



## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s) **Marco Pierini**  
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E-mail marco.pierini@uniroma1.it  
Nationality Italian  
Date of birth 25/2/1958  
Gender Male

Occupational field University Associate Professor in Organic Chemistry

### Work experience

Dates Since January 2011

Occupation or position held University Associate Professor, on 04/04/2017 enabled to the role of Full Professor  
Main activities and responsibilities Ordinary lecturer of the courses of "Organic Chemistry" and "Organic Chemistry of Natural Products"  
Research activity in the fields:  
- stereochemical lability of organic compounds;  
- molecular recognition mechanisms, preferentially involving chiral and/or biologically active species;  
- studies based on LFER analyses and development of new descriptors of solvent effect  
Name and address of employer University "La Sapienza" of Rome

Dates from 2001 to 2010

Occupation or position held **University Researcher**  
Main activities and responsibilities Temporary lecturer of the courses of "Organic Chemistry" and "Supramolecular Chemistry"  
Research activity in the fields:  
- stereochemical lability of organic compounds;  
- molecular recognition mechanisms, preferentially involving chiral and/or biologically active species;  
- studies based on LFER analyses and development of new descriptors of solvent effect  
Name and address of employer University "La Sapienza" of Rome

Dates from 1998 to 2001

Occupation or position held University Researcher

Main activities and responsibilities Temporary lecturer of the courses of "Heterocyclic Chemistry" and "Stereochemistry"  
 Research activity in the fields:  
 - stereochemical lability of organic compounds;  
 - molecular recognition mechanisms, preferentially involving chiral and/or biologically active species;

Name and address of employer University "G. D'Annunzio" of Chieti

Dates from 1995 to 1996

Occupation or position held Contract Professor

Main activities and responsibilities Lecturer of the course of "Organic Chemistry"

Name and address of employer University "La Sapienza" in Rome

Dates from 1988 to 1998

Occupation or position held Regular teacher in Chemistry within the Italian Secondary School

Main activities and responsibilities Lecturer of the courses of "Inorganic Chemistry" and "Buildings Materials"

Name and address of employer ITIS C. & N. Rosselli of Aprilia

Dates on 1987

Occupation or position held Chemist within Pharmaceutical Analytical Laboratories

Main activities and responsibilities Analyst

Name and address of employer Sigma-Tau Research, Inc. of Rome

Self-assessment European level (*) English Language	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
	A2	B1	B1	B1	B2

(\*) [Common European Framework of Reference for Languages](http://www.cedefop.europa.eu/en/content/framework)

## Publications

- 1 Ferretti R., Carradori S., Guglielmi P., Pierini M., Casulli A., Cirilli R.  
 Enantiomers of triclobandazole sulfoxide: Analytical and semipreparative HPLC separation, absolute configuration assignment, and transformation into sodium salt  
 (2017) Journal of Pharmaceutical and Biomedical Analysis, 140, pp. 38–44.
- 2 Rizzo S., Arnaboldi S., Mihali V., Cirilli R., Forni A., Gennaro A., Isse A. A., Pierini M., Mussini P. R., Sannicolò F.  
 Inherently Chiral" Ionic-Liquid Media: Effective Chiral Electroanalysis on Achiral Electrodes  
 (2017) Angew. Chem. Int. Ed., 56, pp.1–5

- 3** Gabrieli S., Cirilli R., Benincori T., Pierini M., Rizzo S., Rossi S.  
BITHIENOLs: Promising C<sub>2</sub>-Symmetric Biheteroaromatic Diols for Organic Transformation  
(2017) *Eur. J. Org. Chem.*, pp.861–870
- 4** Pierini M., Carradori S., Menta S., Secci D., Cirilli R.  
3-(Phenyl-4-oxy)-5-phenyl-4,5-dihydro-(1H)-pyrazole: A fascinating molecular framework to study the enantioseparation ability of the amylose (3,5-dimethylphenylcarbamate) chiral stationary phase. Part II. Solvophobic effects in enantio-recognition process  
(2017) *Journal of Chromatography A*, in press.
- 5** Carradori, S., Pierini, M., Menta, S., Secci, D., Fioravanti, R., Cirilli, R.  
3-(Phenyl-4-oxy)-5-phenyl-4,5-dihydro-(1H)-pyrazole: A fascinating molecular framework to study the enantioseparation ability of the amylose (3,5-dimethylphenylcarbamate) chiral stationary phase. Part I. Structure-enantioselectivity relationships  
(2016) *Journal of Chromatography A*, 1467, pp. 221-227.
- 6** Ismail, O.H., Ciogli, A., Villani, C., De Martino, M., Pierini, M., Cavazzini, A., Bell, D.S., Gasparri, F.  
Ultra-fast high-efficiency enantioseparations by means of a teicoplanin-based chiral stationary phase made on sub-2 $\mu$ m totally porous silica particles of narrow size distribution  
(2016) *Journal of Chromatography A*, 1427, pp. 55-68.
- 7** Ammazalorso, A., De Filippis, B., Maccallini, C., Pierini, M.  
Synthetic strategies to serine-proline chimeras: An overview  
(2016) *Current Bioactive Compounds*, 12 (3), pp. 136-145.
- 8** Menta, S., Carradori, S., Siani, G., Secci, D., Mannina, L., Sobolev, A.P., Cirilli, R., Pierini, M.  
Elucidation of the mechanisms governing the thermal diastereomerization of bioactive chiral 1,3,4-thiadiazoline spiro-cyclohexyl derivatives towards their anancomeric stereoisomers  
(2016) *RSC Advances*, 6 (75), pp. 71262-71272.
- 9** Menta, S., Carradori, S., Secci, D., Faggi, C., Mannina, L., Cirilli, R., Pierini, M.  
The Anancomeric Character of the Pharmacophore 1,3,4-Thiadiazoline Framework in Chiral Spiro-Cyclohexyl Derivatives: Effects on Stereochemistry and Spiro-Junction Lability. Thermodynamic Aspects  
(2015) *Journal of Organic Chemistry*, 80 (24), pp. 11932-11940.
- 10** Rizzo, S., Menta, S., Benincori, T., Ferretti, R., Pierini, M., Cirilli, R., Sannicolò, F.  
Determination of the Enantiomerization Barrier of the Residual Enantiomers of C<sub>3</sub>-Symmetric Tris[3-(1-Methyl-2-Alkyl)Indolyl]Phosphane Oxides: Case Study of a Multitasking HPLC Investigation Based on an Immobilized Polysaccharide Stationary Phase  
(2015) *Chirality*, 27 (12), pp. 888-899.
- 11** Menta, S., Pierini, M., Cirilli, R., Grisi, F., Perfetto, A., Ciogli, A.  
Stereolability of Chiral Ruthenium Catalysts with Frozen NHC Ligand Conformations Investigated by Dynamic-HPLC  
(2015) *Chirality*, 27 (10), pp. 685-692.
- 12** Arnaboldi, S., Cirilli, R., Forni, A., Gennaro, A., Isse, A.A., Mihali, V., Mussini, P.R., Pierini, M., Rizzo, S., Sannicolò, F.  
Electrochemistry and Chirality in Bibenzimidazole Systems

(2015) *Electrochimica Acta*, 179, pp. 250-262.

**13** Cavazzini, A., Marchetti, N., Guzzinati, R., Pierini, M., Ciogli, A., Kotoni, D., D'Acquarica, I., Villani, C., Gasparrini, F.

Enantioseparation by ultra-high-performance liquid chromatography

(2014) *TrAC - Trends in Analytical Chemistry*, 63, pp. 95-103.

**14** Ghirga, F., Quaglio, D., Iovine, V., Botta, B., Pierini, M., Mannina, L., Sobolev, A.P., Ugozzoli, F., D'Acquarica, I.

Synthesis of a double-spanned resorc[4]arene via ring-closing metathesis and calculation of aggregation propensity

(2014) *Journal of Organic Chemistry*, 79 (22), pp. 11051-11060.

**15** Sannicolò, F., Arnaboldi, S., Benincori, T., Bonometti, V., Cirilli, R., Dunsch, L., Kutner, W., Longhi, G., Mussini, P.R., Panigati, M., Pierini, M., Rizzo, S.

Potential-driven chirality manifestations and impressive enantioselectivity by inherently chiral electroactive organic films

(2014) *Angewandte Chemie - International Edition*, 53 (10), pp. 2623-2627.

**16** Bernini, R., Crisante, F., Gentili, P., Menta, S., Morana, F., Pierini, M.

Unexpected different chemoselectivity in the aerobic oxidation of methylated planar catechin and bent epicatechin derivatives catalysed by the *Trametes villosa* laccase/1-hydroxybenzotriazole system

(2014) *RSC Advances*, 4 (16), pp. 8183-8190.

**17** Rizzo, S., Cirilli, R., Pierini, M.

Chirality in the absence of rigid stereogenic elements: Steric and electronic effects on the configurational stability of *c*<sub>3</sub> symmetric residual tris-aryl phosphanes

(2014) *Chirality*, 26 (10), pp. 601-606.

**18** Rizzo, S., Menta, S., Faggi, C., Pierini, M., Cirilli, R.

Influence of the nature of alkyl substituents on the high-performance liquid chromatography enantioseparation and retention of new atropisomeric 1,1'-bibenzimidazole derivatives on amylose tris(3,5-dimethylphenylcarbamate) chiral stationary phase

(2014) *Journal of Chromatography A*, 1363, pp. 128-136.

**19** Sabia, R., Ciogli, A., Pierini, M., Gasparrini, F., Villani, C.

Dynamic high performance liquid chromatography on chiral stationary phases. Low temperature separation of the interconverting enantiomers of diazepam, flunitrazepam, prazepam and tetrazepam

(2014) *Journal of Chromatography A*, 1363, pp. 144-149.

**20** Villani, C., D'Acquarica, I., Gasparrini, F., Ritchi, H., Kotoni, D., Pierini, M., Ciogli, A., Kocergin, J.

The evolution of chiral stationary phases from HPLC to UHPLC

(2014) *LC-GC Europe*, 27 (3).

**21** Kotoni, D., Piras, M., Cabri, W., Giorgi, F., Mazzanti, A., Pierini, M., Quaglia, M., Villani, C., Gasparrini, F.  
Thermodynamic and kinetic investigation of monoketo-aldehyde- peroxyhemiacetal (MKA), a stereolabile degradation product of dihydroartemisinin

(2014) *RSC Advances*, 4 (62), pp. 32847-32857.

**22** Ciogli, A., Kotoni, D., Gasparrini, F., Pierini, M., Villani, C.

Chiral Supramolecular selectors for Enantiomer differentiation in liquid chromatography

(2013) Topics in Current Chemistry, 340, pp. 73-106.

**23** Vaghi, L., Benincori, T., Cirilli, R., Alberico, E., Mussini, P.R., Pierini, M., Pilati, T., Rizzo, S., Sannicolò, F.  
Ph-tetrame-bithienine, the first member of the class of chiral heterophosphines: Synthesis, electronic and steric properties, metal complexes and catalytic activity

(2013) European Journal of Organic Chemistry, (36), pp. 8174-8184.

**24** Ghirga, F., D'Acquarica, I., Delle Monache, G., Mannina, L., Molinaro, C., Nevola, L., Sobolev, A.P., Pierini, M., Botta, B.

Reaction of nitrosonium cation with resorc[4]arenes activated by supramolecular control: Covalent bond formation

(2013) Journal of Organic Chemistry, 78 (14), pp. 6935-6946.

**25** Benincori, T., Bonometti, V., Cirilli, R., Mussini, P.R., Marchesi, A., Pierini, M., Pilati, T., Rizzo, S., Sannicolò, F.  
Steric and electronic effects on the configurational stability of residual chiral phosphorus-centered three-bladed propellers: Tris-aryl phosphane oxides

(2013) Chemistry - A European Journal, 19 (1), pp. 165-181.

**26** Rizzo, S., Benincori, T., Bonometti, V., Cirilli, R., Mussini, P.R., Pierini, M., Pilati, T., Sannicolò, F.  
Steric and electronic effects on the configurational stability of residual chiral phosphorus-centered three-bladed propellers: Tris-aryl phosphanes

(2013) Chemistry - A European Journal, 19 (1), pp. 182-194.

**27** Carradori, S., Cirilli, R., Dei Cicchi, S., Ferretti, R., Menta, S., Pierini, M., Secci, D.  
3-Methylcyclohexanone thiosemicarbazone: Determination of E/Z isomerization barrier by dynamic high-performance liquid chromatography, configuration assignment and theoretical study of the mechanisms involved by the spontaneous, acid and base catalyzed processes

(2012) Journal of Chromatography A, 1269, pp. 168-177.

**28** Ioan, P., Ciogli, A., Sirci, F., Budriesi, R., Cosimelli, B., Pierini, M., Severi, E., Chiarini, A., Cruciani, G., Gasparri, F., Spinelli, D., Carosati, E.

Absolute configuration and biological profile of two thiazinooxadiazol-3-ones with L-type calcium channel activity: A study of the structural effects

(2012) Organic and Biomolecular Chemistry, 10 (45), pp. 8994-9003.

**29** Rotili, D., Samuele, A., Tarantino, D., Ragno, R., Musmuca, I., Ballante, F., Botta, G., Morera, L., Pierini, M., Cirilli, R., Nawrozkij, M.B., Gonzalez, E., Clotet, B., Artico, M., Estè, J.A., Maga, G., Mai, A.

2-(Alkyl/Aryl)amino-6-benzylpyrimidin-4(3H)-ones as inhibitors of wild-type and mutant HIV-1: Enantioselectivity studies

(2012) Journal of Medicinal Chemistry, 55 (7), pp. 3558-3562.

**30** Levi Mortera, S., Sabia, R., Pierini, M., Gasparri, F., Villani, C.

The dynamic chromatographic behavior of tri-o-thymotide on HPLC chiral stationary phases

(2012) Chemical Communications, 48 (26), pp. 3167-3169.

**31** Angelini, G., Coletti, C., De Maria, P., Ballini, R., Gasbarri, C., Fontana, A., Pierini, M., Siani, G.

Effect of ring size on the tautomerization and ionization reaction of cyclic 2-nitroalkanones: An experimental and theoretical study

(2012) Journal of Organic Chemistry, 77 (2), pp. 899-907.

- 32** Ciogli, A., Fontana, A., Gasparrini, F., Maggini, M., Giovannoli, M., Pierini, M., Busolo, F., Siani, G., Villani, C.  
Inductive and Mesomeric Effects of the [60]Fulleropyrrolidine Fragment and [60]Fullerene Sphere: A Quantitative Evaluation Based on Theory and Experiments  
(2012) *European Journal of Organic Chemistry*, (1), pp. 193-202.
- 33** Frascchetti, C., Pierini, M., Villani, C., Gasparrini, F., Mortera, S.L., Filippi, A., Speranza, M.  
Facial control of gas-phase enantioselectivity of strapped tetra-amide macrocycles  
(2011) *Rendiconti Lincei*, 22 (3), pp. 191-199.
- 34** Uccello-Barretta, G., Balzano, F., Martinelli, J., Gasparrini, F., Pierini, M., Villani, C.  
NMR and computational investigations of the chiral discrimination processes involving a cyclic tetraamidic chiral selector  
(2011) *European Journal of Organic Chemistry*, (20-21), pp. 3738-3747.
- 35** Badaloni, E., Barbarino, M., Cabri, W., D'Acquarica, I., Forte, M., Gasparrini, F., Giorgi, F., Pierini, M., Simone, P., Ursini, O., Villani, C.  
Efficient organic monoliths prepared by  $\gamma$ -radiation induced polymerization in the evaluation of histone deacetylase inhibitors by capillary(nano)-high performance liquid chromatography and ion trap mass spectrometry  
(2011) *Journal of Chromatography A*, 1218 (25), pp. 3862-3875.
- 36** Cabri, W., D'Acquarica, I., Simone, P., Iorio, M.D., Mattia, M.D., Gasparrini, F., Giorgi, F., Mazzanti, A., Pierini, M., Quaglia, M., Villani, C.  
Stereolability of dihydroartemisinin, an antimalarial drug: A comprehensive kinetic investigation. Part 2  
(2011) *Journal of Organic Chemistry*, 76 (12), pp. 4831-4840.
- 37** Cabri, W., D'Acquarica, I., Simone, P., Di Iorio, M., Di Mattia, M., Gasparrini, F., Giorgi, F., Mazzanti, A., Pierini, M., Quaglia, M., Villani, C.  
Stereolability of dihydroartemisinin, an antimalarial drug: A comprehensive thermodynamic investigation. Part 1  
(2011) *Journal of Organic Chemistry*, 76 (6), pp. 1751-1758.
- 38** Frascchetti, C., Pierini, M., Villani, C., Gasparrini, F., Mortera, S.L., Filippi, A., Speranza, M.  
The "bridge" game: Role of the fourth player in chiral recognition  
(2011) *Chemistry - A European Journal*, 17 (11), pp. 3078-3081.
- 39** Bernini, R., Crisante, F., Gentili, P., Morana, F., Pierini, M., Piras, M.  
Chemoselective C-4 aerobic oxidation of catechin derivatives catalyzed by the *trametes villosa* laccase/1-hydroxybenzotriazole system: Synthetic and mechanistic aspects  
(2011) *Journal of Organic Chemistry*, 76 (3), pp. 820-832.
- 40** Sannicolò, F., Rizzo, S., Benincori, T., Kutner, W., Noworyta, K., Sobczak, J.W., Bonometti, V., Falcicola, L., Mussini, P.R., Pierini, M.  
An effective multipurpose building block for 3D electropolymerisation: 2,2'-Bis(2,2'-bithiophene-5-yl)-3,3'-bithianaphthene  
(2010) *Electrochimica Acta*, 55 (27), pp. 8352-8364.
- 41** Cirilli, R., Ferretti, R., La Regina, G., Morelli, G., Pierini, M., Piscitelli, F., Silvestri, R.  
Enantioselective HPLC combined with spectroscopic methods: A valid strategy to determine the absolute configuration of potential  $\beta$ -secretase inhibitors  
(2010) *Talanta*, 82 (4), pp. 1306-1312.

- 42** Lunazzi, L., Mancinelli, M., Mazzanti, A., Pierini, M.  
Stereomutation of axially chiral aryl coumarins  
(2010) *Journal of Organic Chemistry*, 75 (17), pp. 5927-5933.
- 43** Angelini, G., De Maria, P., Chiappe, C., Fontana, A., Pierini, M., Siani, G.  
Basicity of pyridine and some substituted pyridines in ionic liquids  
(2010) *Journal of Organic Chemistry*, 75 (11), pp. 3912-3915.
- 44** D'Acquarica, I., Gasparrini, F., Kotoni, D., Pierini, M., Villani, C., Cabri, W., Di Mattia, M., Giorgi, F.  
Stereodynamic investigation of labile stereogenic centres in dihydroartemisinin  
(2010) *Molecules*, 15 (3), pp. 1309-1323.
- 45** Cancelliere, G., Ciogli, A., D'Acquarica, I., Gasparrini, F., Kocergin, J., Misiti, D., Pierini, M., Ritchie, H., Simone, P., Villani, C.  
Transition from enantioselective high performance to ultra-high performance liquid chromatography: A case study of a brush-type chiral stationary phase based on sub-5-micron to sub-2-micron silica particles  
(2010) *Journal of Chromatography A*, 1217 (7), pp. 990-999.
- 46** Frascchetti, C., Pierini, M., Villani, C., Gasparrini, F., Mortera, S.L., Speranza, M.  
Towards enzyme-like enantioselectivity in the gas phase: Conformational control of selectivity in chiral macrocyclic dimers  
(2009) *Chemical Communications*, (36), pp. 5430-5432.
- 47** Cirilli, R., Costi, R., Di Santo, R., La Torre, F., Pierini, M., Siani, G.  
Perturbing effects of chiral stationary phase on enantiomerization second-order rate constants determined by enantioselective dynamic high-performance liquid chromatography: A practical tool to quantify the accessible acid and basic catalytic sites bonded on chromatographic supports  
(2009) *Analytical Chemistry*, 81 (9), pp. 3560-3570.
- 48** Cirilli, R., Costi, R., Di Santo, R., Gasparrini, F., La Torre, F., Pierini, M., Siani, G.  
A rational approach to predict and modulate stereolability of chiral  $\hat{\pm}$  substituted ketones  
(2009) *Chirality*, 21 (1), pp. 24-34.
- 49** Villani, C., Gasparrini, F., Pierini, M., Mortera, S.L., D'Acquarica, I., Ciogli, A., Zappia, G.  
Dynamic HPLC of stereolabile iron(II) complexes on Chiral-Stationary phases  
(2009) *Chirality*, 21 (1), pp. 97-103.
- 50** Frascchetti, C., Pierini, M., Villani, C., Gasparrini, F., Filippi, A., Speranza, M.  
Gas-phase structure and relative stability of proton-bound homo- and heterochiral clusters of tetra-amide macrocycles with amines  
(2009) *Collection of Czechoslovak Chemical Communications*, 74 (2), pp. 275-297.
- 51** Siani, G., Angelini, G., De Maria, P., Fontana, A., Pierini, M.  
Solvent effects on the rate of the keto-enol interconversion of 2-nitrocyclohexanone  
(2008) *Organic and Biomolecular Chemistry*, 6 (22), pp. 4236-4241.

- 52** Cabri, W., Ciogli, A., D'Acquarica, I., Di Mattia, M., Galletti, B., Gasparrini, F., Giorgi, F., Lalli, S., Pierini, M., Simone, P.  
On-column epimerization of dihydroartemisinin: An effective analytical approach to overcome the shortcomings of the International Pharmacopoeia monograph  
(2008) *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, 875 (1), pp. 180-191.
- 53** Ciogli, A., Dalla Cort, A., Gasparrini, F., Lunazzi, L., Mandolini, L., Mazzanti, A., Pasquini, C., Pierini, M., Schiaffino, L., Mihan, F.Y.  
Enantiomerization of chiral uranyl-salophen complexes via unprecedented ligand hemilability: Toward configurationally stable derivatives  
(2008) *Journal of Organic Chemistry*, 73 (16), pp. 6108-6118.
- 54** Botta, B., Pierini, M., Monache, G.D., Subissati, D., Subrizi, F., Zappia, G.  
Synthesis of amino and ammonium resorc[4]arenes as potential receptors  
(2008) *Synthesis*, (13), pp. 2110-2116.
- 55** Gasparrini, F., Pierini, M., Villani, C., Filippi, A., Speranza, M.  
Induced-fit in the gas phase: Conformational effects on the enantioselectivity of chiral tetra-amide macrocycles  
(2008) *Journal of the American Chemical Society*, 130 (2), pp. 522-534.
- 56** D'Acquarica, I., Gasparrini, F., Misiti, D., Pierini, M., Villani, C.  
HPLC chiral stationary phases containing macrocyclic antibiotics: Practical aspects and recognition mechanism  
(2008) *Advances in Chromatography*, 46, pp. 109-173.
- 57** Cirilli, R., Ferretti, R., La Torre, F., Secci, D., Bolasco, A., Carradori, S., Pierini, M.  
High-performance liquid chromatographic separation of enantiomers and diastereomers of 2-methylcyclohexanone thiosemicarbazone, and determination of absolute configuration and configurational stability  
(2007) *Journal of Chromatography A*, 1172 (2), pp. 160-169.
- 58** Botta, B., D'Acquarica, I., Delle Monache, G., Nevola, L., Tullo, D., Ugozzoli, F., Pierini, M.  
Nitrosonium complexes of resorc[4]arenes: Spectral, kinetic, and theoretical studies  
(2007) *Journal of the American Chemical Society*, 129 (36), pp. 11202-11212.
- 59** Angelini, G., De Maria, P., Fontana, A., Pierini, M., Siani, G.  
Ionization and tautomerization of 2-nitrocyclohexanone in aqueous solution  
(2007) *Journal of Organic Chemistry*, 72 (11), pp. 4039-4047.
- 60** Alcaro, S., Gasparrini, F., Incani, O., Caglioti, L., Pierini, M., Villani, C.  
"Quasi flexible" automatic docking processing for studying stereoselective recognition mechanisms, part 2: Prediction of  $\Delta\Delta G$  of complexation and  $^1\text{H-NMR}$  NOE correlation  
(2007) *Journal of Computational Chemistry*, 28 (6), pp. 1119-1128.
- 61** D'Acquarica, I., Gasparrini, F., Pierini, M., Villani, C., Zappia, G.  
Dynamic HPLC on chiral stationary phases: A powerful tool for the investigation of stereomutation processes  
(2006) *Journal of Separation Science*, 29 (10), pp. 1508-1516.



- 62** Cort, A.D., Gasparrini, F., Lunazzi, L., Mandolini, L., Mazzanti, A., Pasquini, C., Pierini, M., Rompietti, R., Schiaffino, L.  
Stereomutations of atropisomers of sterically hindered salophen ligands  
(2005) *Journal of Organic Chemistry*, 70 (22), pp. 8877-8883.
- 63** Angelini, G., Chiappe, C., De Maria, P., Fontana, A., Gasparrini, F., Pieraccini, D., Pierini, M., Siani, G.  
Determination of the polarities of some ionic liquids using 2-nitrocyclohexanone as the probe  
(2005) *Journal of Organic Chemistry*, 70 (20), pp. 8193-8196.
- 64** Filippi, A., Gasparrini, F., Pierini, M., Speranza, M., Villani, C.  
Exceptional gas-phase enantioselectivity of chiral tetramide macrocycles  
(2005) *Journal of the American Chemical Society*, 127 (34), pp. 11912-11913.
- 65** Angelini, G., Cusan, C., De Maria, P., Fontana, A., Maggini, M., Pierini, M., Prato, M., Schergna, S., Villani, C.  
The associative properties of some amphiphilic fullerene derivatives  
(2005) *European Journal of Organic Chemistry*, (9), pp. 1884-1891.
- 66** Angelini, G., Cerichelli, G., Cerritelli, S., Pierini, M., Siani, G., Villani, C.  
An effective simulation of aqueous micellar aggregates by computational models  
(2005) *Journal of Computer-Aided Molecular Design*, 19 (4), pp. 259-269.
- 67** Cirilli, R., Ferretti, R., Gallinella, B., Turchetto, L., Bolasco, A., Secci, D., Chimenti, P., Pierini, M., Fares, V., Befani, O., La Torre, F.  
Enantiomers of C5-chiral 1-acetyl-3,5-diphenyl-4,5-dihydro-(1H)-pyrazole derivatives: Analytical and semipreparative HPLC separation, chiroptical properties, absolute configuration, and inhibitory activity against monoamine oxidase  
(2004) *Chirality*, 16 (9), pp. 625-636.
- 68** Gasparrini, F., Pierini, M., Villani, C., De Maria, P., Fontana, A., Ballini, R.  
Enantiomerization study of some  $\alpha$ -nitroketones by dynamic high-resolution gas chromatography  
(2003) *Journal of Organic Chemistry*, 68 (8), pp. 3173-3177.
- 69** Gasparrini, F., D'Acquarica, I., Misiti, D., Pierini, M., Villani, C.  
Natural and totally synthetic receptors in the innovative design of HPLC chiral stationary phases  
(2003) *Pure and Applied Chemistry*, 75 (2-3), pp. 407-412.
- 70** Gasparrini, F., Misiti, D., Pierini, M., Villani, C.  
A chiral A<sub>2</sub>B<sub>2</sub> macrocyclic minireceptor with extreme enantioselectivity  
(2002) *Organic Letters*, 4 (23), pp. 3993-3996.
- 71** Ammazalorso, A., Amoroso, R., Bettoni, G., De Filippis, B., Giampietro, L., Pierini, M., Tricca, M.L.  
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Book: "Extreme chromatography: faster, hotter, smaller"; Chapter 3: Chiral Separations. 2011.

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“HPLC Chiral Stationary Phases Containing Macrocyclic Antibiotics: Practical Aspects and Recognition Mechanism“

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