

Curriculum Vitae

Valeria Amendola

Associate Professor

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PERSONAL INFORMATION

Born in Milano on the 11th February 1974

Nationality: Italian

Known languages: Italian (native); English and French (spoken and written)

EDUCATION

- November 1997 – November 2000: Ph.D. in Chemical Sciences, Department of Inorganic Chemistry, University of Pavia, Italy. Title of the thesis: “Transition metal ions in supramolecular chemistry” (tutor: Prof. L. Fabbrizzi). During her PhD period, VA also obtained the post-lauream diploma with the Scuola Avanzata di Formazione Integrata of the Istituto Universitario di Studi Superiori (IUSS) in Pavia.
- October 1992 – July 1997: Degree in Chemistry (110/110 cum laude)

ACADEMIC QUALIFICATIONS

- May 2015 – present: **Associate Professor** in Chemistry (research field: Supramolecular Chemistry)
- National habilitation for the position of Full Professor (sector 03/B1, MIUR: FONDAMENTI DELLE SCIENZE CHIMICHE E SISTEMI INORGANICI)

RESEARCH EXPERIENCES

- May 2013: visiting scientist at the Department of Chemistry, University of Zurich (laboratory of Prof. Roger Alberto). The results of the study on a potential fluorescent chemosensor for ⁹⁹Tc are published in *Chem. Sci.* 2014, 5, 1820-1826
- May 2012: visiting scientist at the Department of Chemistry, University of Zurich (laboratory of Prof. Roger Alberto). The results of the study on a molecular cage for the ⁹⁹TcO₄⁻ anion are documented by the publication: *Angew. Chem. Int. Ed.* 2012, 51, 9772–9776

- August 2010: visiting scientist at the Department of Chemistry, TUM Munich (laboratory of Prof. Franz-P. Schmidtchen). The results of the thermodynamic studies by isothermal titration calorimetry have been published in *Chem. Eur. J.* 2011, 17(21), 5972-5981
- January 2005 – April 2015: **Researcher** in Chemistry at the Department of Chemistry, University of Pavia
- November 2000 – January 2005: post-doctoral researcher at the Department of Chemistry, University of Pavia

SCIENTIFIC RESPONSIBILITY in research projects

- July 2020 – June 2023 (3-years project) **Principal Investigator** (leader of the Capofila unit) of the project “Metal Organic frameworks and organic CAgEs for highly selective gas separation membranes and heavy metal capture devices”, MOCA, sponsored by the **Cariplo Foundation** (“Circular Economy” 2019, project N°2019-2090). The research project regarded the synthesis of new materials and mixed-matrix membranes for air and water decontamination; see <https://www.mocaproject.com/>, and involved research groups of the University of Calabria and CNR-ITM (Institute on Membrane Technology) as Partner units.
- 2018-2020 (3-years collaboration): **Scientific Responsible** of the Research unit in Pavia for the project “New Generation Separation Processes - PRONG” sponsored by the French Alternative Energies and Atomic Energy Commission (**CEA**). The collaboration with the nuclear site **CEA-Marcoule** regarded the synthesis of molecular systems (synthesized by our research unit) to improve the management of technetium in separation processes for nuclear fuel reprocessing.

Valeria Amendola was also involved in the following projects as a **member of the research unit** in Pavia:

- PRIN 2011 "Integrated supramolecular technologies for chemical information processing: advanced molecular devices and materials (infoChem)", sponsor by the Italian Ministry of Education, University and Research (MIUR);
- CARIPLO 2009 "CO₂ photoconversion on nanoparticles" sponsored by the Cariplo foundation;
- PRIN 2008 "Sistemi supramolecolari per la costruzione di nanomacchine, elaborazione di segnali, sensing e catalisi", MIUR;
- PRIN 2006 "Sistemi supramolecolari per la costruzione di macchine molecolari, conversione dell'energia, sensing e catalisi", MIUR;
- fifth framework programme of the European Union, Contract N°: HPRN-CT-2000-00029 Research Training Network Molecular Level Devices and Machines MLDM (2000-2004);
- PRIN 2001 "Supramolecular devices", MIUR
- COFIN 1999 "Supramolecular devices", MIUR; research activity on
- Contract CHRX-CT94-0492 Research Network on Transition Metals in Supramolecular Catalysis (1994-1998)

CONFERENCES

Valeria Amendola was **member of the Organizing Committee** of the following International Conferences: 2nd International Symposium on Macrocyclic and Supramolecular Chemistry - ISMSC

2007 (Salice Terme, 24-28 giugno 2007); International Symposium on Metal Complexes – ISMEC 2014 (Pavia, 8-12 giugno 2014).

Valeria Amendola organized the one-day “MOCA meeting” on the 8th June 2023 at the Almo Collegio Borromeo in Pavia. The meeting was organized as dissemination activity within the MOCA project sponsored by the Cariplo Foundation.

She has recently been **invited** to hold

- the opening plenary lecture at the EVENT IUPAC 2019 - Empowering Women in Chemistry: A Global Networking Event” (Rende, CS, Italy, 12th February 2019)
- a keynote communication at the 1st WISC in Cagliari on Organic Cages in Sensing and Separation Processes (6th-8th September 2021)
- an oral communication at the MSMLG2022 in Dublin (12th-15th July 2022); title: “Recent application of Organic Cages in Sensing and Separation Processes”
- a seminar on “Organic Cages in Sensing and Separation Processes” at the University of Padova (15th June 2022)

HABILITATION

Valeria Amendola obtained twice the national habilitation for the position of Full Professor in Chemistry, years 2013 and 2018 (sector 03/B1, MIUR: FONDAMENTI DELLE SCIENZE CHIMICHE E SISTEMI INORGANICI)

TEACHING and TUTORING

Over ten years’ experience (since 2010) as **Supervisor of PhD projects** in Chemical Sciences. she has tutored the activity of five PhD students (Riccardo Mobili, XXXV cycle; Sonia La Cognata, XXXIII cycle; Ana Miljkovic, XXX cycle; Carlo Ciarrocchi, XXVIII cycle; Greta Bergamaschi, XXVI cycle) at Department of Chemistry of the University of Pavia.

Over fifteen years’ experience as **Professor** of Chemistry, Stoichiometry and Laboratory for the first-year students of the degrees in Biology and Chemistry at the University of Pavia. Over five years’ experience as Professor of Inorganic Chemistry and Supramolecular Chemistry for the master’s students.

In detail:

- 1) 2005/06 - 2008/09: “Chimica Generale e Inorganica” (7 CFU) and “Chimica Agraria” (2CFU) for the Faculty of Science
- 2) 2009/10- present: “Stechiometria e Laboratorio di Chimica” (12 CFU), degree in Chemistry;
- 3) 2014/15 -present: “Chimica Inorganica III” (3 CFU) and “Chimica Supramolecolare” master degree degree in Chemistry.

PUBLICATIONS and EDITOR ACTIVITY

The research activity has produced **97 publications** and obtained more than **5700 total citations, h-index: 37** (Scopus, May. 2024).

Since 2017 she is member of the Editorial Board of two international scientific peer-reviewed journals: “Frontiers in Chemistry” and “Molecules” (MDPI). The list of publications is attached.

RESEARCH INTERESTS and COLLABORATIONS (2018-present)

Head of the SupraLab (Supramolecular Laboratory) at the University of Pavia

[SupraLab@UniPV – Supramolecular Chemistry at work \(wordpress.com\)](http://SupraLab@UniPV – Supramolecular Chemistry at work (wordpress.com))

- Synthesis of receptors for molecular recognition in aqueous matrices and for liquid-liquid separation processes. Valeria Amendola carried out intense work on the design of purely organic receptors for both recognition and separation of target anions. Her research approach was mainly focused on the development of receptors containing (i) hydrogen-bond donors e.g. N-H fragments (from ureas, thioureas, amides, protonated amine groups), and (ii) polarised C-H fragments (from imidazolium and alkyl-pyridinium). Thermodynamic studies (performed by e.g. NMR, UV-vis, circular dichroism and fluorimetry techniques) on urea, thiourea and squaramide based derivatives provided full interpretation of the nature of the host-guest interaction. The conjugation of fluorescent and chiral groups to donor units in the receptors also led to novel chemosensors for anionic pollutants. By merging H-bonding and electrostatic interactions in organic cages, the selective binding and sensing of $^{99}\text{TcO}_4^-$ was successfully achieved in strongly competing media. This issue was object of the recent collaboration with the **CEA-Marcoule** (Bagnols-sur-Céze, France), for the development of new methods for nuclear fuel reprocessing. Recent publications: Dalton Transactions, 2020, 49(5), 1446–1455; Dalton Transactions, 2021, 50(5), 1620–1630.
- Metal complexes as molecular receptors, chemosensors and extractants. Polycyclic ligands can be made large enough to incorporate two metal centres, e.g. a pair of Cu(II) ions. It may happen that between the two metals there is room enough to accommodate a chosen analyte. In this case, the dinuclear complex can behave as a receptor, whose selectivity can be tuned by varying the structural features of the ligand. A special case refers to bistren cages and their corresponding dicopper(II) complexes, which can incorporate polyatomic anions of varying shape and size. Metal complexes were applied in the sensing of target guests in water and in the development of portable devices for the determination of biomarkers in urine (New J. Chem. 2018, 42, 15460-15465). These studies also showed that the proper functionalization of the receptor framework can lead to new molecular systems that can be applied in the solid-liquid or liquid-liquid extraction of the target species from contaminated solutions. This issue was object of a recent collaboration with the **Mayo Clinic** in Rochester, U.S.A (ACS Omega 2020, 5, 26573) and the **Universitat Politècnica de Valencia**, Spain (Chemistry - A European Journal 2021, 27(4), 1306–1310).
- Beside their application as selective host in solution, organic cages can be applied in the solid state (crystalline or amorphous) as materials for gas capture and separation. Within the context of the MOCA project (sponsored by the Fondazione Cariplo, Bando Economia Circolare 2019 ,grant 2019-2090, kick-off on the 1st July 2020, the unit led by Valeria Amendola is directly involved in the development of organic cages as new molecular materials to be applied for the capture of pollutants i) see Chem. Commun., 2022, 58, 3897; <https://doi.org/10.1039/D2CC00612J> and as fillers of mixed-matrix membranes (in collaboration with **CNR-ITM**, Cosenza) for ii) the capture/separation of carbon dioxide from gaseous streams, iii) the upgrading of methane from biogas and natural gas. Recent publications: Molecules, 2021, 26(18), 5557; Chemistry - A European Journal, 2022, <https://doi.org/10.1002/chem.202201631>.

Publications

97. Mobili, R., Preda, G., Dondi, D., ...Pasini, D., Amendola, V.
Triptycene-based diiron(ii) mesocates: spin-crossover in solution
(2024) *Chemical Communications*, 60, pp. 5522 - 5525
96. Preda, G., Mobili, R., Ravelli, D., Amendola, V., Pasini, D.
Homoconjugation and Tautomeric Isomerism in Triptycene-Fused Pyridylbenzimidazoles
(2024) *Journal of Organic Chemistry*, 89(8), pp. 5690–5698
95. La Cognata, S., Amendola, V.
Recent applications of organic cages in sensing and separation processes in solution
(2023) *Chemical Communications*, 59(92), pp. 13668–13678
94. Mobili, R., La Cognata, S., Monteleone, M., Longo, M., Fuoco, A., Serapian, S.A., Vigani, B., Milanese, C., Armentano, D., Jansen, J.C., Amendola, V.
Gas Permeation through Mechanically Resistant Self-Standing Membranes of a Neat Amorphous Organic Cage
(2023) *Chemistry - A European Journal*, 29 (56), art. no. e202301437
DOI: 10.1002/chem.202301437
93. La Cognata, S., Armentano, D., Marchesi, N., Grisoli, P., Pascale, A., Kieffer, M., Taglietti, A., Davis, A.P., Amendola, V.
A Benzimidazolium-Based Organic Cage with Antimicrobial Activity
(2022) *Chemistry (Switzerland)*, 4 (3), pp. 855-864.
DOI: 10.3390/chemistry4030061
92. Gazzola, V., Grisoli, P., Amendola, V., Dacarro, G., Mangano, C., Pallavicini, P., Poggi, A., Rossi, S., Vigani, B., Taglietti, A.
A Supramolecular Approach to Antimicrobial Surfaces
(2022) *Molecules*, 27 (17), art. no. 5731, .
DOI: 10.3390/molecules27175731
91. La Cognata, S., Mobili, R., Milanese, C., Boiocchi, M., Gaboardi, M., Armentano, D., Jansen, J.C., Monteleone, M., Antonangelo, A.R., Carta, M., Amendola, V.
CO₂ Separation by Imide/Imine Organic Cages
(2022) *Chemistry - A European Journal*, 28 (49), art. no. e202201631
DOI: 10.1002/chem.202201631
90. Miele, D., Sorrenti, M., Catenacci, L., Minzioni, P., Marrubini, G., Amendola, V., Maestri, M., Giunchedi, P., Bonferoni, M.C.
Association of Indocyanine Green with Chitosan Oleate Coated PLGA Nanoparticles for Photodynamic Therapy
(2022) *Pharmaceutics*, 14 (8), art. no. 1740, .
DOI: 10.3390/pharmaceutics14081740
89. Mobili, R., Preda, G., La Cognata, S., Toma, L., Pasini, D., Amendola, V.
Chiroptical sensing of perrhenate in aqueous media by a chiral organic cage
(2022) *Chemical Communications*, 58 (24), pp. 3897-3900.
DOI: 10.1039/d2cc00612j
88. Mobili, R., Amendola, V.
Photophysics of transition metal complexes (2019-2020)
(2022) *Photochemistry*, 49, pp. 147-176.

DOI: 10.1039/9781839165269-00147

87. Monteleone, M., Mobili, R., Milanese, C., Esposito, E., Fuoco, A., La Cognata, S., Amendola, V., Jansen, J.C.

Peek-wc-based mixed matrix membranes containing polyimine cages for gas separation
(2021) *Molecules*, 26 (18), art. no. 5557, .

DOI: 10.3390/molecules26185557

86. Thevenet, A., Miljkovic, A., La Cognata, S., Marie, C., Tamain, C., Boubals, N., Mangano, C., Amendola, V., Guilbaud, P.

Syntheses and evaluation of new hydrophilic azacryptands used as masking agents of technetium in solvent extraction processes

(2021) *Dalton Transactions*, 50 (5), pp. 1620-1630.

DOI: 10.1039/d0dt04210b

85. Domínguez, M., Blandez, J.F., Lozano-Torres, B., de la Torre, C., Licchelli, M., Mangano, C., Amendola, V., Sancenón, F., Martínez-Máñez, R.

A Nanoprobe Based on Gated Mesoporous Silica Nanoparticles for The Selective and Sensitive Detection of Benzene Metabolite t,t-Muconic Acid in Urine

(2021) *Chemistry - A European Journal*, 27 (4), pp. 1306-1310.

DOI: 10.1002/chem.202004272

84. La Cognata, S., Mobili, R., Merlo, F., Speltini, A., Boiocchi, M., Recca, T., Maher, L.J., Amendola, V.

Sensing and liquid-liquid extraction of dicarboxylates using dicopper cryptates

(2020) *ACS Omega*, 5 (41), pp. 26573-26582.

DOI: 10.1021/acsomega.0c03337

83. La Cognata, S., Miljkovic, A., Mobili, R., Bergamaschi, G., Amendola, V.

Organic Cages as Building Blocks for Mechanically Interlocked Molecules: Towards Molecular Machines

(2020) *ChemPlusChem*, 85 (6), pp. 1145-1155.

DOI: 10.1002/cplu.202000274

82. Miljkovic, A., La Cognata, S., Bergamaschi, G., Freccero, M., Poggi, A., Amendola, V.

Towards building blocks for supramolecular architectures based on azacryptates

(2020) *Molecules*, 25 (7), art. no. 1733, .

DOI: 10.3390/molecules25071733

81. Thevenet, A., Marie, C., Tamain, C., Amendola, V., Miljkovic, A., Guillaumont, D., Boubals, N., Guilbaud, P.

Perrhenate and pertechnetate complexation by an azacryptand in nitric acid medium

(2020) *Dalton Transactions*, 49 (5), pp. 1446-1455.

DOI: 10.1039/c9dt04314d

80. Amendola, V.

Photophysics of transition metal complexes (2017-2018)

(2020) *Photochemistry*, 47, pp. 217-240.

DOI: 10.1039/9781788016520-00217

79. Aletti, A.B., Miljkovic, A., Toma, L., Bruno, R., Armentano, D., Gunnlaugsson, T., Bergamaschi, G., Amendola, V.

Halide-Controlled Extending-Shrinking Motion of a Covalent Cage

(2019) *Journal of Organic Chemistry*, 84 (7), pp. 4221-4228.

DOI: 10.1021/acs.joc.9b00219

78. Nadai, M., Doria, F., Scalabrin, M., Pirota, V., Grande, V., Bergamaschi, G., Amendola, V., Winnerdy, F.R., Phan, A.T., Richter, S.N., Freccero, M.
A Catalytic and Selective Scissoring Molecular Tool for Quadruplex Nucleic Acids
(2018) *Journal of the American Chemical Society*, 140 (44), pp. 14528-14532.
DOI: 10.1021/jacs.8b05337
77. Amendola, V., Bergamaschi, G., Miljkovic, A.
Azacryptands as molecular cages for anions and metal ions
(2018) *Supramolecular Chemistry*, 30 (4), pp. 236-242.
DOI: 10.1080/10610278.2017.1339885
76. Amendola, V., Miljkovic, A., Legnani, L., Toma, L., Dondi, D., Lazzaroni, S.
Self-Assembly of Pseudorotaxane Structures from a Dicopper(II) Molecular Cage and Dicarboxylate Axles
(2018) *Inorganic Chemistry*, 57 (7), pp. 3540-3547.
DOI: 10.1021/acs.inorgchem.7b02534
75. Amendola, V., Boiocchi, M., Fabbrizzi, L., La Cognata, S., Legnani, L., Lo Presti, E., Mangano, C., Miljkovic, A.
Anion-induced isomerization of fluorescent semi(thio)carbazones
(2018) *Organic Chemistry Frontiers*, 5 (3), pp. 391-397.
DOI: 10.1039/c7qo00805h
74. Amendola, V.
Photophysics of transition metal complexes
(2018) *Photochemistry*, 45, pp. 133-161.
DOI: 10.1039/9781788010696-00133
73. Amendola, V., Bergamaschi, G.
Photochemical and photocatalytic properties of transition metal compounds
(2018) *Photochemistry*, 45, pp. 101-132.
DOI: 10.1039/9781788010696-00101
72. Merli, D., La Cognata, S., Balduzzi, F., Miljkovic, A., Toma, L., Amendola, V.
A smart supramolecular device for the detection of t,t-muconic acid in urine
(2018) *New Journal of Chemistry*, 42 (18), pp. 15460-15465.
DOI: 10.1039/c8nj02156b
71. Amendola, V., Bergamaschi, G., Guglielmo, L., Izzo, L., Mangano, C., Mella, M., Milanese, C., Miljkovic, A.
Dicopper(II) Mozobil™: a dinuclear receptor for the pyrophosphate anion in aqueous solution
(2017) *Supramolecular Chemistry*, 29 (11), pp. 834-845.
DOI: 10.1080/10610278.2017.1373194
70. Amendola, V., Bergamaschi, G., Dacarro, G., Denat, F., Boschetti, F., Nikolantonaki, M., Gougeon, R., D'Alessio, G., Viaux, A.-S., Bertheau, L., Guyot, S., Sok, N., Pallavicini, P.
An Off-On-Off Fluorescent Sensor for pH Windows Based on the 13aneN4-Zn²⁺ System
(2016) *European Journal of Inorganic Chemistry*, 2016 (32), pp. 5106-5113.
DOI: 10.1002/ejic.201600749
69. Amendola, V., Bergamaschi, G., Boiocchi, M., Legnani, L., Presti, E.L., Miljkovic, A., Monzani, E., Pancotti, F.
Chloride-binding in organic-water mixtures: The powerful synergy of C-H donor groups within a bowl-shaped cavity

(2016) *Chemical Communications*, 52 (72), pp. 10910-10913.
DOI: 10.1039/c6cc04978h

68. Amendola, V., Bergamaschi, G., Boiocchi, M., Fusco, N., La Rocca, M.V., Linati, L., Lo Presti, E., Mella, M., Metrangolo, P., Miljkovic, A.
Novel hydrogen- and halogen-bonding anion receptors based on 3-iodopyridinium units
(2016) *RSC Advances*, 6 (72), pp. 67540-67549.
DOI: 10.1039/c6ra14703h

67. Pallavicini, P., Amendola, V., Bergamaschi, G., Cabrini, E., Dacarro, G., Rossi, N., Taglietti, A.
A bistren cryptand with a remote thioether function: Cu(II) complexation in solution and on the surface of gold nanostars
(2016) *New Journal of Chemistry*, 40 (7), pp. 5722-5730.
DOI: 10.1039/c5nj03175c

66. Amendola, V., Bergamaschi, G., Fabbrizzi, L., Licchelli, M., Mangano, C.
The interaction of Mozobil™ with carboxylates
(2016) *Organic and Biomolecular Chemistry*, 14 (3), pp. 905-912.
DOI: 10.1039/c5ob01704a

65. Amendola, V., Bergamaschi, G., Licchelli, M.
Photochemical and photocatalytic properties of transition metal compounds
(2016) *Photochemistry*, 43, pp. 103-147.
DOI: 10.1039/9781782622772-00103

64. Alibrandi, G., Amendola, V., Bergamaschi, G., Fabbrizzi, L., Licchelli, M.
Bistren cryptands and cryptates: Versatile receptors for anion inclusion and recognition in water
(2015) *Organic and Biomolecular Chemistry*, 13 (12), pp. 3510-3524.
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63. Doria, F., Amendola, V., Grande, V., Bergamaschi, G., Freccero, M.
Naphthalene diimides as selective naked-eye chemosensor for copper(II) in aqueous solution
(2015) *Sensors and Actuators, B: Chemical*, 212, pp. 137-144.
DOI: 10.1016/j.snb.2015.01.113

62. Amendola, V., Boiocchi, M., Fabbrizzi, L., Fusco, N., Valeri, E.
The disproportionation of [Ni(tacn)]²⁺ in Ni²⁺ and [Ni(tacn)₂]²⁺ crystallographically demonstrated (tacn=1,4,7-triazacyclononane)
(2014) *Chemistry - A European Journal*, 20 (38), pp. 11994-11998.
DOI: 10.1002/chem.201403969

61. Bergamaschi, G., Boiocchi, M., Perrone, M.L., Poggi, A., Viviani, I., Amendola, V.
Mixing the spacers in azacryptands: Effects on halide recognition
(2014) *Dalton Transactions*, 43 (29), pp. 11352-11360.
DOI: 10.1039/c4dt00886c

60. Amendola, V., Bergamaschi, G., Boiocchi, M., Alberto, R., Braband, H.
Fluorescent sensing of ⁹⁹Tc pertechnetate in water
(2014) *Chemical Science*, 5 (5), pp. 1820-1826.
DOI: 10.1039/c3sc53504e

59. Alberti, G., Amendola, V., Bergamaschi, G., Colleoni, R., Milanese, C., Biesuz, R.
Supramolecular receptors in solid phase: Developing sensors for anionic radionuclides
(2013) *Dalton Transactions*, 42 (17), pp. 6227-6234.

DOI: 10.1039/c2dt32211k

58. Amendola, V., Bergamaschi, G., Boiocchi, M., Fabbrizzi, L., Mosca, L.
The interaction of fluoride with fluorogenic ureas: An ON 1-OFF-ON2 response
(2013) *Journal of the American Chemical Society*, 135 (16), pp. 6345-6355.
DOI: 10.1021/ja4019786

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An automatic molecular dispenser of chloride
(2013) *Chemistry - A European Journal*, 19 (11), pp. 3729-3734.
DOI: 10.1002/chem.201203933

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(2012) *Angewandte Chemie - International Edition*, 51 (39), pp. 9772-9776.
DOI: 10.1002/anie.201205313

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Cavity effect on perrhenate recognition by polyammonium cages
(2012) *European Journal of Inorganic Chemistry*, (21), pp. 3410-3417.
DOI: 10.1002/ejic.201200334

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Beyond the synthesis of novel solid phases: Review on modelling of sorption phenomena
(2012) *Coordination Chemistry Reviews*, 256 (1-2), pp. 28-45.
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53. Bergamaschi, G., Boiocchi, M., Monzani, E., Amendola, V.
Pyridinium/urea-based anion receptor: Methine formation in the presence of basic anions
(2011) *Organic and Biomolecular Chemistry*, 9 (24), pp. 8276-8283.
DOI: 10.1039/c1ob06193c

52. Amendola, V., Fabbrizzi, L., Licchelli, M., Taglietti, A.
Anion Sensing by Fluorescence Quenching or Revival
(2011) *Anion Coordination Chemistry*, pp. 521-552.
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Putting the anion into the cage-fluoride inclusion in the smallest trisimidazolium macrotricyclic
(2011) *European Journal of Organic Chemistry*, (32), pp. 6434-6444.
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The solution stability of copper(i) and silver(i) complexes with N-heterocyclic carbenes
(2011) *Dalton Transactions*, 40 (33), pp. 8367-8376.
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Ion Translocation within Multisite Receptors
(2011) *Molecular Switches*, Second Edition, 1, pp. 361-398.
DOI: 10.1002/9783527634408.ch11

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Urea-, squaramide-, and sulfonamide-based anion receptors: A thermodynamic study

- (2011) *Chemistry - A European Journal*, 17 (21), pp. 5972-5981.
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Anion recognition by hydrogen bonding: Urea-based receptors
(2010) *Chemical Society Reviews*, 39 (10), pp. 3889-3915.
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The squaramide versus urea contest for anion recognition
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45. Amendola, V., Boiocchi, M., Brega, V., Fabbrizzi, L., Mosca, L.
Octahedral copper(II) and tetrahedral copper(I) double-strand helicates: Chiral self-recognition and redox behavior
(2010) *Inorganic Chemistry*, 49 (3), pp. 997-1007.
DOI: 10.1021/ic9019684
44. Amendola, V., Fabbrizzi, L.
Molecular Motions Driven by Transition Metal Redox Couples: Ion Translocation and Assembling-Disassembling of Dinuclear Double-Strand Helicates
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