**Curriculum Vitae (updated February 20, 2015)**

PIERANGELO METRANGOLO

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Date and Place of Birth: 16/04/1972, Copertino (Lecce), Italy

Nationality: Italian

***Professional Career***

***Present Positions***

2011 - *Full Professor of Fundamentals of Chemistry for Technologies*, Department of Chemistry, Materials, and Chemical Engineering “Giulio Natta”, Politecnico di Milano.

2011 - *Visiting Professor of Molecular Recognition* at the VTT - Technical Research Centre of Finland.

***Previous Positions***

2010 - 2010 *Research Professor of Molecular Recognition* at the VTT - Technical Research Centre of Finland.

2010 - 2005 *Associate Professor of Fundamentals of Chemistry for Electronics*, Department of Chemistry, Materials and Chemical Engineering “Giulio Natta”, Politecnico di Milano.

**2005 - 2002** *Assistant Professor of Fundamentals of Chemistry for Informatics*, Department of Chemistry, Materials and Chemical Engineering “Giulio Natta”, Politecnico di Milano.

**2002 - 2002** *Research Associate*, Department of Chemistry, Materials and Chemical Engineering “Giulio Natta”, Politecnico di Milano, under the research contract entitled “Anions-Driven Self-Assembly of Perfluorocarbons and Hydrocarbons”.

***Education***

**2003** *Specialization School in Synthetic Organic Chemistry (2 years)*, which P. Metrangolo obtained cum Laude from the Politecnico di Milano on May 30, discussing a thesis entitled “Halogen Bonding-Mediated Fluorinated Coating of Polymers”.

**2001** *Ph.D. in Industrial Chemistry (3 years)* from the University of Milan on December 18, discussing a thesis entitled “Halogen Bonding: A Paradigm in Supramolecular Chemistry”.

**1997** *Degree in Pharmaceutical Chemistry and Technology (Laurea, 5 years)* from the University of Milan on July 21, with the score of 110/110, discussing a thesis entitled “Photolysis Reactions of Triazolines: A New Synthesis to Phenantridines”.

***Publications and Conferences***

Author of **170** articles (Source: ISI WoS Core Collection 19-02-15) published in international peer-reviewed journals like *Science*, *Chem. Soc. Rev.*, *Nature Chem.*, *Nature Commun.*, *Angew. Chem. Int. Ed.*, *Adv. Mater.*, *Adv. Funct. Mater.*, *J. Am. Chem. Soc.*, *Chem. Eur. J.*, *Chem. Commun.*, *etc*. (Sum of the Times Cited: 7614 (6353 without self-citations), **H-index = 44).** Average citations per article: 45.32; Journal Covers: 14 (1 in *Angew. Chem. Int. Ed.*, 1 in *Adv. Funct. Mater.*, 3 in *ChemComm*, 1 in *J. Mater. Chem. C*, 3 in *CrystEngComm*, 2 in *Cryst. Growth Des.*, 1 in *Org. Biol. Chem.*, 1 in *New J. Chem.*, 1 in *J. Polym. Sci. A*); Chapters in international books: 10; International patent applications: 9; Invited oral presentations at meetings: 40 (5 plenary, 18 keynote, and 17 invited). Invited seminars at universities and research institutes: 23. According to the ISI Essential Science Indicators database Prof. Metrangolo is in the *Top 1%* *of the most cited scientists in Chemistry* (Prof. Metrangolo is ranked in position no. 1631 with 3402 citations in Chemistry, which corresponds to the top 0.2%; Source: ISI ESI 29-10-13).

***Prizes and Awards***

8) European Research Council (**ERC**) awardee, Starting Grant **2012** (Consolidator), project “*Folding with Halogen Bonding ([FoldHalo](http://www.foldhalo.eu/))*”; 7) *Best Oral Presentation Award* at the 4th "International Symposium on Fluorous Technologies (**ISoFT'11**), 30 November - 3 December **2011**, Hong Kong (HK); 6) *Young Chemist Award* at the 42nd IUPAC World Chemistry Congress, 2-7 August **2009**, Glasgow (UK); 5) *CrystEngComm* *Sponsored Lectureship* at the Symposium on Crystal Engineering of the 42nd IUPAC World Chemistry Congress, 3 August **2009**, Glasgow (UK); 4) *Fellow* of the Royal Society of Chemistry (FRSC), UK, **2007** (by invitation); 3) *Recipient* of the *“G. Ciamician” Medal* ***2005*** of the Italian Chemical Society, which seeks to honour the most meritorious contribution of a younger chemist, below 35 years of age, working in any area of Organic Chemistry (see *Angew. Chem.* *Int. Ed.* **2005**, *44*, 6614); 2) *Recipient* of the *Journals Grant Award for International Authors* ***2005*** of the Royal Society of Chemistry (RSC), UK; 1) *Best Poster Award* of the Institut de Science et d’Ingénierie Supramoléculaires and Université Louis Pasteur of Strasbourg (Director: Nobel Laureate Prof. J.-M. Lehn) at the ESF Research Conference on Supramolecular Chemistry, Strasbourg, France, **2005**.

***Invited Seminars in Academic and Research Institutions***

**23)** K. University of Leuven, (BE) (2015); **22)** ICIQ-Tarragona (ES) (2014); **21)** University of Trieste (IT) (2014); **20)** University of Geneve (CH) (2013); **19)** CiQUS, University of Santiago de Compostela (ES) (2013); **18)** University of Tokyo (JP) (2012); **17)** Tokyo Institute of Technology (JP) (2012); **16)** University of Gothenburg (SE) (2012); **15)** University of Geneve (CH) (2011); **14)** University of Namur (BE) (2011); **13)** UMK Center for New Materials, Aalto University, Helsinki (FI) (2010); **12)** University of Jyväskylä (FI) (2009); **11)** University of Cambridge (UK) (2009); **10**) National Institute of Advanced Industrial Science and Technology (AIST), Nagoya (JP) (2008); **9)** University of York (UK) (2007); **8)** Nanoscience Center, Jyväskylä (FI) (2006); **7)** University of Rome “La Sapienza” (IT) (2006); **6)** University of Durham (UK) (2005); **5)** University of Sheffield (UK) (2005); **4)** University of York (UK) (2005); **3)** University of Jyväskylä (FI) (2004); **2)** National Nanotechnology Laboratory (NNL), Lecce (IT) (2003); **1)** University of Paris-Sud XI (Chatenay-Malabry, FR).

***Invited Presentations at Meetings (5 plenary, 17 keynote, and 16 invited lectures)***

40) *The 17th Symposium on the Society of Iodine Science*, Chiba University, Chiba, Japan, 16 September, **2015** (keynote lecture); 39) *XXI International Conference on "Horizons in Hydrogen Bond Research"*, University of Wrocław, Poland, 13 - 18 September, **2015** (invited lecture); 38) *International Conference on Structural Chemistry of Molecules and Materials*, University of Calcutta, India, November 30 – December 2, **2014** (invited lecture); 37) *2nd Indian International Symposium on Fluorine Chemistry*, Hyderabad, India, November 3 – 7, **2014** (plenary lecture); 36) *XXV Congresso Nazionale della Società Chimica Italiana*, Arcavacata di Rende, Cosenza, Italy, September 7 – 12, **2014** (keynote lecture); 35) *7th Italian-Japanese Workshop on Liquid Crystals*, Ravenna, Italy, July 7 – 10, **2014** (invited lecture); 34) *1st International Symposium on Halogen Bonding*, Porto Cesareo, Lecce, Italy, June 18 – 22, **2014** (keynote lecture); 33) *9th International Symposium on Macrocyclic and Supramolecular Chemistry*, Shanghai, China, June 7 - 11, **2014** (invited lecture); 32) *International Conference on Fluorine Chemistry 2014*, Tokyo, Japan, May 28 - 30, **2014** (invited lecture); 31) *17th European Symposium on Fluorine Chemistry*, Paris, France, July 21-25, **2013** (keynote lecture); 30) *7th Workshop on Crystal Forms*, Bologna, Italy, June 9 – 11, **2013** (invited lecture); 29) *96th Canadian Chemistry Conference*, Quebec City, Canada, May 26 – 30, **2013** (invited lecture); 28) *International Symposium on Fluorous Technologies (ISoFT’13)*, Budapest, Hungary, June 2 – 5, **2013** (plenary lecture); 27) *Intermolecular Interactions in Crystals*, S. Margherita di Pula, Cagliari, Italy, April 28 – 30, **2013** (invited lecture); 26) *2013 Southeastern Regional Meeting of the American Chemical Society*, Atlanta, USA, November 12-16, **2013** (keynote lecture); 25) *Conference Chemistry: Synthesis, Structure and Dynamics*, December 12-14, **2012**, Bangalore, India (invited lecture); 24) *6th International Meeting on Halogen Chemistry*,December 8-11, **2012**, Bangalore, India (invited lecture); 23) *iCeMS-ERATO Symposium “New Dimensions of Functional Coordination Frameworks”*, July 26-27, **2012**, Kyoto, Japan (invited lecture); 22) *2012 Gordon Research Conference on Crystal Engineering*, June 10-15, **2012**, Waterville Valley Resort, NH, USA (invited lecture); 21) *XLI Congresso Associazione Italiana di Cristallografia*, Verona, Italy, September 11-14, **2012** (keynote lecture); 20) *2nd International Meeting on Organic Materials for a Better Future*, Carovigno, Brindisi, Italy, September 16-20, **2012** (invited lecture); 19) *XXII Congress of the International Union of Crystallography*, Madrid (ES), August 22-30, **2011** (invited lecture); 18) *X Congresso Nazionale di Chimica Supramolecolare*, Perugia (IT), September 25-28, **2011** (keynote lecture); 17) *SAYCS 2011*, Pesaro (IT), October 17-19, **2011** (plenary lecture); 16) *6th International Symposium on Macrocyclic and Supramolecular Chemistry (6-ISMSC)*, Brighton (UK), July 3 - 7, **2011** (keynote lecture); 15) *16th European Symposium on Fluorine Chemistry (16th ESFC)*, Ljubljana (SI), July 18-23, **2010** (keynote lecture); 14) *Joint 66th SWRM and 62nd SERMACS Meeting of the American Chemical Society*, New Orleans (LA USA), December 1 – 4, **2010** (keynote lecture); 13) *Discussion Meeting on Intermolecular Interactions*, Bangalore (IN), November 28 – December 1, **2010** (keynote lecture); 12) *Emerging Themes in Structural Chemistry*, Crystal Growth and Design India Summit, Bangalore India, December 2-3, **2010** (keynote lecture); 11) *9° Congresso Nazionale Società Italiana Cristalli Liquidi (SICL'10)*, Cetraro (CZ, IT), July 5 – 6, **2010** (plenary lecture); 10) *American Crystallographic Association Meeting*, Toronto (CAN), July 25-30, **2009** (keynote lecture); 9) *19th International Symposium on Fluorine Chemistry*, Jackson Hole (WYO USA), August 23-28, **2009** (invited lecture); 8) *42nd IUPAC World Chemistry Congress*, August 3, 2009, Glasgow (UK) (keynote lecture); 7) *10th European Conference on Liquid Crystals*, Colmar (FR), April 19-24, **2009** (keynote lecture); 6) *XXXVIII Italian Crystallographic Association Congress*, Salerno (IT), September 20-23, **2009** (keynote lecture); 5) *XXI Congress of the International Union of Crystallography*, Osaka (JP) **2008** (invited lecture); 4) *Symposium on Halogen Bonding*, York (UK), March 18, **2009** (keynote lecture); 3) *2nd International Symposium on Fluorous Technologies*, Yokohama (JP) **2007** (invited lecture); 2) *XXX Convegno Nazionale della Divisione di Chimica Organica della Società Chimica Italiana*, Siena (IT) **2005** (plenary lecture); 1) *14th European Symposium on Fluorine Chemistry*, Poznan (PL) **2004** (keynote lecture).

***Organized International Meetings***

**8)** *Chairman* of the *2nd* *IUPAC/ICSU Workshop on Crystal Engineering*, Como, Italy, August 31-September 1, **2015**; **7)** *Chairman* of the *21st* *International Symposium on Fluorine Chemistry*, Como, Italy, August 23-28, **2015**; **6)** *Chairman* of the *1st* *IUPAC/ICSU Workshop on Crystal Engineering*, Porto Cesareo, Lecce, Italy, June 18, **2014**; **5)** *Chairman* of the *1st* *International Symposium on Halogen Bonding*, Porto Cesareo, Lecce, Italy, June 18-22, **2014**; **4)** *Chairman* of the IUCr 2011 Satellite Workshop “*Categorizing Halogen Bonding and Other Noncovalent Interactions Involving Halogen Atoms*” August 20-21, **2011**, Sigüenza, Guadalajara (ES); **3)** *Organizer* of the Symposium “*Halogen Bonding: A World Parallel to Hydrogen Bonding*” at the 238th American Chemical Society National Meeting, Washington D.C., August 16-20, 2009; **2)** *Co-chair* of the Symposium “*Self-organization and self-assembly: From nucleation to crystal growth, from eutectics to photonic and liquid crystals, and from theory to application*” at the **XXI Congress** and General Assembly of the International Union of Crystallography, **Osaka (JP) (August 23-31, 2008); 1)** *Organizer* of the Symposium “*Nanostructured Fluorocarbons: Smart Modules for Self-Assembly*” **at the 234th American Chemical Society National Meeting, Boston MA, August 17-23, 2007.**

***Other Professional Activities***

* *Visiting Professor:* **4)** University of York (RS fellow), UK (2007); **3)** Nanoscience Center (Center fellow), Jyväskylä (FI) (2006); **2)** University of York (RSC fellow), UK (2005); **1)** Universitè Paul Sabatier (EU fellow), Toulouse (FR) (2001).
* *Topic Editor of:* The American Chemical Society journal, *Crystal Growth and Design* (2013-2012).
* *Member of the Editorial Advisory Board of:* The American Chemical Society journal, *Crystal Growth and Design* (since 2014).
* *Member of the Editorial Board of:* The Royal Society of Chemistry journal, *CrystEngComm* (since 2013).
* *Co-editor of:* The International Union of Crystallography journal,  *Acta Crystallographica Section B*.
* *Guest Editor of:* **4)** The book “Halogen Bonding : Impact on Materials Chemistry and Life Sciences” of the series *Topics in Current Chemistry*, Springer, **2015**; **3)** The virtual issue of *Crystal Growth and Design* devoted to Halogen Bonding (Vol. VI(8), 18 December **2012**); **2)** The book “*Halogen Bonding: Fundamentals and Applications*” of the series *Structure and Bonding*, Springer, **2008**, Vol. *126*; **1)** The special issue of the *Journal of Fluorine Chemistry* devoted to Fluorine Chemistry in Italy (**2004**, *125*).
* *Chairman of:* **3)** The ICSU project “CONcepts and termINology in Crystal Engineering ([CONvINCE](http://www.icsu.org/what-we-do/projects-activities/icsu-grants-programme/?icsudocid=copy2_of_grants-2012))”, 2014-2015; **2)** The IUPAC project no. 2012-044-1-100 “[Basic Terminology of Crystal Engineering](http://www.iupac.org/nc/home/projects/project-db/project-details.html?tx_wfqbe_pi1%5Bproject_nr%5D=2012-044-1-100)”, 2013-2014; **1)** The IUPAC project no. 2009-032-1-100 “[Categorizing Halogen Bonding and Other Noncovalent Interactions Involving Halogen Atoms](http://www.iupac.org/web/ins/2009-032-1-100)”, 2010-2011.
* *Coordinator of:* the COST European project no. D29/0011-03 “New Fluorous Media and Processes for Cleaner and Safer Chemistry” (14 research groups, 7 European countries);
* *Member of:* **4)** The International Advisory Board of *The International Symposium on Fluorous Technology (ISoFT)*; **3)** The Steering Committee of *The International Symposium on Fluorine Chemistry*; **2)** The Advisory Committee of *The 3rd Collaborative Conference on Crystal Growth*;**1)** The International Advisory Board of the *International Meeting on Halogen Chemistry (Halchem)*.
* *Reviewer for National and International Funding Agencies:* - The European Research Council (**ERC**); - Petroleum Research Fund of the American Chemical Society (**PRF**); - Agence Nationale de la Recherche (**ANR**); - Croatian Science Foundation (**CSF**); - National Research Foundation of South Africa (**NRF**); - American National Science Foundation (**NSF**); - Ministero dell’Università e della Ricerca (**MIUR**), Firb, Prin, VQR; - University of Padua, - University of Trieste.
* *External PhD evaluator for:* The University of Gothenburg (SE), the Indian Institute of Science (IN), the University of Barcelona (ES), the University of Jyväskylä (FI), the University of Milan (IT).
* *Referee for international ISI journals:* around **30** papers per year; *Science, Nature Chem., Nature Nanotech., Angew. Chem. Int. Ed., Chem. Rev., Chem. Soc. Rev., J. Am. Chem. Soc., Chem. Eur. J., Chem. Commun., J. Mater. Chem., J. Org. Chem., Org. Lett., J. Mol. Biol., Cryst. Growth Des., CrystEngComm, Tetrahedron Lett., Tetrahedron, Dalton Trans., Phys. Chem. Chem. Phys., ChemPhysChem, New J. Chem., Supramol. Chem., J. Fluorine Chem., Int. J. Chem. Kinetics, J. Chem. Crystallogr., Chem. Papers, J. Environ. Chem. Ecotox., J. Incl. Phenom. Macrocycl. Chem., Inorg. Chem., Curr. Opin. Solid State Mater. Sci., Expert Opin. Biol. Ther., Int. J. Quantum Chem., Beilstein J. Org. Chem.*.
* *Roles in International Chemistry Associations:* *Young Observer Program* *Delegate* for Italy at the 45th IUPAC General Assembly, 31 July - 6 August **2009**, Glasgow (UK).
* *Scientific Advisor:* of the Italian Embassy in Helsinki.
* *Member of:* - The American Chemical Society (Division of Organic and Fluorine Chemistry); - The Royal Society of Chemistry; - The European Crystallographic Association; - The Italian Chemical Society (Division of Organic Chemistry); - The Italian Association of Chemical Engineering; - The Italian Association of Crystallography; - Italian Liquid Crystals Society.
* *Member of:* - The Steering Committee of the *Interdivisional Focus Group on Structural Chemistry* of the Italian Chemical Society.
* *Consultant activity:* **1)** ENI S.p.A. *Research Advisor*; **2)** Solvay-Solexis S.p.A. *Research Advisor* and *Member of the Technical Committee* of the Solvay Solexis-Politecnico Chair on “Fluorine Chemistry and Fluorinated Materials”; **3)** Daunia Wind S.p.A. *Research Advisor*; **4)** Euticals S.p.A. *Research Advisor*; **5)** Special Tanks S.r.l. *Research Advisor*.
* *Official Italian translator of the books:* **2)** “Chemistry for Engineers” by M. J. Shultz, Ed. Houghton Mifflin: Boston (**2007**); **1)** “*Chemistry: Structure and Dynamics*” by J. N. Spencer, G. M. Bodner, and L. H. Rickard, Ed. John Wiley & Sons: New York (**2002**).
* *Founder and Associate of:* - the spin-off company of the Politecnico di Milano, *FluorIT s.r.l*. (**2012**).