

Curriculum Vitae

Dr. Ilenia Pisagatti

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Ilenia Pisagatti was born in Messina, 18/07/1975. She graduated in Chemistry (cum laude) at the University of Messina in 1999 and she obtained her PhD in Chemistry from the same University in 2003, under the supervision of Prof. M. F. Parisi. After a six year as researcher fellow, she spent a two year experience as a process chemist at the academic spin-off ANMR srl. She rejoined Parisi's group in 2012 as researcher fellow and since 2015 she holds the position of technologist at the Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali of Messina. Her research interest focus on the design and synthesis of macrocyclic compounds (calixarenes, heterocalixarenes, pillararenes and cyclic amides) and their use as building blocks for the construction of supramolecular polymers, advanced nanomaterials and drug delivery systems.

The results of scientific research are reported in 37 publications (H-index 16) on peer reviewed international journals.

Relevant Publications

- P1 *Guest-induced capsular assembly of calix[5]arenes*, D. Garozzo, G. Gattuso, F. H. Kohnke, P. Malvagna, A. Notti, S. Occhipinti, S. Pappalardo, M. F. Parisi, I. Pisagatti, *Tetrahedron Lett.* **2002**, 43, 7663–7667.
- P2 *Inclusion Networks of a Calix[5]arene-Based Exoditopic Receptor and Long-Chain Alkyldiammonium Ions*, D. Garozzo, G. Gattuso, F. H. Kohnke, A. Notti, S. Pappalardo, M. F. Parisi, I. Pisagatti, A. J. P. White, D. J. Williams, *Org. Lett.* **2003**, 5, 4025–4028.
- P3 *A Calix[5]arene-Based Heterotetrotopic Host for the Molecular Recognition of Long-Chain Ion-Paired α,ω -Alkanediyldiammonium Salts*, D. Garozzo, G. Gattuso, A. Notti, A. Pappalardo, S. Pappalardo, M. F. Parisi, M. Perez, I. Pisagatti, *Angew. Chem. Int. Ed.* **2005** 44, 4892–4896.
- P4 *Counterion Dependent Proton-Driven Self-Assembly of Linear Supramolecular Oligomers Based on Amino-Calix[5]arene Building Blocks*, S. Pappalardo, V. Villari, S. Slovak, Y. Cohen, G. Gattuso, A. Notti, A. Pappalardo, I. Pisagatti, M. F. Parisi, *Chem. Eur. J.* **2007**, 13, 8164–8173.
- P5 *Self-Assembly Dynamics of Modular Homoditopic Bis calix[5]arenes and Long-Chained α,ω -Alkanediyldiammonium Components*, G. Gattuso, A. Notti, A. Pappalardo, M. F. Parisi, I. Pisagatti, S. Pappalardo, D. Garozzo, A. Messina, Y. Cohen, S. Slovak, *J. Org. Chem.* **2008**, 73, 7280–7289.
- P6 *Threading the Calix[5]arene Annulus*, G. Gattuso, A. Notti, M. F. Parisi, I. Pisagatti, M. E. Amato, A. Pappalardo, S. Pappalardo, *Chem. Eur. J.* **2010**, 16, 2381–2385.
- P7 *Recognition in water of bioactive substrates by a sulfonato *p*-tert-butylcalix[5]arene*, G. Gattuso, A. Notti, S. Pappalardo, M. F. Parisi, I. Pisagatti, *Supramol. Chem.*, **2014**, 26, 597–600.
- P8 *Probing the Inner Space of Salt-Bridged Calix[5]arene Capsules*, G. Brancatelli, G. Gattuso, S. Geremia, A. Notti, S. Pappalardo, M. F. Parisi, I. Pisagatti, *Org. Lett.*, **2014**, 16, 2354–2357.

- P9 *NMR investigations into the binding of monoamine neurotransmitters and trace amines to amphiphilic anionic calix[5]arene micelles*, G. Gattuso, S. Pappalardo, M. F. Parisi, I. Pisagatti, S. Patanè, *New J. Chem.*, **2014**, 38, 5983–5990.
- P10 *Encapsulation of monoamine neurotransmitters and trace amines by amphiphilic anionic calix[5]arene micelles*, G. Gattuso, A. Notti, M. F. Parisi, I. Pisagatti, P. M. Marcos, J. R. Ascenso, G. Brancatelli, S. Geremia, *New. J. Chem.*, **2015**, 39, 817–821.
- P11 *Complexation of biologically active amines by a water-soluble calix[5]arene: a nanocalorimetric investigation*, G. Arena, A. Pappalardo, S. Pappalardo, G. Gattuso, A. Notti, M. F. Parisi, I. Pisagatti, C. Sgarlata, *J. Therm. Anal. Calorim.*, **2015**, 121, 1073–1079.
- P12 *Self-assembly of amphiphilic anionic calix[4]arene and encapsulation of poorly soluble naproxen and flurbiprofen*, L. Barbera, G. Gattuso, F. H. Kohnke, A. Notti, S. Pappalardo, M. F. Parisi, I. Pisagatti, S. Patanè, N. Micali, V. Villari, *Org. Biomol. Chem.*, **2015**, 13, 6468–6473.
- P13 *Unique binding behavior of water-soluble polycationic oxacalix[4]arene tweezers towards the paraquat dication*, N. Manganaro, G. Lando, C. Gargiulli, I. Pisagatti, A. Notti, S. Pappalardo, M. F. Parisi, G. Gattuso, *Chem. Commun.*, **2015**, 51, 12657–12660.
- P14 *Calix[5]arene-based supramolecular polymers*, G. Gattuso, N. Manganaro, A. Notti, I. Pisagatti, S. Pappalardo, M. F. Parisi, *Curr. Org. Chem.*, **2015**, 19, 2271–2280.
- P15 *α,ω -Alkanediyldiammonium dications sealed within calix[5]arene capsules with a hydrophobic bayonet-mount fastening*, G. Brancatelli, G. Gattuso, S. Geremia, N. Manganaro, A. Notti, S. Pappalardo, M. F. Parisi, I. Pisagatti, *CrystEngComm*, **2015**, 17, 7915–7921.
- P16 *Encapsulation of biogenic polyamines by carboxylcalix[5]arenes: when solid-state design beats recognition in solution*, G. Brancatelli, G. Gattuso, S. Geremia, N. Manganaro, A. Notti, S. Pappalardo, M. F. Parisi, I. Pisagatti, *CrystEngComm*, **2016**, 18, 5012–5016.
- P17 *Calix[5]arene: from capsules to polymers*, M. F. Parisi, G. Gattuso, A. Notti, I. Pisagatti, S. Pappalardo, In *Calixarenes and beyond*, P. Neri, J. L. Sessler, M.-X. Wang, Eds., Springer International Publishing Switzerland, 2016, Chapter 5, pp. 95–111. [ISBN13: 978-3-319-31865-3], DOI 10.1007/978-3-319-31867-7_5.
- P18 *Porphyrim stacks as an efficient molecular glue to induce chirality in hetero-component calixarene-porphyrin assemblies*. A D'Urso, N. Marino, M. Gaeta, M. S. Rizzo, D. A. Cristaldi, M. E. Fragalà, S. Pappalardo, G. Gattuso, A. Notti, M. F. Parisi, I. Pisagatti, R. Purrello, *New. J. Chem.*, **2017**, 41, 8078–8083.
- P19 *Calix[5]arene Through-the-Annulus Threading of Dialkylammonium Guests Weakly Paired to the TFPB Anion*. M. De Rosa, C. Talotta, C. Gaeta, A. Soriente, P. Neri, S. Pappalardo, G. Gattuso, A. Notti, M. F. Parisi, I. Pisagatti, *J. Org. Chem.*, **2017**, 82, 5162–5168.
- P20 *A water-soluble pillar[5]arene as a new carrier for an old drug*. L. Barbera, D. Franco, L. M. De Plano, G. Gattuso, S. P. P. Guglielmino, G. Lentini, N. Manganaro, N. Marino, S. Pappalardo, M. F. Parisi, F. Puntoriero, I. Pisagatti, A. Notti, *Org. Biomol. Chem.*, **2017**, 15, 3192–3195.
- P21 *Ring-chain morphology control in overall-neutral, internally ion-paired supramolecular polymers*, N. Manganaro, I. Pisagatti, A. Notti, A. Pappalardo, S. Patanè, N. Micali, V. Villari, M. F. Parisi, G. Gattuso, *Chem. Eur. J.*, **2018**, 24, 1097–1103.
- P22 *Novel PEGylated calix[5]arenes as carriers for Rose Bengal*, I. Pisagatti, L. Barbera, G. Gattuso, S. Patanè, M. F. Parisi, A. Notti, *Supramol. Chem.*, **2018**, 30, 658–663.
- P23 *Recognition and optical sensing of amines by a quartz-bound 7-chloro-4-quinolylazopillar[5]arene monolayer*. Pisagatti, G. Gattuso, A. Notti, M. F. Parisi, G. Brancatelli, S. Geremia, F. Greco, S. Millesi, A. Pappalardo, L. Spitaleri, A. Gulino, *RSC Advances*, **2018**, 8, 33269–33275.
- P24 *Antiadhesive and antibacterial properties of pillar[5]arene-based multilayers*. L. Barbera, L. M. De Plano, D. Franco, G. Gattuso, S. P. P. Guglielmino, G. Lando, A. Notti, M. F. Parisi, I. Pisagatti, *Chem. Commun.*, **2018**, 54, 10203–10206.

P25 *Tuning the Aggregation of an Amphiphilic Anionic Calix[5]arene by Selective Interactions with Bola-type Dications.* I. Pisagatti, L. Barbera, G. Gattuso, V. Villari, N. Micali, E. Fazio, F. Neri, M. F. Parisi, A. Notti, *New J. Chem.*, **2019**, *43*, 7936–7940.

P26 *Self-sorting assembly of a calixarene/crown ether polypseudorotaxane gated by ion-pairing,* N. Manganaro, I. Pisagatti, A. Notti, M. F. Parisi, G. Gattuso, *New J. Chem.*, **2019** *43*, 7628–7635.