

## Florina DUMITRU Associate Professor

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Faculty of Applied Chemistry and Materials Science  
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### Contact information

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### Education and training

Dates	I. may 2010 onwards , II. 2008, III. 1990-1995, IV. 1985-1989
Title of qualification awarded	I. Postdoctoral researcher, II. PhD in chemistry, III. Chemical engineer, IV. High school diploma
Principal subjects/occupational skills covered	I.&II. Supramolecular Chemistry/Coordinative chemistry/Combinatorial chemistry, III. Organic Chemistry, IV. Mathematics-Physics
Name and type of organisation providing education and training	I. POLITEHNICA University of Bucharest, Faculty of Applied Chemistry and Materials Science, II. POLITEHNICA University of Bucharest and Université de MONTPELLIER II Sciences et Techniques du Languedoc (Montpellier, France), III. POLITEHNICA University of Bucharest, IV. Mathematics-Physics High School no 3

### Professional experience

Dates	I. 2011-2000, II. 2000-1997 III. 1997-1995
Occupation or position held	I. Associate Professor, Lecturer, Teaching Assistant, II. Chemical Engineer/Researcher, III. Chemical Engineer/Researcher
Main activities and responsibilities	I. Research / Teaching activity, II. Research, III. Research and physico-chemical characterization of samples
Name and address of employer	I. Electrochemistry, Physical and Inorganic Department, Faculty of Applied Chemistry and Materials Science, POLITEHNICA University of Bucharest, II. Supramolecular Chemistry Laboratory, Research Center for Macromolecular Materials and Membranes, Bucharest, Romania III. Chemical engineer - Food Flavors Plant - <b>TEC</b> (The European Connection), Bucharest, Romania
Type of business or sector	Education/Research

### Academic and research interests

Coordinative chemistry

Supramolecular and combinatorial chemistry

Inorganic polymers and hybrid materials

## Teaching activity (2012-2013)

Studies	The name of Programme	Code	Course title	Activity type
Bachelor	FACMS/Chemical Engineering	UPB.11.F.03.O.008	Organometallic Compounds	course for 2 <sup>nd</sup> year students
	FACMS/Chemical Engineering	UPB.11.F.02.O.005	Transition Metals Chemistry	course for 1 <sup>st</sup> year students
Master	FACMS/Analytical Environmental Control and Remediation Techniques	MC2S1C6	Concepts and Strategies of Green Chemistry	
	FACMS/Life Sciences and Ecology	MC7S2C1	Supramolecular Chemistry	
	FACMS/Consumer Protection. Quality control of products	MC5S1C2	Composition-structure-properties relationship	

## Publications (selective list):

### Books

PhD thesis (co-directed): DYNAMIC SYSTEMS CONTAINING POLYDENTATE LIGANDS. CONSTITUTIONAL AMPLIFICATION IN A DYNAMIC COMBINATORIAL LIBRARY OF BIS(IMINO)PYRIDINES, 2003-2007

PhD advisors: Professor Cornelia GURAN, *Politehnica University of Bucharest, Faculty of Applied Chemistry and Materials Science* and Dr. Mihail-Dumitru BARBOIU, *Université de MONTPELLIER II Sciences et Techniques du Languedoc (Montpellier, France)*

### Articles

**F. Dumitru**, Y.-M. Legrand, M. Barboiu and A. van der Lee, Weak intermolecular hydrogen and halogen interactions in an isomorphous halogen series of pseudoterpyridine ZnII complexes, *Acta Cryst.* (2013). B69, 43-54. (FI=2.286)

**F. Dumitru**, Y.-M. Legrand, E. Petit, A. van der Lee and M. Barboiu, Self-sorting of metallosupramolecular DCLs via double-level exchange: amplification in solution and solid state modulation, *Dalton Trans.* (2012), 41, 11860-11865. (FI=3.838)

**F. Dumitru**, Y.-M. Legrand, A. van der Lee, M. Barboiu, Constitutional self-sorting of homochiral supramolecular helical single-crystals from achiral components, *Chem. Commun.* (2009) 19, 2667-2669. (FI=5.504)

**F. Dumitru**, Y.-M. Legrand, M. Barboiu, E. Petit, A. van der Lee, Metallosupramolecular architectures of pseudoterpyridine-type ligands and Zn<sup>II</sup> metal ions, *Crystal Growth & Design* (2009), 9(6), 2917-2921. (FI=4.162)

**F. Dumitru**, E. Petit, A. van der Lee, M. Barboiu, Homo- and heteroduplex complexes containing terpyridine-type ligands and Zn<sup>2+</sup>, *Eur. J. Inorg. Chem.* (Cover Picture) (2005) 21(9), 4255-4262. (FI=2.514)