

EUROPEAN CV FORMAT



PERSONAL DETAILS

Name **STEFANO CICCHI**
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E-mail **stefano.cicchi@unifi.it**

Nationality [REDACTED]

JOB EXPERIENCE

- Dates (from - to) From september 2023 to date
- Name and address of employer Università degli Studi di Firenze, Dipartimento di Chimica "Ugo Schiff", via della Lastruccia 13, Sesto Fiorentino, 50019 Firenze, Italia.
- Type of company or sector Academic.
- Main tasks and responsibilities Teaching and Research
- Type of employment Full Professor

- Dates (from - to) From November 2014 to August 2023
- Name and address of employer Università degli Studi di Firenze, Dipartimento di Chimica "Ugo Schiff", via della Lastruccia 13, Sesto Fiorentino, 50019 Firenze, Italia.
- Type of company or sector Academic.
- Main tasks and responsibilities Teaching and Research, supervisor of more than 50 dissertations and 5 PhDs.
- Type of employment Associate Professor

- Dates (from - to) From November 2019 to date
- Name and address of employer Università degli Studi di Firenze, Dipartimento di Chimica "Ugo Schiff", via della Lastruccia 13, Sesto Fiorentino, 50019 Firenze, Italia.
- Type of company or sector Academic.
- Main tasks and responsibilities Teaching organisation
- Type of employment Chairman Master's Degree Course in Chemistry in English 'Advanced Molecular Sciences'.

- Dates (from - to) From January 2019 to 2022
- Name and address of employer Artes 4.0 Consortium: Industry 4.0 Competence Centre
- Type of company or sector Industrial
- Main tasks and responsibilities Interactions with industry for Industry 4.0 development
- Type of employment Awareness Node Coordinator

- Dates (from - to) From February 1996 to November 2014
- Name and address of employer Università degli Studi di Firenze, Dipartimento di Chimica "Ugo Schiff", via della Lastruccia 13, Sesto Fiorentino, 50019 Firenze, Italia.
- Type of company or sector Academic
- Main tasks and responsibilities Research and teaching assistance to the Chemistry degree course

Type of employment	Researcher.
• Dates (from - to)	From November 1995 t February 1996
• Name and address of employer	Università degli Studi di Firenze, Dipartimento di Chimica.
• Type of company or sector	Academic
Type of employment	Researcher.
• Main tasks and responsibilities	Two-year scholarship for post-doctoral research activities
• Dates (from - to)	from November 1993 November 1995
• Name and address of employer	Istituto ISSECC-CNR
• Type of company or sector	Research organisation
• Main tasks and responsibilities	Reseracher.
• Type of employment	Winner of annual scholarship, confirmed for the second year

ISTRUZIONE

• Dates (from – to)	From November 1989 to November 1992
• Name and type of organisation providing education and training	Università degli Studi di Firenze
Principal subjects/occupational skills covered	PhD in Chemical Sciences (Cycle V), Subject area Organic Chemistry (CHIM06); Dissertation title: "Stereoselective additions to Phosphinylalkenes: Synthesis of New Optically Active Phosphinylated Molecules as Versatile Intermediates in Organic Synthesis". (Tutor: Prof. A. Brandi; Coordinator: Prof. I. Bertini).
• Qualification obtained	Doctorate (PhD) in Chemical Sciences
• Dates (from – to)	November 1989 to June 1992
• Name and type of organisation providing education and training	Università degli Studi di Firenze
Principal subjects/occupational skills covered	Degree of Science in Chemistry, experimental thesis in Organic Chemistry entitled "Synthesis of phosphinoisoxazolidines" (Supervisors: Prof. A. Brandi and Prof. F. De Sarlo).
• Qualification obtained	Degree in Chimica
• Level in national classification (if applicable)	110/110 <i>cum laude</i>
• Dates (from – to)	October 1984 to July 1989
• Name and type of organisation providing education and training	Liceo Classico Statale "Niccolò Machiavelli", Firenze (FI)
Principal subjects/occupational skills covered	Greek, Latin, Italian, Philosophy, History, Biology, Chemistry
• Qualification obtained	Diploma di maturità classica
• Level in national classification (if applicable)	55/60

TRAINING

• Dates (from – to)	14-16-22-23 january 2020
• Name and type of organisation providing education and training	General and specific training for workers on health and safety in the workplace valid pursuant to Art. 37 of Legislative Decree 81/2008 as amended and in compliance with the provisions of the State-Regions Agreement of 21 December 2011; general training: 4 hours provided in e-learning mode; specific training: 16 hours in presence.
• Principal subjects/occupational skills covered	Safety, risks, damage, prevention, protection; rights, duties and sanctions; emergency management; supervisory, control and assistance bodies (4h). Risks common to all tasks (4 h). Interference risk Chemical risks and Carcinogenic agents (4 hrs). Biological risk (2 h). Equipment (2 h). ROA PPE (2 h). Electromagnetic fields (2h)
Title of qualification awarded	Certificate of participation and passing the final tests.

• Dates (from – to)	June 1992
Name and type of organisation providing education and training	A. Corbella" Summer School, Gargnano del Garda (BS).
- Principal subjects/occupational skills covered	Seminars on organic synthesis.

TEACHING AND ASSOCIATED ACTIVITIES

ACADEMIC COURSES

• Dates (from – to)	September 2019 - to date
• Description	Holder of a course for Second Level Degree in ADVANCED MOLECULAR SCIENCES, at the University of Florence / Department of Chemistry; 16 hours of lectures and 12 hours of laboratory per year.
• remarks	Title of qualification: ADVANCED SYNTHETIC METHODS (B029593).
• Dates (from – to)	February 2016 - November 2019
• Description	Holder of a course for 3-year First Level Degree in Wildlife Sciences, at the University of Florence; 16 hours of lectures per year.
• remarks	itle of qualification: ORGANIC CHEMISTRY (B000396).
• Dates (from – to)	September 2009 - to date
• Description	Holder of a course for Second Level Degree in Chemical Sciences, at the University of Florence; 48 hours of lectures per year.
• remarks	Title of qualification: ORGANIC CHEMISTRY FOR MATERIALS (B012851)
• Dates (from – to)	February 1999 - 2021
• Description	Holder of a course for 3-year First Level Degree in Chemistry, at the University of Florence; 64 hours of lectures and laboratory per year.
• remarks	Teaching qualification: LABORATORY OF ORGANIC CHEMISTRY II (B006885)
• Dates (from – to)	February 2022 - to date
• Description	Holder of a course for 3-year First Level Degree in Chemistry, at the University of Florence; 48 hours of lectures per year.
• remarks	Title of qualification: ORGANIC CHEMISTRY II and laboratory, theory module (B006885)
• Dates (from – to)	Academic year 2013-2014
• Description	PAS (percorsi abilitanti speciali) course for C240 class
• remarks	Title of qualification: laboratory of organic Chemistry (3 CFU)
• Dates (from – to)	Academic years 2003-2009
• Description	older of a course for Second Level Degree in Biotechnology, at the University of Florence; 48 hours of lectures.
• remarks	Course title: Chemistry of Natural Organic Substances
• Date (da – a)	Academic years 2005/2009
• Tipologia	Holder of a course for Second Level Degree in Chemical Sciences, University of Florence; 24 hours of lectures per year
• Osservazioni	Course title: Synthesis and Biosynthesis Properties of Natural Substances II

SUPERVISION OF DOCTORAL THESES

THESIS SUPERVISOR

Supervisor of more than 50 Master's and Bachelor's theses in Chemistry

BIBLIOMETRIC INDEXES

• H-Index	37
• N° citations	4900
	http://orcid.org/0000-0002-4913-6414
	http://scholar.google.it/citations?user=b9NDPHUAAAAJ

SCIENTIFIC ARTICLES

1.

Cacaci, M., Biagiotti, G., Toniolo, G., Albino, M., Sangregorio, C., Severi, M., Di Vito, M., Squitieri, D., Contiero, L., Paggi, M., Marelli, M., Cicchi, S., Bugli, F., Richichi, B. Shaping Silver Nanoparticles' Size through the Carrier Composition: Synthesis and Antimicrobial Activity. *Nanomaterials*, 2023, 13, 1585, . doi: 10.3390/nano13101585

2.

Biagiotti, G., Toniolo, G., Albino, M., Severi, M., Andreozzi, P., Marelli, M., Kokot, H., Tria, G., Guerri, A., Sangregorio, C., Rojo, J., Berti, D., Marradi, M., Cicchi, S., Urbančič, I., van Kooyk, Y., Chiodo, F., Richichi, B. Simple engineering of hybrid cellulose nanocrystal-gold nanoparticles results in a functional glyconanomaterial with biomolecular recognition properties. *Nanoscale Horizons*, 2023, 8, 776-782. doi: 10.1039/d3nh00063j

3.

Tricomi, J., Cacaci, M., Biagiotti, G., Caselli, L., Niccoli, L., Torelli, R., Gabbani, A., Di Vito, M., Pineider, F., Severi, M., Sanguinetti, M., Menna, E., Lelli, M., Berti, D., Cicchi, S., Bugli, F., Richichi, B. Ball milled glyco-graphene oxide conjugates markedly disrupted *Pseudomonas aeruginosa* biofilms. *Nanoscale*, 2022, 14, 10190-10199. doi: 10.1039/d2nr02027k

4.

Doria, S.; Taddei, M.; Cupellini, L.; Biagiotti, G.; Bartolini, P.; Bussotti, L.; Cicchi, S.; Foggi, P.; Mennucci, B.; Di Donato, M. Unravelling the Ultrafast Dynamics of a N-BODIPY Compound. *Dyes and Pigments* **2022**, 200, doi:[10.1016/j.dyepig.2022.110181](https://doi.org/10.1016/j.dyepig.2022.110181).

5.

Biagiotti, G.; Salvatore, A.; Toniolo, G.; Caselli, L.; Di Vito, M.; Cacaci, M.; Contiero, L.; Gori, T.; Maggini, M.; Sanguinetti, M.; et al. Metal-Free Antibacterial Additives Based on Graphene Materials and Salicylic Acid: From the Bench to Fabric Applications. *ACS Applied Materials and Interfaces* **2021**, 13, 26288–26298, doi:[10.1021/acsami.1c02330](https://doi.org/10.1021/acsami.1c02330).

6.

Biagiotti, G.; Purić, E.; Urbančič, I.; Krišelj, A.; Weiss, M.; Mravljak, J.; Gellini, C.; Lay, L.; Chiodo, F.; Anderluh, M.; et al. Combining Cross-Coupling Reaction and Knoevenagel Condensation in the Synthesis of Glyco-BODIPY Probes for DC-SIGN Super-Resolution Bioimaging. *Bioorganic Chemistry* **2021**, 109, doi:[10.1016/j.bioorg.2021.104730](https://doi.org/10.1016/j.bioorg.2021.104730).

7.

Biagiotti, G.; Perini, I.; Richichi, B.; Cicchi, S. Novel Synthetic Approach to Heteroatom Doped Polycyclic Aromatic Hydrocarbons: Optimizing the Bottom-up Approach to Atomically Precise Doped Nanographenes. *Molecules* **2021**, *26*, doi:[10.3390/molecules26206306](https://doi.org/10.3390/molecules26206306).

8.

Biagiotti, G.; Angeli, A.; Giacomini, A.; Toniolo, G.; Landini, L.; Salerno, G.; Di Cesare Mannelli, L.; Ghelardini, C.; Mello, T.; Mussi, S.; et al. Glyco-Coated CdSe/ZnS Quantum Dots as Nanoprobes for Carbonic Anhydrase IX Imaging in Cancer Cells. *ACS Applied Nano Materials* **2021**, *4*, 14153–14160, doi:[10.1021/acsanm.1c03603](https://doi.org/10.1021/acsanm.1c03603).

9.

Matassini, C.; Bonanni, M.; Marradi, M.; Cicchi, S.; Goti, A. On the Virtue of Indium in Reduction Reactions. A Comparison of Reductions Mediated by Indium and Zinc: Is Indium Metal an Effective Catalyst for Zinc Induced Reductions? *European Journal of Inorganic Chemistry* **2020**, *2020*, 1106–1113, doi:[10.1002/ejic.201901081](https://doi.org/10.1002/ejic.201901081).

10.

Domenichini, E.; Doria, S.; Di Donato, M.; Cupellini, L.; Biagiotti, G.; Iagatti, A.; Bussotti, L.; Mennucci, B.; Cicchi, S.; Foggi, P. Steric Hindrances and Spectral Distributions Affecting Energy Transfer Rate: A Comparative Study on Specifically Designed Donor-Acceptor Pairs. *Dyes and Pigments* **2020**, *174*, doi:[10.1016/j.dyepig.2019.108010](https://doi.org/10.1016/j.dyepig.2019.108010).

11.

Andreozzi, P.; Tamperi, L.; Tasca, E.; Giacomazzo, G.E.; Martinez, M.; Severi, M.; Marradi, M.; Cicchi, S.; Moya, S.; Biagiotti, G.; et al. The B & B Approach: Ball-Milling Conjugation of Dextran with Phenylboronic Acid (PBA)-Functionalized BODIPY. *Beilstein Journal of Organic Chemistry* **2020**, *16*, 2272–2281, doi:[10.3762/BJOC.16.188](https://doi.org/10.3762/BJOC.16.188).

12.

Luconi, L.; Rossin, A.; Tuci, G.; Gafurov, Z.; Lyubov, D.M.; Trifonov, A.A.; Cicchi, S.; Ba, H.; Pham-Huu, C.; Yakhvarov, D.; et al. Benzoimidazole-Pyridylamido Zirconium and Hafnium Alkyl Complexes as Homogeneous Catalysts for Tandem Carbon Dioxide Hydrosilylation to Methane. *ChemCatChem* **2019**, *11*, 495–510, doi:[10.1002/cctc.201800077](https://doi.org/10.1002/cctc.201800077).

13.

Biagiotti, G.; Pisaneschi, F.; Gammon, S.T.; Machetti, F.; Ligi, M.C.; Giambastiani, G.; Tuci, G.; Powell, E.; Piwnica-Worms, H.; Pranzini, E.; et al. Multiwalled Carbon Nanotubes for Combination Therapy: A Biodistribution and Efficacy Pilot Study. *Journal of Materials Chemistry B* **2019**, *7*, 2678–2687, doi:[10.1039/c8tb03299h](https://doi.org/10.1039/c8tb03299h).

14.

Tuci, G.; Mosconi, D.; Rossin, A.; Luconi, L.; Agnoli, S.; Righetto, M.; Pham-Huu, C.; Ba, H.; Cicchi, S.; Granozzi, G.; et al. Surface Engineering of Chemically Exfoliated MoS₂ in a "Click": How to Generate Versatile Multifunctional Transition Metal Dichalcogenides-Based Platforms. *Chemistry of Materials* **2018**, *30*, 8257–8269, doi:[10.1021/acs.chemmater.8b03663](https://doi.org/10.1021/acs.chemmater.8b03663).

15.

Biagiotti, G.; Ligi, M.C.; Fedeli, S.; Pranzini, E.; Gamberi, T.; Cicchi, S.; Paoli, P. Metformin Salts with Oxidized Multiwalled Carbon Nanotubes: In Vitro Biological Activity and Inhibition of CNT Internalization. *Journal of Drug Delivery Science and Technology* **2018**, *47*, 254–258, doi:[10.1016/j.jddst.2018.07.023](https://doi.org/10.1016/j.jddst.2018.07.023).

16.

Biagiotti, G.; Fedeli, S.; Tuci, G.; Luconi, L.; Giambastiani, G.; Brandi, A.; Pisaneschi, F.; Cicchi, S.; Paoli, P. Combined Therapies with Nanostructured Carbon Materials: There Is Room Still Available at the Bottom. *Journal of Materials Chemistry B* **2018**, *6*, 2022–2035, doi:[10.1039/c8tb00121a](https://doi.org/10.1039/c8tb00121a).

17.

Tuci, G.; Rossin, A.; Luconi, L.; Pham-Huu, C.; Cicchi, S.; Ba, H.; Giambastiani, G. Pyridine-Decorated Carbon Nanotubes as a Metal-Free Heterogeneous Catalyst for Mild CO₂ Reduction to Methanol with Hydroboranes. *Catalysis Science and Technology* **2017**, *7*, 5833–5837, doi:[10.1039/c7cy01772c](https://doi.org/10.1039/c7cy01772c).

18.

Sciortino, N.; Fedeli, S.; Paoli, P.; Brandi, A.; Chiarugi, P.; Severi, M.; Cicchi, S. Multiwalled Carbon Nanotubes for Drug Delivery: Efficiency Related to Length and Incubation Time. *International Journal of Pharmaceutics* **2017**, *521*, 69–72, doi:[10.1016/j.ijpharm.2017.02.023](https://doi.org/10.1016/j.ijpharm.2017.02.023).

19.

Lisi, S.; Scarano, S.; Fedeli, S.; Pascale, E.; Cicchi, S.; Ravelet, C.; Peyrin, E.; Minunni, M. Toward Sensitive Immuno-Based Detection of Tau Protein by Surface Plasmon Resonance Coupled to Carbon Nanostructures as Signal Amplifiers. *Biosensors and Bioelectronics* **2017**, *93*, 289–292, doi:[10.1016/j.bios.2016.08.078](https://doi.org/10.1016/j.bios.2016.08.078).

20.

Brandi, A.; Cardona, F.; Cicchi, S.; Cordero, F.M.; Goti, A. *[3 + 2] Dipolar Cycloadditions of Cyclic Nitrones with Alkenes; Organic Reactions*; 2017; Vol. 94;.

21.

Biagiotti, G.; Langè, V.; Ligi, C.; Caporali, S.; Muniz-Miranda, M.; Flis, A.; Pietrusiewicz, K.M.; Ghini, G.; Brandi, A.; Cicchi, S. Nanostructured Carbon Materials Decorated with Organophosphorus Moieties: Synthesis and Application. *Beilstein Journal of Nanotechnology* **2017**, *8*, 485–493, doi:[10.3762/bjnano.8.52](https://doi.org/10.3762/bjnano.8.52).

22.

Iagatti, A.; Cupellini, L.; Biagiotti, G.; Caprasecca, S.; Fedeli, S.; Lapini, A.; Ussano, E.; Cicchi, S.; Foggi, P.; Marcaccio, M.; et al. Efficient Photoinduced Charge Separation in a BODIPY-C60 Dyad. *Journal of Physical Chemistry C* **2016**, *120*, 16526–16536, doi:[10.1021/acs.jpcc.6b05738](https://doi.org/10.1021/acs.jpcc.6b05738).

23.

Fedeli, S.; Brandi, A.; Venturini, L.; Chiarugi, P.; Giannoni, E.; Paoli, P.; Corti, D.; Giambastiani, G.; Tuci, G.; Cicchi, S. The “Click-on-Tube” Approach for the Production of Efficient Drug Carriers Based on Oxidized Multi-Walled Carbon Nanotubes. *Journal of Materials Chemistry B* **2016**, *4*, 3823–3831, doi:[10.1039/c6tb00304d](https://doi.org/10.1039/c6tb00304d).

24.

Tuci, G.; Luconi, L.; Rossin, A.; Baldini, F.; Cicchi, S.; Tombelli, S.; Trono, C.; Giannetti, A.; Manet, I.; Fedeli, S.; et al. A Hetero-Bifunctional Spacer for the Smart Engineering of Carbon-Based Nanostructures. *ChemPlusChem* **2015**, *80*, 636, doi:[10.1002/cplu.201500037](https://doi.org/10.1002/cplu.201500037).

25.

Tuci, G.; Luconi, L.; Rossin, A.; Baldini, F.; Cicchi, S.; Tombelli, S.; Trono, C.; Giannetti, A.; Manet, I.; Fedeli, S.; et al. A Hetero-Bifunctional Spacer for the Smart Engineering of Carbon-Based Nanostructures. *ChemPlusChem* **2015**, *80*, 704–714, doi:[10.1002/cplu.201402391](https://doi.org/10.1002/cplu.201402391).

26.

Lascialfari, L.; Pescitelli, G.; Brandi, A.; Mannini, M.; Berti, D.; Cicchi, S. Urea vs. Carbamate Groups: A Comparative Study in a Chiral C₂ Symmetric Organogelator. *Soft Matter* **2015**, *11*, 8333–8341, doi:[10.1039/c5sm01684c](https://doi.org/10.1039/c5sm01684c).

27.
Giorgetti, E.; Marsili, P.; Cicchi, S.; Lascialfari, L.; Albiani, M.; Severi, M.; Caporali, S.; Muniz-Miranda, M.; Pistone, A.; Giammanco, F. Preparation of Small Size Palladium Nanoparticles by Picosecond Laser Ablation and Control of Metal Concentration in the Colloid. *Journal of Colloid and Interface Science* **2015**, *442*, 89–96, doi:[10.1016/j.jcis.2014.11.066](https://doi.org/10.1016/j.jcis.2014.11.066).
28.
Fedeli, S.; Paoli, P.; Brandi, A.; Venturini, L.; Giambastiani, G.; Tuci, G.; Cicchi, S. Azido-Substituted BODIPY Dyes for the Production of Fluorescent Carbon Nanotubes. *Chemistry - A European Journal* **2015**, *21*, 15349–15353, doi:[10.1002/chem.201501817](https://doi.org/10.1002/chem.201501817).
29.
Caminati, G.; Cicchi, S.; Lascialfari, L.; Brandi, A. Separation of Enantiomers of a Phospholipid in Langmuir Monolayers by a New Selector. *Chirality* **2015**, *27*, 784–787, doi:[10.1002/chir.22508](https://doi.org/10.1002/chir.22508).
30.
Brandi, A.; Caporali, S.; Cicchi, S.; Lascialfari, L.; Muniz-Miranda, M.; Orazzini, S.; Severi, M.; Deepak, F.L.; Giorgetti, E. Stable Ruthenium Colloids by Laser Ablation.; 2015; pp. 992–995.
31.
Margheri, G.; Giorgetti, E.; Marsili, P.; Zoppi, A.; Lascialfari, L.; Cicchi, S. Metal-Clad Optical Waveguide Fluorescence Device for the Detection of Heavy Metal Ions. *Optical Engineering* **2014**, *53*, doi:[10.1117/1.OE.53.7.071816](https://doi.org/10.1117/1.OE.53.7.071816).
32.
Lascialfari, L.; Marsili, P.; Caporali, S.; Muniz-Miranda, M.; Margheri, G.; Serafini, A.; Brandi, A.; Giorgetti, E.; Cicchi, S. Carbon Nanotubes/Laser Ablation Gold Nanoparticles Composites. *Thin Solid Films* **2014**, *569*, 93–99, doi:[10.1016/j.tsf.2014.08.029](https://doi.org/10.1016/j.tsf.2014.08.029).
33.
Lascialfari, L.; Fedeli, S.; Cicchi, S. *Heterocyclic Chemistry: A Complete Toolbox for Nanostructured Carbon Materials*; Progress in Heterocyclic Chemistry; 2014; Vol. 26, p. 54;.
34.
Lascialfari, L.; Berti, D.; Brandi, A.; Cicchi, S.; Mannini, M.; Pescitelli, G.; Procacci, P. Chiral/Ring Closed vs. Achiral/Open Chain Triazine-Based Organogelators: Induction and Amplification of Supramolecular Chirality in Organic Gels. *Soft Matter* **2014**, *10*, 3762–3770, doi:[10.1039/c4sm00354c](https://doi.org/10.1039/c4sm00354c).
35.
Lapini, A.; Fabbrizzi, P.; Piccardo, M.; Di Donato, M.; Lascialfari, L.; Foggi, P.; Cicchi, S.; Biczysko, M.; Carnimeo, I.; Santoro, F.; et al. Ultrafast Resonance Energy Transfer in the Umbelliferone-Alizarin Bichromophore. *Physical Chemistry Chemical Physics* **2014**, *16*, 10059–10074, doi:[10.1039/c3cp54609h](https://doi.org/10.1039/c3cp54609h).
36.
Di Donato, M.; Iagatti, A.; Lapini, A.; Foggi, P.; Cicchi, S.; Lascialfari, L.; Fedeli, S.; Caprasecca, S.; Mennucci, B. Combined Experimental and Theoretical Study of Efficient and Ultrafast Energy Transfer in a Molecular Dyad. *Journal of Physical Chemistry C* **2014**, *118*, 23476–23486, doi:[10.1021/jp505957q](https://doi.org/10.1021/jp505957q).
37.
Brandi, A.; Cicchi, S.; Cordero, F.M.; Goti, A. Progress in the Synthesis and Transformations of Alkylidenecyclopropanes and Alkylidenecyclobutanes. *Chemical Reviews* **2014**, *114*, 7317–7420, doi:[10.1021/cr400686j](https://doi.org/10.1021/cr400686j).

38.

Biagiotti, G.; Cicchi, S.; De Sarlo, F.; Machetti, F. Reactivity of [60]Fullerene with Primary Nitro Compounds: Addition or Catalysed Condensation to Isoxazolo[60]Fullerenes. *European Journal of Organic Chemistry* **2014**, 2014, 7906–7915, doi:[10.1002/ejoc.201402990](https://doi.org/10.1002/ejoc.201402990).

39.

Mannini, M.; Cicchi, S.; Berti, D.; Caneschi, A.; Brandi, A.; Lascialfari, L.; Sorace, L. Radical-Functionalised Gel: A Building-Block Strategy for Magnetochiral Assembly. *ChemPlusChem* **2013**, 78, 149–156, doi:[10.1002/cplu.201200250](https://doi.org/10.1002/cplu.201200250).

40.

Tuci, G.; Vinattieri, C.; Luconi, L.; Ceppatelli, M.; Cicchi, S.; Brandi, A.; Filippi, J.; Melucci, M.; Giambastiani, G. "Click" on Tubes: A Versatile Approach towards Multimodal Functionalization of SWCNTs. *Chemistry - A European Journal* **2012**, 18, 8454–8463, doi:[10.1002/chem.201200650](https://doi.org/10.1002/chem.201200650).

41.

Marradi, M.; Cicchi, S.; Sansone, F.; Casnati, A.; Goti, A. Low-Generation Dendrimers with a Calixarene Core and Based on a Chiral C 2-Symmetric Pyrrolidine as Iminosugar Mimics. *Beilstein Journal of Organic Chemistry* **2012**, 8, 951–957, doi:[10.3762/bjoc.8.107](https://doi.org/10.3762/bjoc.8.107).

42.

Cicchi, S.; Cordero, F.M.; Giomi, D. *Five-Membered Ring Systems with O and N Atoms*; Progress in Heterocyclic Chemistry; 2012; Vol. 24, p. 342;.

43.

Brandi, A.; Cordero, F.M.; Vurchio, C.; Lucentini, M.; Cicchi, S. Synthesis of Octahydroquinolizinones Aza-Analogues of Terpenoid Skeletons. *Heterocycles* **2012**, 84, 1251–1258, doi:[10.3987/COM-11-S\(P\)21](https://doi.org/10.3987/COM-11-S(P)21).

44.

Bergamini, G.; Ceroni, P.; Fabbri, P.; Cicchi, S. Erratum: A Multichromophoric Dendrimer: From Synthesis to Energy up Conversion in a Rigid Matrix (Chemical Communications (2012) (12780-12782) (DOI: 10.1039/C1cc16000a)). *Chemical Communications* **2012**, 48, 12258, doi:[10.1039/c2cc90426h](https://doi.org/10.1039/c2cc90426h).

45.

Revuelta, J.; Machetti, F.; Cicchi, S. Five-Membered Heterocycles: 1, 3-Azoles. In *Modern Heterocyclic Chemistry*; 2011; Vol. 2, pp. 809–923.

46.

Muniz-Miranda, M.; Del Rosso, T.; Giorgetti, E.; Margheri, G.; Ghini, G.; Cicchi, S. Surface-Enhanced Fluorescence and Surface-Enhanced Raman Scattering of Push-Pull Molecules: Sulfur-Functionalized 4-Amino-7-Nitrobenzofurazan Adsorbed on Ag and Au Nanostructured Substrates. *Analytical and Bioanalytical Chemistry* **2011**, 400, 361–367, doi:[10.1007/s00216-011-4732-x](https://doi.org/10.1007/s00216-011-4732-x).

47.

Mordini, A.; Valacchi, M.; Epiroti, F.; Reginato, G.; Cicchi, S.; Goti, A. Studies on the Lithiation of Hydroxypyrrolidines: Synthesis of Polyhydroxy-Lated Pyrrolidines via Chiral Enecarbamates. *Synlett* **2011**, 235–240, doi:[10.1055/s-0030-1259307](https://doi.org/10.1055/s-0030-1259307).

48.

Lascialfari, L.; Vinattieri, C.; Ghini, G.; Luconi, L.; Berti, D.; Mannini, M.; Bianchini, C.; Brandi, A.; Giambastiani, G.; Cicchi, S.

Soft Matter Nanocomposites by Grafting a Versatile Organogelator to Carbon Nanostructures. *Soft Matter* **2011**, *7*, 10660–10665, doi:[10.1039/c1sm06017a](https://doi.org/10.1039/c1sm06017a).

49.

Giambastiani, G.; Cicchi, S.; Giannasi, A.; Luconi, L.; Rossin, A.; Mercuri, F.; Bianchini, C.; Brandi, A.; Melucci, M.; Ghini, G.; et al. Functionalization of Multiwalled Carbon Nanotubes with Cyclic Nitrones for Materials and Composites: Addressing the Role of CNT Sidewall Defects. *Chemistry of Materials* **2011**, *23*, 1923–1938, doi:[10.1021/cm103655y](https://doi.org/10.1021/cm103655y).

50.

Fabrizzi, P.; Cecconi, B.; Cicchi, S. A Modular “click” Approach to Substituted 2,2'-Bipyridines. *Synlett* **2011**, 223–226, doi:[10.1055/s-0030-1259304](https://doi.org/10.1055/s-0030-1259304).

51.

Del Rosso, T.; Giorgetti, E.; Margheri, G.; Rindi, A.; Muniz-Miranda, M.; Carloni, A.; Pavone, F.; Fabrizio, P.; Cicchi, S. Cu²⁺ Chemosensing Behaviour of Self-Organized Micro-Array Structures of a Donor-Acceptor Bichromophoric Compound Anchored onto Ag Nanoisland Films. *Sensors and Actuators, B: Chemical* **2011**, *155*, 46–52, doi:[10.1016/j.snb.2010.11.021](https://doi.org/10.1016/j.snb.2010.11.021).

52.

Cordero, F.M.; Vurchio, C.; Cicchi, S.; De Meijere, A.; Brandi, A. Rh-Catalyzed Rearrangement of Vinylcyclopropane to 1,3-Diene Units Attached to N-Heterocycles. *Beilstein Journal of Organic Chemistry* **2011**, *7*, 298–303, doi:[10.3762/bjoc.7.39](https://doi.org/10.3762/bjoc.7.39).

53.

Cicchi, S.; Pescitelli, G.; Lascialfari, L.; Ghini, G.; Bari, L.D.; Brandi, A.; Bussotti, L.; Atsbeha, T.; Marcelli, A.; Foggi, P.; et al. Chirality Driven Self-Assembly in a Fluorescent Organogel. *Chirality* **2011**, *23*, 833–840, doi:[10.1002/chir.21007](https://doi.org/10.1002/chir.21007).

54.

Cicchi, S.; Cordero, F.M.; Giomi, D. *Five-Membered Ring Systems with o and n Atoms*; Progress in Heterocyclic Chemistry; 2011; Vol. 23, p. 327.

55.

Cicchi, S.; Cordero, F.M.; Giomi, D. *Five-Membered Ring Systems with O & N Atoms*; Progress in Heterocyclic Chemistry; 2011; Vol. 22, p. 347.

56.

Bergamini, G.; Ceroni, P.; Fabrizio, P.; Cicchi, S. A Multichromophoric Dendrimer: From Synthesis to Energy up-Conversion in a Rigid Matrix. *Chemical Communications* **2011**, *47*, 12780–12782, doi:[10.1039/c1cc16000a](https://doi.org/10.1039/c1cc16000a).

57.

Atsbeha, T.; Bussotti, L.; Cicchi, S.; Foggi, P.; Ghini, G.; Lascialfari, L.; Marcelli, A. Photophysical Characterization of Low-Molecular Weight Organogels for Energy Transfer and Light Harvesting. *Journal of Molecular Structure* **2011**, *993*, 459–463, doi:[10.1016/j.molstruc.2010.12.046](https://doi.org/10.1016/j.molstruc.2010.12.046).

58.

Giovanella, U.; Mróz, W.; Foggi, P.; Fabrizio, P.; Cicchi, S.; Botta, C. Multi-Colour Electroluminescence of Dendronized Antennae Containing Pyrenes as Light Harvesters. *ChemPhysChem* **2010**, *11*, 683–688, doi:[10.1002/cphc.200900771](https://doi.org/10.1002/cphc.200900771).

59.

- Giorgetti, E.; Margheri, G.; Del Rosso, T.; Sottini, S.; Muniz-Miranda, M.; Cicchi, S. Metal Nanoisland Films for the Enhancement of the Chemico-Physical Properties of Molecular Adsorbates.; 2010.
- 60.
- Ghini, G.; Luconi, L.; Rossin, A.; Bianchini, C.; Giambastiani, G.; Cicchi, S.; Lascialfari, L.; Brandi, A.; Giannasi, A. Can Nitrones Functionalize Carbon Nanotubes? *Chemical Communications* **2010**, 46, 252–254, doi:[10.1039/b917016b](https://doi.org/10.1039/b917016b).
- 61.
- Cicchi, S.; Revuelta, J.; Objartel, I.; De Meijere, A.; Brandi, A. Switching the Reaction Mode of 4-Methoxycarbonyl-4-Chloro-5-Spirocyclopropaneisoxazolidines by N -Aryl Substitution. *Synlett* **2010**, 1939–1942, doi:[10.1055/s-0030-1258136](https://doi.org/10.1055/s-0030-1258136).
- 62.
- Cicchi, S.; Ghini, G.; Lascialfari, L.; Brandi, A.; Betti, F.; Berti, D.; Baglioni, P.; Di Bari, L.; Pescitelli, G.; Mannini, M.; et al. Self-Sorting Chiral Organogels from a Long Chain Carbamate of 1-Benzyl-Pyrrolidine-3,4-Diol. *Soft Matter* **2010**, 6, 1655–1661, doi:[10.1039/b918709j](https://doi.org/10.1039/b918709j).
- 63.
- Marradi, M.; Corsi, M.; Cicchi, S.; Bonanni, M.; Cardona, F.; Goti, A. N-Glycosylhydroxylamines as Masked Polyhydroxylated Chiral Nitrones in Cycloaddition Reactions: An Access to Pyrrolizidines. *Heterocycles* **2009**, 79, 883–896, doi:[10.3987/COM-08-S\(D\)59](https://doi.org/10.3987/COM-08-S(D)59).
- 64.
- Giorgetti, E.; Cicchi, S.; Muniz-Miranda, M.; Margheri, G.; Del Rosso, T.; Giusti, A.; Rindi, A.; Ghini, G.; Sottini, S.; Marcelli, A.; et al. Förster Resonance Energy Transfer (FRET) with a Donor-Acceptor System Adsorbed on Silver or Gold Nanoisland Films. *Physical Chemistry Chemical Physics* **2009**, 11, 9798–9803, doi:[10.1039/b909123h](https://doi.org/10.1039/b909123h).
- 65.
- Ghini, G.; Lascialfari, L.; Vinattieri, C.; Cicchi, S.; Brandi, A.; Berti, D.; Betti, F.; Baglioni, P.; Mannini, M. Towards a General Organogelator: Combining a Versatile Scaffold and an Efficient Linking Process. *Soft Matter* **2009**, 5, 1863–1869, doi:[10.1039/b819345b](https://doi.org/10.1039/b819345b).
- 66.
- Fabrizzi, P.; Cicchi, S.; Brandi, A.; Sperotto, L.; Van Koten, G. An Efficient (2-Aminoarenethiolato)Copper(I) Complex for the Copper-Catalysed Huisgen Reaction (CuAAC). *European Journal of Organic Chemistry* **2009**, 5423–5430, doi:[10.1002/efoc.200900779](https://doi.org/10.1002/efoc.200900779).
- 67.
- Del Rosso, T.; Giorgetti, E.; Cicchi, S.; Muniz-Miranda, M.; Margheri, G.; Giusti, A.; Rindi, A.; Ghini, G.; Sottini, S.; Marcelli, A.; et al. Surface-Enhanced Fluorescence and Surface-Enhanced Raman Scattering of Ultrathin Layers of Bichromophoric Antenna Systems Adsorbed on Silver Nanoisland Films. *Journal of Luminescence* **2009**, 129, 1955–1959, doi:[10.1016/j.jlumin.2008.11.027](https://doi.org/10.1016/j.jlumin.2008.11.027).
- 68.
- Cicchi, S.; Fabrizio, P.; Ghini, G.; Brandi, A.; Foggi, P.; Marcelli, A.; Righini, R.; Botta, C. Pyrene-Excimers-Based Antenna Systems. *Chemistry - A European Journal* **2009**, 15, 754–764, doi:[10.1002/chem.200801379](https://doi.org/10.1002/chem.200801379).
- 69.
- Cicchi, S.; Cordero, F.M.; Giomi, D. *Five-Membered Ring Systems with O & N Atoms*; Progress in Heterocyclic Chemistry; 2009; Vol. 21, p. 329.

70.
Cicchi, S.; Cordero, F.M.; Giomi, D. *Chapter 5.7: Five-Membered Ring Systems with O & N Atoms*; Progress in Heterocyclic Chemistry; 2009; Vol. 20, p. 288;.
71.
Brandi, A.; Cardona, F.; Cicchi, S.; Cordero, F.M.; Goti, A. Stereocontrolled Cyclic Nitron Cycloaddition Strategy for the Synthesis of Pyrrolizidine and Indolizidine Alkaloids. *Chemistry - A European Journal* **2009**, *15*, 7808–7821, doi:[10.1002/chem.200900707](https://doi.org/10.1002/chem.200900707).
72.
Revuelta, J.; Cicchi, S.; De Meijere, A.; Brandi, A. 3-Spirocyclopropanedihydro- and -Tetrahydropyridin-4-Ones from Nitron Cycloadducts of Bicyclopropylidene via 1-(1'-Aminomethylcyclopropyl)- Cyclopropanol under PdII Catalysis. *European Journal of Organic Chemistry* **2008**, 1085–1091, doi:[10.1002/ejoc.200700912](https://doi.org/10.1002/ejoc.200700912).
73.
Cicchi, S.; Ghini, G.; Fallani, S.; Brandi, A.; Berti, D.; Betti, F.; Baglioni, P. The Triazine Ring as a Scaffold for the Synthesis of New Organogelators. *Tetrahedron Letters* **2008**, *49*, 1701–1705, doi:[10.1016/j.tetlet.2007.12.124](https://doi.org/10.1016/j.tetlet.2007.12.124).
74.
Cicchi, S.; Cordero, F.M.; Giomi, D. *Chapter 5.7 Five-Membered Ring Systems with O & N Atoms*; Progress in Heterocyclic Chemistry; 2008; Vol. 19, p. 313;.
75.
Brandi, A.; Cicchi, S.; Cordero, F.M. Novel Syntheses of Azetidines and Azetidinones. *Chemical Reviews* **2008**, *108*, 3988–4035, doi:[10.1021/cr800325e](https://doi.org/10.1021/cr800325e).
76.
Brandi, A.; Cicchi, S. Bicyclic 5-6 Systems with One Bridgehead (Ring Junction) Nitrogen Atom: No Extra Eteroatom O:O. In *Comprehensive Heterocyclic Chemistry III*; 2008; Vol. 11, pp. 367–408.
77.
Bonanni, M.; Marradi, M.; Cicchi, S.; Goti, A. Formal Mixed Double Addition to N-Glycosylnitrones through Addition-Oxidation-Addition to N-Glycosylhydroxylamines. *Synlett* **2008**, 197–202, doi:[10.1055/s-2007-1000934](https://doi.org/10.1055/s-2007-1000934).
78.
Revuelta, J.; Cicchi, S.; Goti, A.; Brandi, A. Enantiopure Cyclic Nitrones: A Useful Class of Building Blocks for Asymmetric Syntheses. *Synthesis* **2007**, 485–504, doi:[10.1055/s-2007-965914](https://doi.org/10.1055/s-2007-965914).
79.
Gentili, P.L.; Mugnai, M.; Bussotti, L.; Righini, R.; Foggi, P.; Cicchi, S.; Ghini, G.; Viviani, S.; Brandi, A. The Ultrafast Energy Transfer Process in Naphthole-Nitrobenzofurazan Bichromophoric Molecular Systems. A Study by Femtosecond UV-Vis Pump-Probe Spectroscopy. *Journal of Photochemistry and Photobiology A: Chemistry* **2007**, *187*, 209–221, doi:[10.1016/j.jphotochem.2006.10.020](https://doi.org/10.1016/j.jphotochem.2006.10.020).
80.
Cicchi, S.; Ghini, G.; Lascialfari, L.; Brandi, A.; Betti, F.; Berti, D.; Ferrati, S.; Baglioni, P. A New Organogelator Based on an Enantiopure C2 Symmetric Pyrrolidine. *Chemical Communications* **2007**, 1424–1426, doi:[10.1039/b614311c](https://doi.org/10.1039/b614311c).
- 81.

- Cicchi, S.; Faggi, C.; Ghini, G.; Guerri, A.; Parlanti, J. (3S,4S)-1-Benzyl-4-(N-Octylcarbamoyl-Oxy)Pyrrolidin-3-Yl N-Octylcarbamate: A Low-Temperature Redetermination. *Acta Crystallographica Section E: Structure Reports Online* **2007**, 63, doi:[10.1107/S160053680702572X](https://doi.org/10.1107/S160053680702572X).
- 82.
- Cicchi, S.; Cordero, F.M.; Giomi, D. *Chapter 5.7 Five-Membered Ring Systems with O & N Atoms*; Progress in Heterocyclic Chemistry; 2007; Vol. 18, p. 309;.
- 83.
- Bonanni, M.; Marradi, M.; Cardona, F.; Cicchi, S.; Goti, A. Synthesis of Densely Functionalized Enantiopure Indolizidines by Ring-Closing Metathesis (RCM) of Hydroxylamines from Carbohydrate-Derived Nitrones. *Beilstein Journal of Organic Chemistry* **2007**, 3, doi:[10.1186/1860-5397-3-44](https://doi.org/10.1186/1860-5397-3-44).
- 84.
- Revuelta, J.; Cicchi, S.; Faggi, C.; Kozhushkov, S.I.; De Meijere, A.; Brandi, A. Synthesis of Enantiopure Indolizinones by Cascade Ring Enlargements of 4'-Chlorospiro[Cyclopropane-1,5'-Isoxazolidines]. *Journal of Organic Chemistry* **2006**, 71, 2417–2423, doi:[10.1021/jo052564x](https://doi.org/10.1021/jo052564x).
- 85.
- Cicchi, S.; Marradi, M.; Vogel, P.; Goti, A. One-Pot Synthesis of Cyclic Nitrones and Their Conversion to Pyrrolizidines: 7a-Epi-Crotanecine Inhibits α -Mannosidases. *Journal of Organic Chemistry* **2006**, 71, 1614–1619, doi:[10.1021/jo0523518](https://doi.org/10.1021/jo0523518).
- 86.
- Revuelta, J.; Cicchi, S.; Brandi, A. Two-Step Metal-Mediated Transformation of Isoxazolidine-5- Spirocyclopropanes into Pyridone Derivatives. *Journal of Organic Chemistry* **2005**, 70, 5636–5642, doi:[10.1021/jo050640q](https://doi.org/10.1021/jo050640q).
- 87.
- Marradi, M.; Cicchi, S.; Ignacio Delso, J.; Rosi, L.; Tejero, T.; Merino, P.; Goti, A. Straightforward Synthesis of Enantiopure 2-Aminomethyl and 2-Hydroxymethyl Pyrrolidines with Complete Stereocontrol. *Tetrahedron Letters* **2005**, 46, 1287–1290, doi:[10.1016/j.tetlet.2004.12.119](https://doi.org/10.1016/j.tetlet.2004.12.119).
- 88.
- Cicchi, S.; Cordero, F.M.; Giomi, D. *Chapter 5.7 Five-Membered Ring Systems with O & N Atoms*; Progress in Heterocyclic Chemistry; 2005; Vol. 16, p. 308;.
- 89.
- Bonanni, M.; Marradi, M.; Cicchi, S.; Faggi, C.; Goti, A. Double Addition of Grignard Reagents to N-Glycosyl Nitrones: A New Tool for the Construction of Enantiopure Azaheterocycles. *Organic Letters* **2005**, 7, 319–322, doi:[10.1021/ol047691e](https://doi.org/10.1021/ol047691e).
- 90.
- Revuelta, J.; Cicchi, S.; Brandi, A. Samarium(II) Iodide Reduction of Isoxazolidines. *Tetrahedron Letters* **2004**, 45, 8375–8377, doi:[10.1016/j.tetlet.2004.09.050](https://doi.org/10.1016/j.tetlet.2004.09.050).
- 91.
- Merino, P.; Revuelta, J.; Tejero, T.; Cicchi, S.; Goti, A. Fully Stereoselective Nucleophilic Addition to a Novel Chiral Pyrroline N-Oxide: Total Syntheses of (2S,3R)-3-Hydroxy-3-Methylproline and Its (2R)-Epimer. *European Journal of Organic Chemistry* **2004**, 776–782, doi:[10.1002/ejoc.200300608](https://doi.org/10.1002/ejoc.200300608).
- 92.

- Richichi, B.; Cicchi, S.; Chiacchio, U.; Romeo, G.; Brandi, A. Stereoselective Synthesis of New Bicyclic N,O-Iso-Homonucleoside Analogues. *Tetrahedron* **2003**, *59*, 5231–5240, doi:[10.1016/S0040-4020\(03\)00772-5](https://doi.org/10.1016/S0040-4020(03)00772-5).
- 93.
- Pulz, R.; Cicchi, S.; Brandi, A.; Reißig, H.-U. Synthesis of New Enantiopure Bicyclic 1,2-Oxazines by Addition of Lithiated Methoxyallene to Chiral Cyclic Nitrones. *European Journal of Organic Chemistry* **2003**, 1153–1156, doi:[10.1002/ejoc.200390169](https://doi.org/10.1002/ejoc.200390169).
- 94.
- Merino, P.; Tejero, T.; Revuelta, J.; Romero, P.; Cicchi, S.; Mannucci, V.; Brandi, A.; Goti, A. A Comparative Study of the Stereoselective Addition of Trimethylsilyl Cyanide and Diethylaluminum Cyanide to Chiral Cyclic Nitrones. *Tetrahedron Asymmetry* **2003**, *14*, 367–379, doi:[10.1016/S0957-4166\(02\)00832-7](https://doi.org/10.1016/S0957-4166(02)00832-7).
- 95.
- Goti, A.; Cicchi, S.; Mannucci, V.; Cardona, F.; Guarna, F.; Merino, P.; Tejero, T. Iterative Organometallic Addition to Chiral Hydroxylated Cyclic Nitrones: Highly Stereoselective Syntheses of α,α' - and α,α -Substituted Hydroxypyrrolidines. *Organic Letters* **2003**, *5*, 4235–4238, doi:[10.1021/ol035798g](https://doi.org/10.1021/ol035798g).
- 96.
- Cicchi, S.; Revuelta, J.; Zanobini, A.; Betti, M.; Brandi, A. Domino Palladium(II)-Mediated Rearrangement-Oxidative Cyclization of β -Aminocyclopropanols. *Synlett* **2003**, 2305–2308, doi:[10.1055/s-2003-42122](https://doi.org/10.1055/s-2003-42122).
- 97.
- Cicchi, S.; Paschetta, V.; Brandi, A. A New 3,4-Dihydroxypyrrolidine-Based Material for Molecular Recognition. *Arkivoc* **2003**, 2003, 98–106.
- 98.
- Cicchi, S.; Marradi, M.; Corsi, M.; Faggi, C.; Goti, A. Preparation of N-Glycosylhydroxylamines and Their Oxidation to Nitrones for the Enantioselective Synthesis of Isoxazolidines. *European Journal of Organic Chemistry* **2003**, 4152–4161, doi:[10.1002/ejoc.200300353](https://doi.org/10.1002/ejoc.200300353).
- 99.
- Cicchi, S.; Cordero, F.M.; Giomi, D. Chapter 5.7 Five-Membered Ring Systems: With O&N Atoms; Progress in Heterocyclic Chemistry; 2003; Vol. 15, p. 283;.
- 100.
- Cicchi, S.; Bonanni, M.; Cardona, F.; Revuelta, J.; Goti, A. Indium-Mediated Reduction of Hydroxylamines to Amines. *Organic Letters* **2003**, *5*, 1773–1776, doi:[10.1021/ol034434l](https://doi.org/10.1021/ol034434l).
- 101.
- Brandi, A.; Cicchi, S.; Cordero, F.M.; Goti, A. Heterocycles from Alkylidenecyclopropanes. *Chemical Reviews* **2003**, *103*, 1213–1269, doi:[10.1021/cr010005u](https://doi.org/10.1021/cr010005u).
- 102.
- Richichi, B.; Cicchi, S.; Chiacchio, U.; Romeo, G.; Brandi, A. Chemo-, Regio- and Stereoselective Mitsunobu Reaction of Unprotected Pyrimidine Bases with Hydroxypyrrolidines. *Tetrahedron Letters* **2002**, *43*, 4013–4015, doi:[10.1016/S0040-4039\(02\)00712-8](https://doi.org/10.1016/S0040-4039(02)00712-8).
- 103.

- Cicchi, S.; Corsi, M.; Marradi, M.; Goti, A. Practical Synthesis of N-Alkyl-N-Glycosylhydroxylamines, Multitalented Precursors of Enantiomerically Pure Nitrones. *Tetrahedron Letters* **2002**, 43, 2741–2743, doi:[10.1016/S0040-4039\(02\)00372-6](https://doi.org/10.1016/S0040-4039(02)00372-6).
- 104.
- Cicchi, S.; Corsi, M.; Brandi, A.; Goti, A. Straightforward Synthesis of Enantiomerically Pure (3S,4R)- and (3R,4S)-3,4-Isopropylidenedioxypyrroline 1-Oxide, Precursors of Functionalized Cis-Dihydroxy Azaheterocycles, by a Novel "One-Pot" Procedure. *Journal of Organic Chemistry* **2002**, 67, 1678–1681, doi:[10.1021/jo0157573](https://doi.org/10.1021/jo0157573).
- 105.
- Cicchi, S.; Cordero, F.M.; Giomi, D. *Chapter 5.7 Five-Membered Ring Systems: With O & N Atoms*; Progress in Heterocyclic Chemistry; 2002; Vol. 14, p. 256.
- 106.
- Brandi, A.; Cicchi, S.; Paschetta, V.; Gomez Pardo, D.; Cossy, J. A New Nitrone from C 2 Symmetric Piperidine for the Synthesis of Hydroxylated Indolizidinone. *Tetrahedron Letters* **2002**, 43, 9357–9359, doi:[10.1016/S0040-4039\(02\)02336-5](https://doi.org/10.1016/S0040-4039(02)02336-5).
- 107.
- De Meijere, A.; Von Seebach, M.; Kozhushkov, S.I.; Boese, R.; Bläser, D.; Cicchi, S.; Dimoulas, T.; Brandi, A. Cyclobutylidenecyclopropane: New Synthesis and Use in 1,3-Dipolar Cycloadditions - A Direct Route to Spirocyclopropane-Annulated Azepinone Derivatives. *European Journal of Organic Chemistry* **2001**, 3789–3795, doi:[10.1002/1099-0690\(200110\)2001:20<3789::AID-EJOC3789>3.0.CO;2-Q](https://doi.org/10.1002/1099-0690(200110)2001:20<3789::AID-EJOC3789>3.0.CO;2-Q).
- 108.
- Cicchi, S.; Marradi, M.; Goti, A.; Brandi, A. Manganese Dioxide Oxidation of Hydroxylamines to Nitrones. *Tetrahedron Letters* **2001**, 42, 6503–6505, doi:[10.1016/S0040-4039\(01\)01222-9](https://doi.org/10.1016/S0040-4039(01)01222-9).
- 109.
- Cicchi, S.; Cordero, F.M.; Giomi, D. *Chapter 5.7 Five-Membered Ring Systems: With O & N Atoms*; Progress in Heterocyclic Chemistry; 2001; Vol. 13, p. 237.
- 110.
- Brandi, A.; Cicchi, S.; Brandl, M.; Kozhushkov, S.I.; De Meijere, A. Cyclopentene Anellation on Assorted Heterocyclic Skeletons by Vinylcyclopropane Rearrangement. *Synlett* **2001**, 433–435, doi:[10.1055/s-2001-11396](https://doi.org/10.1055/s-2001-11396).
- 111.
- Goti, A.; Cicchi, S.; Cacciarini, M.; Cardona, F.; Fedi, V.; Brandi, A. Straightforward Access to Enantiomerically Pure, Highly Functionalized Pyrrolizidines by Cycloaddition of Maleic Acid Esters to Pyrroline N-Oxides Derived from Tartaric, Malic and Aspartic Acids - Synthesis of (-)-Hastanecine, 7-Epi-Croalbinecine and (-)-Croalbinecine. *European Journal of Organic Chemistry* **2000**, 3633–3645, doi:[10.1002/1099-0690\(200011\)2000:21<3633::aid-ejoc3633>3.3.co;2-w](https://doi.org/10.1002/1099-0690(200011)2000:21<3633::aid-ejoc3633>3.3.co;2-w).
- 112.
- Cicchi, S.; Ponzoli, P.; Goti, A.; Brandi, A. Synthesis of Enantiopure Protected 3-Hydroxy-4-Amino Pyrroline N-Oxides. *Tetrahedron Letters* **2000**, 41, 1583–1587, doi:[10.1016/S0040-4039\(99\)02335-7](https://doi.org/10.1016/S0040-4039(99)02335-7).
- 113.
- Pietrusiewicz, K.M.; Holody, W.; Koprowski, M.; Cicchi, S.; Goti, A.; Brandi, A. Asymmetric and Doubly Asymmetric 1,3-Dipolar Cycloadditions in the Synthesis of Enantiopure Organophosphorus Compounds. *Phosphorus, Sulfur and Silicon and Related Elements* **1999**, 144–146, 389–392, doi:[10.1080/10426509908546263](https://doi.org/10.1080/10426509908546263).

114.
Goti, A.; Cicchi, S.; Cordero, F.M.; Fedi, V.; Brandi, A. A Straightforward Route to Enantiopure Pyrrolizidines and Indolizidines by Cycloaddition to Pyrroline N-Oxides Derived from the Chiral Pool. *Molecules* **1999**, *4*, 1–12, doi:[10.3390/4010001](https://doi.org/10.3390/4010001).
115.
Cicchi, S.; Corsi, M.; Goti, A. Inexpensive and Environmentally Friendly Oxidation of Hydroxylamines to Nitrones with Bleach. *Journal of Organic Chemistry* **1999**, *64*, 7243–7245, doi:[10.1021/jo990417r](https://doi.org/10.1021/jo990417r).
113.
Cicchi, S.; Cardona, F.; Brandi, A.; Corsi, M.; Goti, A. Oxidation of Hydroxylamines to Nitrones Catalyzed by (Salen)Mn(III) Complexes. Enantioselective Synthesis of a Protected Cis-Dihydroxypyrroline N-Oxide with Jacobsen Catalyst. *Tetrahedron Letters* **1999**, *40*, 1989–1992, doi:[10.1016/S0040-4039\(99\)00098-2](https://doi.org/10.1016/S0040-4039(99)00098-2).
117.
Cicchi, S.; Nunes Jr., J.; Goti, A.; Brandi, A. Formal Desymmetrization by a "Mitsunobu Trick" - Enantiomerically Pure Cis-3,4-Dihydroxypyrroline N-Oxides for the Enantiodivergent Synthesis of Trihydroxyindolizidines. *European Journal of Organic Chemistry* **1998**, 419–421, doi:[10.1002/\(SICI\)1099-0690\(199803\)1998:3<419::AID-EJOC419>3.0.CO;2-V](https://doi.org/10.1002/(SICI)1099-0690(199803)1998:3<419::AID-EJOC419>3.0.CO;2-V).
118.
Cicchi, S.; Goti, A.; Rosini, C.; Brandi, A. Enantiomerically Pure Dendrimers Based on a Trans-3,4-Dihydroxypyrrolidine. *European Journal of Organic Chemistry* **1998**, 2591–2597, doi:[10.1002/\(SICI\)1099-0690\(199811\)1998:11<2591::AID-EJOC2591>3.0.CO;2-Q](https://doi.org/10.1002/(SICI)1099-0690(199811)1998:11<2591::AID-EJOC2591>3.0.CO;2-Q).
119.
Cicchi, S.; Chierroni, E.; Goti, A.; Brandi, A.; Guerri, A.; Orioli, P. New Enantiomerically Pure Oligomeric Macrocycles Based on a 3,4-Dihydroxypyrrolidine Nucleus. *Journal of the Chemical Society - Perkin Transactions 1* **1998**, 367–370, doi:[10.1039/a703583g](https://doi.org/10.1039/a703583g).
120.
Goti, A.; Cicchi, S.; Fedi, V.; Nannelli, L.; Brandi, A. Synthesis of Enantiopure 3-Substituted Pyrroline N-Oxides by Highly Regioselective Oxidation of the Parent Hydroxylamines: A Mechanistic Rationale. *Journal of Organic Chemistry* **1997**, *62*, 3119–3125, doi:[10.1021/jo962372p](https://doi.org/10.1021/jo962372p).
121.
Cicchi, S.; Crea, S.; Goti, A.; Brandi, A. Synthesis of New Enantiopure γ -Aminoalcohols: Their Use as Catalysts in the Alkylation of Benzaldehyde by Diethylzinc. *Tetrahedron Asymmetry* **1997**, *8*, 293–301, doi:[10.1016/S0957-4166\(96\)00502-2](https://doi.org/10.1016/S0957-4166(96)00502-2).
122.
Machetti, F.; Anichini, B.; Cicchi, S.; Brandi, A.; Wieczorek, W.; Pietrusiewicz, K.M.; Gehret, J.-C. Synthesis and X-Ray Study of Hexahydro- and Tetrahydrophospholo-[2,3-d]isoxazoles, a New Class of Heterocycles of Potential Fungicidal Activity. *Journal of Heterocyclic Chemistry* **1996**, *33*, 1091–1098, doi:[10.1002/jhet.5570330416](https://doi.org/10.1002/jhet.5570330416).
123.
Cicchi, S.; Goti, A.; Brandi, A. A Five-Membered Enantiopure Cyclic Nitrone from Malic Acid by Regioselective Oxidation of Cyclic Hydroxylamine. Synthesis of (1S,7S,8aR)-Octahydro-1,7-Dihydroxyindolizine. *Journal of Organic Chemistry* **1995**, *60*, 4743–4748, doi:[10.1021/jo00120a016](https://doi.org/10.1021/jo00120a016).
- 124.

- Brandi, A.; Cicchi, S.; Gasparrini, F.; Maggio, F.; Villani, C.; Koprowski, M.; Pietrusiewicz, K.M. Direct Chromatographic Resolution of P-Chiral Phosphinoylethenes on a Chiral Stationary Phase Containing N,N'-(3,5-Dinitrobenzoyl)-Trans-1,2-Diaminocyclohexane as Selector. *Tetrahedron: Asymmetry* **1995**, 6, 2017–2022, doi:[10.1016/0957-4166\(95\)00262-N](https://doi.org/10.1016/0957-4166(95)00262-N).
- 125.
- Brandi, A.; Cicchi, S.; Cordero, F.M.; Frignoli, R.; Goti, A.; Picasso, S.; Vogel, P. Assignment of the Absolute Configuration of Natural Lentiginosine by Synthesis and Enzymatic Assays of Optically Pure (+) and (-)-Enantiomers. *Journal of Organic Chemistry* **1995**, 60, 6806–6812, doi:[10.1021/jo00126a033](https://doi.org/10.1021/jo00126a033).
- 126.
- Bianchini, C.; Cicchi, S.; Peruzzini, M.; Pietrusiewicz, K.M.; Brandi, A. A New P-Chiral Aminophosphine Ligand Containing a 2,2'-Coupled Pyrrolidine-Phospholane Ring System. Synthesis and Coordination Properties with Rhodium(I) and Iridium(I) Fragments. *Journal of the Chemical Society, Chemical Communications* **1995**, 833–834, doi:[10.1039/C39950000833](https://doi.org/10.1039/C39950000833).
- 127.
- Cordero, F.M.; Cicchi, S.; Goti, A.; Brandi, A. Synthesis of Lentiginosine by Stereoselective Chiral Nitron Cycloaddition and Thermal Rearrangement of Strained Spiroisoxazolidine. *Tetrahedron Letters* **1994**, 35, 949–952, doi:[10.1016/S0040-4039\(00\)76008-4](https://doi.org/10.1016/S0040-4039(00)76008-4).
- 128.
- Brandi, A.; Cicchi, S.; Goti, A.; Koprowski, M.; Pietrusiewicz, K.M. Kinetic Resolution in 1,3-Dipolar Cycloaddition of Tartaric Acid-Derived Nitrones to 2,3-Dihydro-1-Phenyl-1H-Phospholes. An Enantioselective Approach to the 2,2'-Coupled Pyrrolidine-Phospholane Ring System. *Journal of Organic Chemistry* **1994**, 59, 1315–1318, doi:[10.1021/jo00085a019](https://doi.org/10.1021/jo00085a019).
- 129.
- Cicchi, S.; Hödl, I.; Brandi, A. New Synthesis of Five-Membered Cyclic Nitrones from Tartaric Acid. *Journal of Organic Chemistry* **1993**, 58, 5274–5275, doi:[10.1021/jo00071a045](https://doi.org/10.1021/jo00071a045).
- 130.
- Goti, A.; Cicchi, S.; Brandi, A.; Pietrusiewicz, K.M. Erratum: Nitron Cycloadditions to 2,3-Dihydro-1-Phenyl-1H-Phosphole 1-Oxide. Double Asymmetric Induction and Kinetic Resolution by a Chiral Nitron (Tetrahedron: Asymmetry, 1991, 2, 1371-1378). *Tetrahedron Asymmetry* **1992**, 3, 671, doi:[10.1016/S0957-4166\(00\)80496-6](https://doi.org/10.1016/S0957-4166(00)80496-6).
- 131.
- Pietrusiewicz, K.M.; Wieczorek, W.; Cicchi, S.; Brandi, A. Crystal Structure and Stereochemistry of (PS*, 2S*, 3aS*)-hexahydro-2-(Tert-butylvinylthiophosphinyl)-6,6-Dimethylpyrrolo[1,2-b]isoxazole. *Heteroatom Chemistry* **1991**, 2, 661–664, doi:[10.1002/hc.520020609](https://doi.org/10.1002/hc.520020609).
- 132.
- Pietrusiewicz, K.M.; Salamonczyk, I.; Wieczorek, W.; Brandi, A.; Cicchi, S.; Goti, A. Direct Synthesis of Isoxazolidinylphosphines by Cycloaddition of Nitrones to Diphenylphosphinoethenes and X-Ray Structure of 7,7-Dimethyl-1-Oxo-1-Phenyl-3-Diphenylphosphinyl-Hexahydro-1H-Pyrrolo [1,2-c] [1,3,2] Oxazaphosphorine. *Tetrahedron* **1991**, 47, 9083–9096, doi:[10.1016/S0040-4020\(01\)86511-X](https://doi.org/10.1016/S0040-4020(01)86511-X).
- 133.
- Goti, A.; Cicchi, S.; Brandi, A.; Pietrusiewicz, K.M. Nitron Cycloadditions to 2,3-Dihydro-1-Phenyl-1H-Phosphole 1-Oxide. Double Asymmetric Induction and Kinetic Resolution by a Chiral Nitron. *Tetrahedron: Asymmetry* **1991**, 2, 1371–1378, doi:[10.1016/S0957-4166\(00\)80033-6](https://doi.org/10.1016/S0957-4166(00)80033-6).

134.

Brandi, A.; Cicchi, S.; Goti, A.; Pietrusiewicz, K.M.; Zablocka, M.; Wisniewski, W. Stereoselective Nitron Additions to Vinylphosphine Derivatives: Effect of Phosphorus Substituents on Reaction Diastereoselectivity. *Journal of Organic Chemistry* **1991**, *56*, 4383–4388, doi:[10.1021/jo00014a011](https://doi.org/10.1021/jo00014a011).

135.

Brandi, A.; Cicchi, S.; Goti, A.; Pietrusiewicz, K.M. Single and Double Asymmetric Induction in the Cycloaddition of Chiral Nitrones to Achiral and Chiral Vinylphosphine Oxides. *Tetrahedron: Asymmetry* **1991**, *2*, 1063–1074, doi:[10.1016/S0957-4166\(00\)86129-7](https://doi.org/10.1016/S0957-4166(00)86129-7).

136.

Brandi, A.; Cicchi, S.; Goti, A.; Michal Pietrusiewicz, K. Radical Addition to Vinylphosphine Oxides: 1,2-Stereoinduction of Phosphorus Stereogenic Centre. *Tetrahedron Letters* **1991**, *32*, 3265–3268, doi:[10.1016/S0040-4039\(00\)79740-1](https://doi.org/10.1016/S0040-4039(00)79740-1).

137.

Cicchi, S.; Goti, A.; Brandi, A.; Guarna, A.; De Sarlo, F. 1,3-Aminoalcohols by Reductive Cleavage of Isoxazolidines with Molybdenum Hexacarbonyl. *Tetrahedron Letters* **1990**, *31*, 3351–3354, doi:[10.1016/S0040-4039\(00\)89062-0](https://doi.org/10.1016/S0040-4039(00)89062-0).

138.

Brandi, A.; Cicchi, S.; Goti, A.; Michal Pietrusiewicz, K.; Wisniewski, W. The Regioselectivity of Nitron Cycloadditions to Vinyl Phosphorus Compounds. *Tetrahedron* **1990**, *46*, 7093–7104, doi:[10.1016/S0040-4020\(01\)87893-5](https://doi.org/10.1016/S0040-4020(01)87893-5).

EVENTS ORGANISATION

- Year 2006
- Congress National Chemistry Congress of the Italian Chemical Society
- Place Firenze
- Role Scientific Delegate of the Italian Chemical Society

- Year 2018
- Congress 22nd International Conference on Organic Synthesis (22-ICOS)
- Place Firenze
- Role Member of the Organising Committee.

- year 2021
- Congress 18th National Conference on Pericyclic Reactions and Synthesis of Hetero- and Carbocycles
- Place Firenze
- Role President of the Organising Committee.

PARTICIPATION IN RESEARCH PROJECTS

Joint projects

- Prin 1998: Synthesis, Study and biological activity of azaheterocycles, amino acids and non-natural peptides. Coordinatore scientifico: Carlo Scolastico. Protocol n° 9803153701_004.
- Prin 2000: Synthesis of azaheterocycles mimetic of Biologically active compounds . Coordinatore scientifico: Carlo Scolastico. Protocol n° MM03155477_004.
- Prin 2002: Stereoselective synthesis of pyrrolidine and highly functionalized bicyclic analogues and their insertion in Calixarene conjugates. Coordinatore scientifico: Rocco Ungaro. Protocol n° 2002032472_002.
- PRIN 2005: Stereoselective synthesis of polyhydroxilated azaheterocycles with antiviral activity. Coordinatore scientifico: Giovanni Romeo. Protocol n° 2005032057_003.
- Prin 2007: plasmonic nanostructures and their interaction with chromophores: towards photonic devices and new optical sensors. Coordinatore scientifico: Prof. Renato Bozio). Protocol n° 2007LN873M
FIRB Projects (Fund for promotion of fundamental research)
- Molecular compounds and nanostructured hybrid materials with resonating and non-resonating optical properties in photonic devices. Coordinatore scientifico: Prof. Renato Ugo"
- Nanotechnological approaches for theragnostic of cancer Coordinatore scientifico Prof. Maurizio Prato

Private Organisations

Ente Cassa Di Risparmio di Firenze (CRF) financed three times the proposed projects
 2008: Synthesis, study or the properties and application of new organic gelators
 2013: Nanostructured composites of carbon material and metal nanoparticles for application in catalysis depuration and nanomedicine.
 2017: Artificial Nanosponges

AIRC-CRF Multi-user Equipment Program 2016 "Advanced mass spectrometry tools for cancer research: novel applications in proteomics, metabolomics and nanomedicine" Group Leader

Regione Toscana project: "GlycoG-LAB 4.0 Nanoadditivo ad attività UV assorbente e Preservante" POR FESR Toscana 2014-2020. Research group member

REFERENCING ACTIVITIES

Main journals

TetrahedronLetters, .Actuators, C, Molecules, J. Mol. Liquid

PRIZES, AWARDS, MENTIONS AND DISTINCTIONS

Year • description

2010

Award for innovation in organic synthesis from the CINMPIS consortium

Member of the Italian Chemical Society since 1991. Vice-president since 2019 to 2023 of the Tuscany Section of the Italian Chemical Society.

**PERSONAL SKILLS AND
COMPETENCES
ACQUIRED IN THE COURSE OF
LIFE AND CAREER BUT NOT
NECESSARILY RECOGNISED BY
OFFICIAL CERTIFICATES AND
DIPLOMAS.**

MOTHER TONGUE

Italian

ALTRE LINGUE

English

- Reading skills
- Writing skills
- Oral expression

EXCELLENT

EXCELLENT

EXCELLENT

**TECHNICAL SKILLS AND
COMPETENCES
WITH COMPUTERS, SPECIFIC
EQUIPMENT, MACHINERY, ETC..**

Knowledge and use of modern instrumental techniques (1D- and 2D-NMR, GC, MS, FT-IR, HPLC, UV-vis) and purification methods (Extraction, Chromatography, Crystallisation, Distillation).

Preparation, purification and structural and functional characterisation of organic and inorganic nanoparticles. Preparation of synthetic intermediates and molecules with biological activity. Design and synthesis of heterocyclic and carbocyclic compounds.

Knowledge and use of characterisation techniques for organic and hybrid materials and nanomaterials: Transmission Electron Microscopy (TEM), Thermogravimetric Analysis (TGA).

Knowledge of Microsoft Windows and main software (Office, ChemOffice, Internet).
Origin.

Actual research interest

The research is focused on the use of new nanostructured materials (graphene, carbon nanotubes and nanocellulose) to biomedical applications. The activity concerns the modification of nanomaterials to obtain water dispersible products decorated with biologically active compounds. The applications aim to the development of new drug delivering systems or antimicrobial surfaces

I authorise the processing of the personal data contained in my curriculum vitae in accordance with art. 13 of Legislative Decree 196/2003.

Sesto Fiorentino 31/10/2024

Stefano Cicchi



