## EUROPEAN CURRICULUM VITAE FORMAT



PERSONAL INFORMATION

Name

## **ANTONIO PAPAGNI**

## **WORK EXPERIENCE**

Dates (from – to)
Name and address of employer
Type of business or sector
Occupation or position held

Dates (from – to)
 Name and address of employer
 Type of business or sector
 Occupation or position held
 Main activities and responsibilities

Dates (from – to)
 Name and address of employer
 Type of business or sector
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 Dates (from – to) Name and address of employer Type of business or sector Page 1 - Curriculum vitae of [Antonio Papagni]

1981-1983 chemical researcher Zambeletti Pharmaceutical Company, Baranzate (Milan) Researcher in the drug discovering field Responsible person of chemical laboratory for the preparation of biological active molecules Planning and realization of the synthesis of bio-active molecules with the responsibility of coordination of a small team of 3-4 chemical technicians 1986-1990 chemical researcher Mediolanum Pharmaceutical Company Researcher in the drug discovering field Responsible person of chemical laboratory for the preparation of biological active molecules Planning and realization of the synthesis of bio-active molecules 1990-1998 University of Milano, Milan Research in the organic synthesis and mechanism aspects researcher Investigation of new strategies for the synthesis of bio-active systems and studies on the mechanism involved in the evolution of organic reactions 1998-2013 University of Milano-Bicocca, Milan Research in the organic synthesis, mechanism aspects and organic semiconductor Assistant professor Investigation of new strategies for the synthesis of bio-active systems and studies on the mechanism involved in the evolution of organic reactions; synthesis of organic semiconductors; Teaching activities in the material science Bachelor and Master program, Optics and optometry Bachelor program, Chemistry Master program. Responsible and reference person for Optics and Optometry Bachelor program. Reference person for Erasmus-Socrates program 2013 up to day University of Milano-Bicocca, Milan Research in the organic synthesis, mechanism aspects and organic semiconductor For more information go to www.cedefop.eu.int/transparency

www.europa.eu.int/comm/education/index\_en.html www.eurescv-search.com

<ul> <li>Occupation or position held</li> <li>Main activities and responsibilities</li> </ul>	Full professor Investigation of new strategies for the synthesis of bio-active systems and studies on the mechanism involved in the evolution of organic reactions; synthesis of organic semiconductors; Teaching activities in the material science Bachelor and Master program, Optics and optometry Bachelor program, Chemistry Master program. Responsible and reference person for Optics and Optometry Bachelor program. Reference person for Erasmus-Socrates program
EDUCATION AND TRAINING	
• Dates	1981
<ul> <li>Name and type of organisation providing education and training</li> </ul>	University of Milano
<ul> <li>Principal subjects/occupational</li> </ul>	General and Organic Chemistry, practical ad theoretical aspects; Stereochemical aspects in
skills covered • Title of qualification awarded	organic synthesis and mechanistic aspects Master (5 years program)
Dates     Name and type of organisation	1986 University of Milano
providing education and training	
<ul> <li>Principal subjects/occupational skills covered</li> </ul>	Research activity on the reactivity of aryazomethylenphosphorane and their potential application in the synthesis of heterocyclic systems
Title of qualification awarded	Doctorate in Chemistry
MOTHER TONGOE	
OTHER LANGUAGES	Eventsu
<ul> <li>Reading skills</li> </ul>	aood
• Writing skills	good
Verbal skills	good
TECHNICAL SKILLS	OFFICE WORK-PACKAGING WINDOWS, ALL EQUIPMENTS FOR RUNNING CHEMICAL EXPERIMENTS
AND COMPETENCES	
With computers, specific kinds of equipment, machinery, etc.	

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He has been the supervisor of 4 Ph-D students in Materials Sciences and the supervisor of over 100 Master, Bachelor students in Chemistry, Materials Sciences and Optics and Optometry. His main research topics concern the stereoselective organic synthesis, the synthesis of molecular structures with non-linear optical properties and the synthesis of organic based semiconductors. In particular: a) the use of Fischer-type carbene complexes as synthetic equivalents of chiral and non-chiral ester enolates and amides in reactions with different kinds of electrophiles (carbonyl derivatives, electronpoor olefins) and in the synthesis of "Push-Pull" structures with second order non-linear behaviours: b) the use of arenechromiumtricarbonyl complexes as activated substrates in aromatic nucleophilic substitutions and as chiral auxiliaries in the diastereo and enantioselective synthesis of organic compounds with also biological activity: c) synthesis of "Push-Pull" structures bearing fluorinated acceptor groups; d) studies on oligothiophene or fluoroacridine-based organic molecular systems useful in the developing of organic semiconductors or electroluminescent devices (OLED), e) study of reactivity of perfluorinated aromatic systems to nucleophilic substitution and they potential use in the preparation of polyfluorinated heteroaromatic systems, f) synthesis of halogenated acenes for Ullmann-like reactivity studies on metal crystal surfaces. g) synthesis Donor-Acceptor polymers for photovoltaic applications, g) study of surface segregation phenomenon of perfluorinated systems in polymeric matrixes.

The scientific activity is documented by over 110 papers published in international peer reviewer journals and more than 50 poster and oral communication to national and international meetings. He is author of 2 international patents and one of this dedicated to photostabilization of poly-3-hexylthiophene, one of the most employed polymers in bulk heterojunction photovoltaic cells.

He is the reviewer of many international journal in organic chemistry and materials sciences. He has been the local scientific responsible person in research projects supported by the Italian Ministry of Education and Research. He has been the coordinator of an international research project supported by Cariplo Foundation on organic semiconductors. The promotion of young researcher exchanges between the involved institutions was one of the main aims of the project. University involved: Paris-Diderot (Paris, F) and Kingston (London, UK). He has been visiting professor at Kingston University from 2008-2011 and visiting professor at Paris-Diderot in 2009. He has been the Coordinator and the international reference person for Erasmus students and staff mobility exchange program of Bachelor in Optics and Optometry from 2002 up to 2017.

## LIST OF PUBLICATIONS AND PATENTS (2010-2020)

1 Campiglio, P.; Campione, M.; Canepa, F.; Canevali, C.; Cimberle, M. R.; Fanciulli, C.; Miozzo, L.; Moret, M.; Papagni, A.; Rizzato, S.; Sassella, A. Magnetic behaviour of polyfluoroacridinebased organic molecular materials.

European Physical Journal B: Condensed Matter and Complex Systems 2010, 73, 495-501.

2 Tavazzi, Silvia; Silvestri, Leonardo; Miozzo, Luciano; Papagni, Antonio; Spearman, Peter; Ianelli, Sandra; Girlando, Alberto; Camposeo, Andrea; Polo, Marco; Pisignano, Dario. Polarized Absorption, Spontaneous and Stimulated Blue Light Emission of J-type Tetraphenylbutadiene Monocrystals. ChemPhysChem 2010, 11, 429-434

3 Papagni, Antonio; Del Buttero, Paola; Bertarelli, Chiara; Miozzo, Luciano; Moret, Massimo; Pryce, Mary T.; Rizzato, Silvia

Novel fluorinated amino-stilbenes and their solid-state photodimerization

New Journal of Chemistry 2010, 34,2612-2621

4 Campione, Marcello: Parravicini, Matteo: Moret, Massimo: Papagni, Antonio: Schroter, Bernd: Fritz, Torsten Electroless Silver Plating of the Surface of Organic Semiconductors;

Langmuir 2011, 27,12008-12015

5 Maspero, F.; Sala, S.; Fedi, M. E.; Martini, M.; Papagni, A. A new procedure for extraction of collagen from modern and archaeological bones for 14C dating

Analytical and Bioanalytical Chemistry 2011, 401, 2019-2023

6 Papagni, Antonio; Trombini, Claudio; Lombardo, Marco; Bergantin, Stefano; Chams, Amani; Chiarucci, Michel; Miozzo, Luciano; Parravicini, Matteo Cross-Coupling of 5,11-

Dibromotetracene Catalyzed by a Triethylammonium Ion Tagged Diphenylphosphine Palladium Complex in Ionic Liquids. Organometallics 2011, 30, 4325-4329.

7 Braga, Daniele; Jaafari, Abdelhafid; Miozzo, Luciano; Moret, Massimo; Rizzato, Silvia; Papagni, Antonio; Yassar, Abderrahim, The Rubrenic Synthesis: The Delicate Equilibrium between Tetracene and Cyclobutene.

European Journal of Organic Chemistry 2011, 4160-4169

8 Del Buttero, Paola; Gironda, Ramona; Moret, Massimo; Papagni, Antonio; Parravicini, Matteo; Rizzato, Silvia; Miozzo, Luciano, Orthogonal synthesis of fluorinated acridones and acridines from perfluorobenzophenone.

European Journal of Organic Chemistry 2011, 2265-227

9 Papagni Antonio, Rossella Fonte, Luca Benzoni,

Pre-lens tear film evaluation scale: a tool for analysing the tear film-lens interaction with respect to the material used.

Optometry Reports 2012; 2, 31-37 (eISSN 2039-473X)

10 Ramona Gironda, Luciano Miozzo, Denis Tondelier, Marc Chaigneau, Jamal Ghabboun, Maryam Faroun, Antonio Papagni, Marco Matteo Salamone, Riccardo Ruffo and Abderrahim Yassar Functional p-conjugated polymers based on maleimide for photovoltaic applications Organic Photonics and Photovoltaics 2013, 56-66

11 Jan Dettmer, Robertas Ursache, Ana Campilho, Shunsuke Miyashima, Ilya Belevich, Seana O'Regan, Daniel Leroy Mullendore, Shri Ram Yadav, Christa Lanz, Luca Beverina, Antonio Papagni, Korbinian Schneeberger, Detlef Weigel, York-Dieter Stierhof, Thomas Moritz, Michael Knoblauch, Eija Jokitalo and Yka Helariutta, Choline transporter-like1 is required for sieve plate development to mediate long-distance cell-to-cell communication,

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12 Gironda Ramona; Choi, Jin Woo; Miozzo Luciano; Tondelier Denis; Papagni Antonio; Yassar, Abderrahim, A novel isomer of pyrrolo[3,4-c]pyrrole-1,4 (2H,5H)-dione as a new building block for polymer solar cells.

Synthetic Metals, 2014, 196, 38-47.

13 Uttiya, S.; Miozzo, L.; Fumagalli, E. M.; Bergantin, S.; Ruffo, R.; Parravicini, M.; Papagni, A.; Moret, M.; Sassella, A. Connecting molecule oxidation to single crystal structural and charge transport properties in rubrene derivatives. Journal of Materials Chemistry C: Materials for Optical and Electronic Devices, 2014, 2, 4147-4155

14 Russo, Laura; Battocchio, Chiara; Secchi, Valeria; Magnano, Elena; Nappini, Silvia; Taraballi, Francesca; Gabrielli, Luca; Comelli, Francesca; Papagni, Antonio; Costa, Barbara; et al. Thiolene Mediated Neoglycosylation of Collagen Patches: A Preliminary Study.

Langmuir 2014, 30, 1336-1342

For more information go to www.cedefop.eu.int/transparency www.europa.eu.int/comm/education/index\_en.html www.eurescv-search.com

15 Basagni, Andrea; Ferrighi, Lara; Cattelan, Mattia; Nicolas, Louis; Handrup, Karsten; Vaghi, Luca; Papagni, Antonio; Sedona, Francesco; Valentin, Cristiana Di; Agnoli, Stefano On-surface photo-dissociation of C-Br bonds: towards room temperature Ullmann coupling. Chemical Communications 2015, 51, 12593-12596.

16 Ferrighi, Lara; Pis, Igor; Nguyen, Thanh Hai; Cattelan, Mattia; Nappini, Silvia; Basagni, Andrea; Parravicini, Matteo;Papagni, Antonio; Sedona, Francesco; Magnano, Elena; Control of the Intermolecular Coupling of Dibromotetracene on Cu(110) by the Sequential

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19 Smerieri, Marco; Pis, Igor; Ferrighi, Lara; Nappini, Silvia; Lusuan, Angelique; Di Valentin, Cristiana; Vaghi, Luca; Papagni, Antonio; Cattelan, Mattia; Agnoli, Stefano;

Synthesis of graphene nanoribbons with a defined mixed edge-site sequence by surface assisted polymerization of (1, 6)-dibromopyrene on Ag(110);

Nanoscale 2016, 8, 17843-17853.

20 Antonicci, A.; Ardid, M.; Bertoni, R.; Bruno, G.; Burgio, N.; Caruso, G.; Cattaneo, D.; Chignoli, F.; Clemenza, M.; Corcione, M.; et al

MOSCAB: a geyser-concept bubble chamber to be used in a dark matter search

European Physical Journal C: Particles and Fields 2017, 77, 1-7

21 Ghatora, Baljit K.; Foot, Peter J. S.; Barton, Stephen J.; Thatti, Ravtej S.; Papagni, Antonio; Vaghi, Luca Surface perfluoroalkyl chains segregation: a tool for reducing calcium deposits in medical grade poly(methyl methacrylate)

Journal of Biomaterials and Nanobiotechnology (2017), 8, 176-187.

22 Andreosso, Ivan; Papagni, Antonio; Vaghi, Luca

Mechanochemical oxidation of fluorinated anilines to symmetric azobenzenes

Journal of Fluorine Chemistry 2018, 216, 124-127

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Brevetti

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3 Papagni, Antonio; Facchetti, Antonio; Chen, Zhihua Phenazine-based molecular and polymeric semiconductors U.S. Pat. Appl. Publ. (2016), US 20160351815 A1 20161201.

4. Papagni Antonio, Mauro Monti, Luca Giannini et al. Patent application: IT 102019000025804 Title: "Composizioni per mescole elastomeriche comprendenti reticolanti politetrazolici e pneumatici che le comprendono".

5. Papagni Antonio, Mauro Monti, Luca Giannini et al. Patent application: IT 102020000015514 Title: "Composizioni per mescole elastomeriche comprendenti compatibilizzanti tetrazolici e pneumatici che le comprendono"