

PERSONAL INFORMATION

Francesco Demartin

POSITION



Full professor of General and Inorganic Chemistry (SSD CHIM/03) - Università degli Studi di Milano

WORK EXPERIENCE

- From 2006 Full Professor of General and Inorganic Chemistry, Università degli Studi di Milano
- 1987-2006 Associate Professor of General and Inorganic Chemistry, Università degli Studi di Milano
- 1981-1987 Permanent position (Researcher), Università degli Studi di Milano
- 1978-1981 Assistant at the Chair of General and Inorganic Chemistry, Università degli Studi di Milano

EDUCATION AND TRAINING

- 1978 Laurea in Chemistry *cum laude*, Università degli Studi di Milano

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C1

Organisational / managerial skills 2009-2012 Director of Dipartimento di Chimica Strutturale e Stereochimica Inorganica, Università degli Studi di Milano
2014-2017 Director of Dipartimento di Chimica, Università degli Studi di Milano

Job-related skills **Teaching:**
General and Inorganic Chemistry, Faculty of Pharmacy, Università degli Studi di Milano
Structural Chemistry, Faculty of Sciences, Università dell'Insubria (Como, Italy) and Università degli Studi di Milano
Analytical Chemistry, Faculty of Pharmacy, Università degli Studi di Milano
General and Inorganic Chemistry, Faculty of Sciences and Technology, Università degli Studi di Milano

Scientific interests:

- Single Crystal and Powder Diffraction
- Metal clusters chemistry
- Organometallic Compounds
- Crystal-chemistry of inorganic compounds and minerals

ADDITIONAL INFORMATION

Prof. Demartin is author or co-author of more than 330 scientific papers concerning the crystal chemistry of organometallic compounds and minerals. His mineralogical studies concern investigations on alpine and fumarolic minerals. He also discovered more than 40 new mineral species. The mineral *demartinite* was dedicated to him in recognition of his research in this field.

Publications

<http://orcid.org/0000-0003-2942-3990>

Some significant published papers

A. Ceriotti, F. Demartin, G. Longoni, M. Manassero, M. Marchionna, G. Piva, M. Sansoni.
Synthesis and structure of the $[\text{Ni}_{38}\text{Pt}_6(\text{CO})_{48}\text{H}_{6-n}]^{n-}$ ($n=5,4$) ions Ni-Pt clusters as models for "Cherry" crystallites.
Angew. Chemie, 24 (1985) 697

A. Ceriotti, R. Della Pergola, F. Demartin, L. Garlaschelli, M. Manassero, N. Masciocchi.
Alkyne-substituted carbonyl clusters of iridium: synthesis, characterization, and solid state structures of $\text{Ir}_6(\text{CO})_{13}(\mu-\text{CO})(\mu^3-\eta^2\text{-PhCCPh})$ and $\text{Ir}_6(\text{CO})_{12}(\mu^3-\eta^2\text{-PhCCPh})_2\text{CH}_2\text{Cl}_2$.
Organometallics, 11 (1992) 756

F. Cristiani, F. Demartin, F.A. Devillanova, F. Isaia, V. Lippolis, G. Verani.
Charge-transfer complexes of N-methylthiazolidine-2(3H)-selone (1) and N-methylbenzothiazole-2-(3H)selone (2) with I_2 and I^+Br^- : crystal structures of $1 \cdot \text{I}_2$, $1 \cdot \text{I}_{1.25}\text{Br}_{0.75}$, $2 \cdot 2\text{I}_2$ and $2 \cdot 2\text{I}^+\text{Br}^-$.
Inorg. Chem., 33 (1994) 6315

F. Calderoni, F. Demartin, M.C. Iapalucci, G. Longoni.
Synthesis and crystal structure of $[\text{Ni}_{32}\text{C}_6(\text{CO})_{36}]^{6-}$ hexa-anion: an extended fragment of a M_{23}C_6 lattice stabilised by a shell of edge-bridging carbonyls.
Angew. Chemie, 35 (1996) 2225

F. Demartin, C. Femoni, M.C. Iapalucci, G. Longoni, P. Macchi.
New Ni-Pt carbonyl clusters with a tetrahedron of platinum atoms encapsulated in an uncomplete tetrahedron of nickel atoms: $[\text{Ni}_{36}\text{Pt}_4(\text{CO})_{45}]^{6-}$ and $[\text{Ni}_{37}\text{Pt}_4(\text{CO})_{46}]^{6-}$.
Angew. Chemie, 38 (1999) 531

M.C. Aragoni, M. Arca, F. Demartin, F.A. Devillanova, F. Isaia, A. Garau, V. Lippolis, F. Jalali, U. Papke, M. Shamsipur, L. Tei, A. Yari, G. Verani.
Fluorometric chemosensors. Interaction of toxic heavy metals ions Pb^{II} , Cd^{II} , and Hg^{II} with novel mixed-donor phenanthroline-containing macrocycles: spectrofluorimetric, conductometric and crystallographic studies.
Inorg. Chem. 41 (2002) 6623

M. C. Aragoni, M. Arca, A. Bencini, S. Biagini, A. J. Blake, C. Caltagirone, F. Demartin, G. De Filippo, F.A. Devillanova, A. Garau, K. Gloe, F. Isaia, V. Lippolis, B. Valtancoli, M. Wenzel.
Interaction of mixed-donor macrocycles containing the 1,10-phenanthroline with selected transition and post-transition metal ions: metal ion recognition in competitive liquid-liquid solvent extraction of Cu^{II} , Zn^{II} , Pb^{II} , Cd^{II} , Ag^I and Hg^{II} .
Inorg. Chem. 46 (2008) 8391

M. Mameli, M. C. Aragoni, M. Arca, C. Caltagirone, F. Demartin, G. Farruggia, G. De Filippo, F.A. Devillanova, A. Garau, F. Isaia, V. Lippolis, S. Murgia, L. Prodi, A. Pintus, N. Zaccheroni.
A selective, non toxic, OFF-ON fluorescent molecular sensor based on 8-hydroxyquinoline for probing Cd^{2+} in living cells.
Chemistry, A European Journal, 16 (2010) 919

A. Gulino, I. Fragalà, F. Lupo, G. Malandrino, A. Motta, A. Colombo, C. Dragonetti, S. Righetto, D. Robertò, R. Ugo, F. Demartin, I. Ledoux-Rak, A. Sing.
Fascinating Role of the Number of f Electrons in Dipolar and Octupolar Contributions to Quadratic Hyperpolarizability of Trinuclear Lanthanides-Biscopper Schiff Base Complexes.
Inorg. Chem., 52 (2013) 7550

A. Colombo, C. Dragonetti, M. Magni, D. Robertò, F. Demartin, S. Caramori, C.A. Bignozzi.

Efficient copper mediators based on bulky asymmetric phenanthrolines for DSSCs.
ACS Appl. Mater. Interfaces, 6 (2014) 13945

R. Montis, M. Arca, M. C. Aragoni, A. Bauzà, F. Demartin, A. Frontera, F. Isaia, V. Lippolis.

Hydrogen- and halogen-bond cooperativity in determining the crystal packing of dihalogen charge-transfer adducts: a study case from heterocyclic pentatomic chalcogenone donors.

Cryst Eng. Comm. 19 (2017) 4401

R. Montis, M. Arca, M. C. Aragoni, A. Blake, C. Castellano, F. Demartin, F. Isaia, V. Lippolis, A. Pintus, E.J. Lenardão, G. Perin, A.E. O'Connor, S. Thurow.

Structural diversity in the products formed by the reactions of 2-arylselanyl pyridine derivatives and dihalogens.

New J. Chem. 42 (2018) 10592

Personal information

I authorize the handling of personal information in this curriculum, according to D.Lgs n. 196/03 and following modifications and Regulations EU 679/2016 (General Regulations concerning Data Protection or GRDP) and art. 7 of University Regulations concerning protection of personal information.

I authorize, according to D.Lgs 14/03/2013 n. 33 concerning transparency, in case of conferment of the position and of the fellowship, the publication of this curriculum in the web site of Università degli Studi di Milano in the section "Amministrazione trasparente", "Consulenti e collaboratori".

Date, November 1st 2018

Signature

