative Anthradithiophene Monomers and AIE Chromphores for Clean Energy Applications*)

29) Cristiana Ludovica Zaccaria (Advanced Biotechnologies, 2018: *Synthesis and Biocompatibility of Graft Derivatives from Poly(γ-Glutamic Acid)*)*

30) Giuseppe Calcagno (2018, with Andrea Nitti: *Synthesis of a Library of π-Extended Organic Compounds via a Cascade Cross Aldol-Direct Arylation Approach)******

31) Matteo Catenazzi (2019: *Sistemi Policiclici π-Coniugati tramite Arilazione Diretta per il Fotovoltaico Organico*)*

32) Samuele Colombi (2020: *Sintesi e caratterizzazione di polimeri con capacità di self-healing per batterie Li-ione*)*

33) Eliana Manobianco (Advanced Biotechnologies, 2020: *Sintesi di poli-amminoacidi via Ring-Opening Polymerization di N-carbossi anidridi)*

34) Charlotte Fornaciari (Advanced Biotechnologies, 2020: *Sintesi di omopolimeri e copolimeri random mediante Ring Opening Polymerization di N-carbossianidridi di α-amminoacidi*)

35) Matteo Cabras (Engineering, 2021, with Chiara Botta: *Sintesi di omopolimeri e copolimeri random mediante Ring Opening Polymerization di N-carbossianidridi di α-amminoacidi*)

35) Enrico Magnani (Advanced Biotechnologies, 2021, with Andrea Nitti: *Sintesi di materiali organici coniugati mediante reazioni a cascata*)

36) Matteo Suman (Advanced Biotechnologies, 2022, with Angelo Martinelli: *Sintesi di nuovi PEDOT-DA per applicazioni nella stampa SLA 3D*)

35) Alessia Zafferano (Advanced Biotechnologies, 2022, with Andrea Nitti: *Funzionalizzazione dell'acido Poli-γ-Glutammico Tramite Reazioni di Click Thiol-Ene*)

36) Gabriele Falessi (Advanced Biotechnologies, 2022: *Sintesi di Omopolimeri mediante ROP di N-Carbossi Anidridi di α-aminoacidi e Copolimeri Graft dell'Acido γ-poliglutammico tramite Click Chemistry*)

37) Andrea Murgia (2023, with Andrea Nitti: *Funzionalizzazione di biopolimeri mediante la chimica del legame covalente dinamico*)

38) Giada Riboli (Advanced Biotechnologies, 2023, with Raffaele Carfora: *Polimerizzazioni controllate di metacrilati mediante RAFT per applicazioni funzionali*)

39) Simone Lanati (with Andrea Nitti and Angelo Martinelli: *Sintesi di Luminofori AIE a Base di Tiofeni Aril-Sostituiti*)

40) Alessio Bianchi (2023, with Giovanni Preda: *Merging Acridone with Triptycene Moieties: a new synthetic approach for high performance, spatially-confined π-conjugated dyes*)

41) Elisa Ciccarello (2023, with Giovanni Preda): *Sintesi e Caratterizzazione di Materiali Organici Chirali π-Coniugati*

BSc students (Thesis is only a written discussion of a research topic), ca. 30 students. The following students carried out a lab stage of 3-4 weeks: a) Annamaria Bertasa, 2003; b) Michele Petenzi, 2007;***** c) Alberto Bugana, 2007; d) Guido Barzanò, 2014; e)Valeria Cedrati, 2014; f) Luca Crivelli, 2017; g) Eugenio Roà, 2018; h) Alvise Donatini, 2022.

10 Research support as Principal Invesigator

Net amounts of grants, excluding cofunding

International grants

1) Title: *Failure and fracture of shape memory polymers*
Source: Ministry of Foreign Affairs and International Cooperation (Progetti Italia-Israele)
Dates: 1/2023 -12/2024 (estimated)
Total budget for UNIPV: ca. 45.000 Euro (coordinator: Giulia Scalet). Amount destined to the PI as the P.I. for the organic chemistry WPs: 8.000 Euro (estimated)

1) Title: *Solving treatment of wastewater sewage sludge with new HTL technology to produce hydrocarbons, asphalts and fertilizers*. Project acronym: LIFE FREEDOM
Source: European Commission - LIFE 2019 Call for proposals for LIFE ACTION GRANTS
Dates: 10/2020 -9/2024 (estimated)
Total budget for UNIPV: 246.258 Euro. Amount destined to the PI as the P.I. for the organic chemistry WPs: 50.000 Euro (estimated)

2) Title: *Development of Chiroptical Sensors Derived from Cyclodextrins for the Analysis of Hydrophobic and Amphiphilic Organic Pollutants in Water*
Source: Cercle Gutenberg - Alsace region (France)
Dates: 3/2020-2/2022
Amount: 60.000 Euro

3) Title: *Chiral soft organic nanostructures based on triptycenes*
Source: European Commission - EUSMI - European Soft Matter Infrastructure. The title proposal submitted by the PI was funded upon external reviewing. The research contract allowed an EUSMI participating industry (the Dutch company SYMO-CHEM) to be paid to perform the synthesis of speciality chemicals of interest of the PI's research group.
Dates: 10/2020-7/2021
Amount: 50 working days (27.500 Euro)

4) Title: *π-Conjugated Monomers for OPVs*
Source: European Commission - EUSMI - European Soft Matter Infrastructure. The title proposal submitted by the PI was funded upon external reviewing. The research contract allowed an EUSMI participating industry (the Dutch company SYMO-CHEM) to be paid to perform the synthesis of speciality chemicals of interest of the PI's research group.
Dates: 5/2018-3/2019
Amount: 100 working days (55.000 Euro)

Total international grants: **200,5 kEuro**

National grants

1) Title: *Near InfraRed Photon management for transparent LUminescent Spectral conversion technologies (NIR+)*
Source: PRIN (projects of Relevant National Interest) MIUR. Unit Coordinator for UNIPV. National Coordinator:

Gianmarco Griffini
Dates: 10/2023-9/2025
Amount: 72.522 Euro

1) Title: *Circular Economy for Water and Energy - C4WE*
Source: Regione Lombardia
Durata: 02/2020 – 07/2022
Total budget for UNIPV: 2.000.000 Euro. Amount destined to the PI as the P.I. for the subtask WP2.1.2 (polymeric membrane optimization): 31.000 Euro

2) Title: *Environmentally Compatible Silyl-Modified Polymers (ECOSiMP)* (including a PhD fellowship)
Source: INPS (PhD fellowships on sustainable development), proposal funded in collaboration with New Polyurethane Technologies s.r.l.
Durata: 10/2020-9/2023
Amount: 67.700 Euro

3) Title: *Boosting Sustainability in Organic Electronics: the Key Role of Functional Surfactants as Reaction Media and Dispersing Agents (BOOSTER)*
Source: PRIN (projects of Relevant National Interest) MIUR. Unit Coordinator for UNIPV. National Coordinator: Luca Beverina
Dates: 5/2019-4/2021
Amount: 121.000 Euro

4) Title: *Fondo di Finanziamento Attitvità di Ricerca di Base*
Source: MIUR
Dates: 2018
Amount: 3.000 Euro

5) Title: *Nuovi Materiali e Tecnologie per Stampa 3D Stereolitografica (STEREO3D)*
Source: INSTM – Regione Lombardia
Dates: 10/2016-9/2018
Amount: 14.000 Euro (Organic Chemistry Unit Coordinator)

6) Title: *Biomateriali Micro e Nanostrutturati per l'Ingegneria Tissutale derivati da un Polimero Batterico Emergente (PGGABIOMAT)*
Source: INSTM – Regione Lombardia
Dates: 5/2013-4/2015
Amount: 45.000 Euro (Project Coordinator)

7) Title: *Chiroptical Sensing and Chiral Nanostructures with BINOL-based Molecular Modules*
Source: PRIN (projects of Relevant National Interest) MIUR. Unit Coordinator for UNIPV. National Coordinator: Roberto Purrello
Dates: 10/2011-10/2013
Amount: 22.000 Euro

8) Title: *Poli(γ-glutammato): bioproduzione di un polimero ecocompatibile e sua derivatizzazione in materiali per il packaging attivo di alimenti (GAMMA-PGA)*
Source: INSTM – Regione Lombardia
Dates: 3/2010-2/2012
Amount: 28.750 Euro (Project Coordinator)

9) Title: *Supramolecular Assembly of Helical Structures from Optically-Active Macrocycles*
Source: PRIN (projects of Relevant National Interest) MIUR. Unit Coordinator for UNIPV. National Coordinator: Dario Braga
Dates: 11/2004-10/2006
Amount: 46.300 Euro
Total national grants: **449,75 kEuro**

From Foundations:
1) Title: *Poli(γ-glutammato) (gamma-PGA): un materiale biocompatibile e biodegradabile per l'immobilizzazione di molecole biologicamente attive*
Source: Fondazione Alma Mater Ticinensis
Dates: 5/2010-4/2012
Amount: 13.750 Euro (Unit Coordinator)

2) Title: *Self-Assembled Nanostructured Materials: A Strategy for the Control of Electrooptic Properties*
Source: Fondazione CARIPLO (Unit Coordinator)., Project coordinator: Prof. Giuseppe Resnati (POLIMI)
Dates: 9/2007-8/2009
Amount: 57.600 Euro
Total foundations: **71,35 kEuro**

University of Pavia
1) Title: *Organic Electronics* (Nitti)
Source: UNIPV cofunded postdoctoral fellowship type A
Dates: 12/2016-11/2018
Amount: 43.000 Euro

2) Title: *Polymer chemistry (New materials for 3D Stereolithography)* (Yahia)
Source: UNIPV CICOPS fellowship
Dates: 1/2017-3/2017
Amount: 4.000 Euro

3) Title: *Macrocicli Chirali per il Sensing e l'Assemblaggio di Nanostrutture* (Caricato)
Source: UNIPV MIUR PhD fellowship
Dates: 11/2007-10/2010
Amount: 50.000 Euro

4) Title: *Chiral nanostructures* (Coluccini)
Source: UNIPV cofund 1 year postdoctoral fellowship

Dates: 7/2006-6/2007
Amount: 10.000 Euro

5) Title: *Organic Material*s
Fondo di Ateneo per la ricerca, University of Pavia
Dates: annually renewed (2001-2009)
Total Amount: ca. 10.000 Euro
Total UNIPV: **117 kEuro**

Industrial contracts
1) Title: *Second GenerationSupramolecular Polymers as Drag Reducers*
Source: Ordine di Lavoro ENI through UNIPV framework
Dates: 2/2022-7/2022
Amount: 30.000 Euro

2) Title: *Novel Supramolecular Polymers as Drag Reducers*
Source: Ordine di Lavoro ENI through UNIPV framework
Dates: 7/2021-12/2021
Amount: 30.000 Euro

3) Title: *Soft 3D Printable Actuators* (including a PhD fellowship)
Source: ENI through UNIPV framework
Duration: 10/2020-9/2023
Amount: 90.000 Euro

4) Title: *Innovative Viscosity Modifiers for Energy Efficient Lubricants* (including a PhD fellowship)
Source: ENI through UNIPV framework
Dates: 10/2020-9/2023
Amount: 90.000 Euro

5) Title: *Sintesi di materiali organici originali per applicazioni optoelettroniche*
Source: Ordine di Lavoro ENI through UNIPV framework
Dates: 11/2019-10/2020
Amount: 62.515 Euro

6) Title: *studio e caratterizzazione di siliconi innovativi ed additivi per la formulazione di paste coloranti adatte a sistemi poliuretanici*
Source: MARBO S.p.A.
Dates: 5/2019-4/2021
Amount: 40.000 Euro

7) Title: *Materiali organici innovativi per applicazioni nel fotovoltaico* (including a PhD fellowship)
Source: ENI Corporate University
Dates: 10/2018-9/2021

Amount: 90.000 Euro

8) Title: *Sintesi e fornitura di macrocampione antraditiofenico ADT di-acido*
Source: Ordine di Lavoro ENI through INSTM framework
Dates: 3/2019-6/2019
Amount: 25.000 Euro

9) Title: *sintesi e fornitura di macrocampione di monomero antraditiofenico ADT*
Source: Ordine di Lavoro ENI through INSTM framework
Dates: 1/2019-3/2019
Amount: 28.000 Euro

10) Title: *Sintesi e fornitura di macrocampione di monomero antraditiofenico ADT*
Source: Ordine di Lavoro ENI through INSTM framework
Dates: 1/2018-4/2018
Amount: 5.600 Euro

11) Title: *Sintesi e fornitura di macrocampioni di monomero bitiofenico DTB*
Source: Ordine di Lavoro ENI through INSTM framework
Dates: 9/2017-12/2017
Amount: 5.750 Euro

12) Title: *Studio e caratterizzazione di siliconi innovativi ed additivi per la formulazione di paste coloranti adatte a sistemi poliuretanici*
Source: MARBO S.p.A.
Dates: 4/2018-3/2019
Amount: 20.000 Euro

13) Title: *studio e caratterizzazione di siliconi innovativi ed additivi per la formulazione di paste coloranti adatte a sistemi poliuretanici*
Source: MARBO S.P.A.
Dates: 10/2016-9/2017
Amount: 20.000 Euro

14) Title: *Sintesi di poliesteri iper-ramificati per prodotti vernicianti*
Source: IVM Chemicals S.r.l. through INSTM
Dates: 3/2016-2/2017
Amount: 40.000 Euro

15) Title: *Formulazione Innovativa per Somministrazione Intraarticolare*
Source: Rottapharm S.p.A.
Dates: 12/2015-8/2016
Amount: 9.750 Euro (Subcontractor)

16) Title: *Analisi e deformulazione di specifiche composizioni assemblate*

Source: MARBO S.P.A.
Dates: 1/2015-1/2016
Amount: 20.000 Euro

17) Title: *Sistemi Macromolecolari Innovativi per il Fotovoltaico Organico Polimerico* (including a PhD fellowship)
Source: ENI Corporate University
Dates: 11/2013-10/2016
Amount: 70.000 Euro

18) Title: *Sintesi di Prepolimeri a Bassa Polidispersità come Componenti Macromolecolari Innovativi per Adesivi a Base Silanica*
Source: New Polyurethane Technologies s.r.l. through INSTM
Dates: 4/2014-3/2015
Amount: 29.000 Euro

Total Industries: **705,6 kEuro**

Data 12/1/2024 Firma