



Europass Curriculum Vitae

Informazioni Personali

Nome / Cognome Marco Polito

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Nazionalità

Data di Nascita

Titolo di studio

2004 Dottorato di Ricerca in Chimica

2002-2003 Host student presso i laboratori del King's College di Londra

2000 Host Student presso il gruppo di ricerca della Fachbereich Chemie, Phillips-Universitat, Marburg, Germania

2000 Abilitazione all'esercizio della professione di chimico

2000 Laurea quinquennale in Chimica (votazione : 110 con lode)

Esperienze lavorative

2016-2017 Ho partecipato a numerose missioni in qualità di "Esperto" durante il gemellaggio: "Enhancement of administrative and Technical capacity of customs Laboratories" tra i laboratori chimici dell'Agenzia delle Dogane italiana e i laboratori chimici delle Dogane Turche.

2008 - Attualmente Chimico delle Dogane presso il laboratorio chimico di Bologna .

Principali attività e responsabilità Analisi di sostanze stupefacenti, analisi chimiche e merceologiche di prodotti dell'industria alimentare (prodotti lattiero-caseari, prodotti da forno ecc.) e dell'industria chimica (denaturanti). Analisi della birra (grado alcolico e grado plato), analisi di alcoli da avviare alla denaturazione.

2001-2008 Assegnista di ricerca presso l'Università degli Studi di Bologna.

Formazione professionale acquisita mediante la partecipazione a corsi organizzati dall'Agenzia delle Dogane

2014 Validazione dei metodi chimici
La legge 190/2012 e il piano nazionale anticorruzione

2013 Corso base di chemometria
E-DRUGS precursor control

	2012	Workshop "Advanced XRD Applications"
	2010	Contrasto alla proliferazione delle armi di distruzione di massa – Prodotti dual-use nei settori nucleare e missilistico Corso di aggiornamento professionale "Il consulente tecnico nei processi Civile e Penale" Corso Unichim- Incertezza di Misura
	2009	Seminario "A global perspective on food safety methods and technologies" Corso di formazione in materia di sicurezza aeroportuale
Competenze linguistiche		
	Madre lingua	Italiana
	Altre lingue	Diploma di conoscenza della lingua inglese FCE- Cambridge conseguito presso il British Council di Bologna
Competenze informatiche		Buona conoscenza del sistema operativo Windows 7, del pacchetto office 2010, del programma di posta elettronica Outlook. Buona conoscenza della rete Internet e dei servizi che essa offre. Ottima conoscenza delle banche dati di tipo chimico. Buona conoscenza del sistema INTRALAB e dei sistemi LIMS per la gestione del laboratorio. Buona conoscenza del sistema AIDA per quello che concerne i laboratori chimici
Pubblicazioni in ambito chimico su riviste internazionali		Vedi allegato 1 per la lista delle pubblicazioni

Allegato 1

1. Braga, D.; Cojazzi, G.; Maini, L.; Polito, M.; Grepioni, F., Seeds obtained from a hydrated polymorph permit crystallisation of an elusive anhydrous organometallic zwitterion. *Chemical Communications* **1999**, (19), 1949-1950.
2. Braga, D.; Maini, L.; Polito, M.; Grepioni, F., Hydrogen bonds within an ionic environment: The remarkable behavior of the zwitterion [Co-III(eta(C5H4COOH)-C-5)(eta(5)-C5H4COO)]. *Organometallics* **1999**, 18, (14), 2577-2579.
3. Braga, D.; Cojazzi, G.; Abati, A.; Maini, L.; Polito, M.; Scaccianoce, L.; Grepioni, F., Making and converting organometallic pseudo-polymorphs via non-solution methods. *Journal of the Chemical Society, Dalton Transactions* **2000**, (21), 3969-3975.
4. Braga, D.; Maini, L.; Polito, M.; Rossini, M.; Grepioni, F., Tunable supramolecular synthons and versatile, water-soluble building blocks for crystal engineering: [(eta(5)-C5H4COOH)(2)Co-III](+) and its zwitterionic form [(eta(5)-C5H4COOH)(eta(5)-C5H4COO)Co-III]. *Chemistry-a European Journal* **2000**, 6, (22), 4227-4235.
5. Braga, D.; Maini, L.; Polito, M.; Scaccianoce, L.; Cojazzi, G.; Grepioni, F., Design of organometallic molecular and ionic materials. *Coordination Chemistry Reviews* **2001**, 216-217, 225-248.
6. Braga, D.; Cojazzi, G.; Emiliani, D.; Maini, L.; Polito, M.; Gobetto, R.; Grepioni, F., Two concomitant polymorphs and two isomorphous forms with different chemical compositions, which transform into the same substance upon thermal treatment. *CrystEngComm* **2002**, 4, 277-281.

7. Braga, D.; Maini, L.; Polito, M.; Grepioni, F., Crystal engineering from weakness to strength. An overview. *NATO Science Series, II: Mathematics, Physics and Chemistry* **2002**, 68, (Strength from Weakness: Structural Consequences of Weak Interactions in Molecules, Supermolecules, and Crystals), 335-353.
8. Braga, D.; Maini, L.; Polito, M.; Grepioni, F., Unexpected solid-solid reaction upon preparation of KBr pellets and its exploitation in supramolecular cation complexation. *Chemical Communications (Cambridge, United Kingdom)* **2002**, (20), 2302-2303.
9. Braga, D.; Maini, L.; Polito, M.; Mirolo, L.; Grepioni, F., Mechanochemical assembly of hydrogen bonded organic-organometallic solid compounds. *Chemical Communications (Cambridge, United Kingdom)* **2002**, (24), 2960-2961.
10. Braga, D.; Polito, M.; Braccaccini, M.; D'Addario, D.; Tagliavini, E.; Proserpio Davide, M.; Grepioni, F., Novel hetero-bimetallic metalla-macrocycles based on the bis-1-pyridyl ferrocene [Fe(eta 5-C5H(4)-1-C5H4N)2] ligand. Design, synthesis and structural characterization of the complexes [Fe(eta 5-C5H(4)-1-C5H4N)2](AgI)2(2+)/(CuII)2(4+)/(ZnII)2(4+). *Chemical communications (Cambridge, England)* **2002**, (10), 1080-1.
11. Canovese, L.; Visentin, F.; Chessa, G.; Santo, C.; Uguagliati, P.; Maini, L.; Polito, M., The mechanism of olefin exchange in platinum(0) pyridyl-methanimine and pyridyl-thioether complexes. A kinetic study. *Journal of the Chemical Society, Dalton Transactions* **2002**, (19), 3696-3704.
12. Braga, D.; Emiliani, D.; Cojazzi, G.; Maini, L.; Polito, M.; Grepioni, F., The reaction of the organometallic acid [(eta(5)-C5H4COOH)(2)Co-III](+) with HBr and HI. Preparation and characterisation of [(eta(5)-C5H4COOH)(2)Co-III]Br and [(eta(5)-C5H4COOH)(2)Co-III]I and hydrogen bridges between cations. *Journal of Molecular Structure* **2003**, 647, (1-3), 113-119.
13. Braga, D.; Maini, L.; Polito, M.; Mirolo, L.; Grepioni, F., Assembly of hybrid organic - organometallic materials through mechanochemical acid - base reactions. *Chemistry--A European Journal* **2003**, 9, (18), 4362-4370.
14. Braga, D.; Maini, L.; Polito, M.; Tagliavini, E.; Grepioni, F., Design of hydrogen bonded networks based on organometallic sandwich compounds. *Coordination Chemistry Reviews* **2003**, 246, (1-2), 53-71.
15. Braga, D.; Polito, M.; Braccaccini, M.; D'Addario, D.; Tagliavini, E.; Sturba, L.; Grepioni, F., Novel Organometallic Building Blocks for Molecular Crystal Engineering. 2. Synthesis and Characterization of Pyridyl and Pyrimidyl Derivatives of Diboronic Acid, [Fe(h5-C5H4-B(OH)2)2], and of Pyridyl Boronic Acid, [Fe(h5-C5H4-4-C5H4N)(h5-C5H4-B(OH)2)]. *Organometallics* **2003**, 22, (10), 2142-2150.
16. Braga, D.; Polito, M.; D'Addario, D.; Tagliavini, E.; Proserpio, D. M.; Grepioni, F.; Steed, J. W., Design, Synthesis, and Structural Characterization of Molecular and Supramolecular Heterobimetallic Metallamacrocycles Based on the 1,1'-Bis(4-pyridyl)ferrocene (Fe(h5-C5H4-1-C5H4N)2) Ligand. *Organometallics* **2003**, 22, (22), 4532-4538.
17. Braga, D.; Curzi, M.; Maini, L.; Polito, M.; Grepioni, F., Crystal synthesis of hybrid organometallic-inorganic hydrogen bonded salts of acid oxoanions. *Dalton Transactions* **2004**, (16), 2432-2437.
18. Braga, D.; D'Addario, D.; Polito, M.; Grepioni, F., Mechanically Induced Expeditious and Selective Preparation of Disubstituted Pyridine/Pyrimidine Ferrocenyl Complexes. *Organometallics* **2004**, 23, (11), 2810-2812.
19. Braga, D.; Giaffreda, S. L.; Grepioni, F.; Polito, M., Mechanochemical and solution preparation of the coordination polymers Ag[N(CH2CH2)3N]2[CH3COO].5H2O and Zn[N(CH2CH2)3N]Cl2. *CrystEngComm* **2004**, 6, 458-462.
20. Braga, D.; Maini, L.; Polito, M.; Giaffreda, S.; Rubini, K.; Grepioni, F., Making, using, transforming crystals: an organometallic hydrogen bonded material that reacts with vapors and crystals. *ACA Transactions* **2004**, 39, 140-153.
21. Braga, D.; Maini, L.; Polito, M.; Grepioni, F., Hydrogen bonding interactions between ions: a powerful tool in molecular crystal engineering. *Structure and Bonding (Berlin, Germany)* **2004**, 111, (Supramolecular Assembly via Hydrogen Bonds II), 1-32.
22. Braga, D.; Polito, M.; D'Addario, D.; Grepioni, F., Polymorphism of Molecular Organometallic Crystals. A Third Form of the Supramolecular Hydrogen-Bonded Dimer {[FeII(h5-C5H4COOH)2]2}. *Crystal Growth & Design* **2004**, 4, (6), 1109-1112.
23. Braga, D.; Polito, M.; Grepioni, F., Novel Organometallic Building Blocks for Molecular Crystal Engineering. 3. Synthesis, Characterization, and Hydrogen Bonding of the Crystalline Mono- and Bis-Amide Derivatives of [CoIII(h5-C5H4-COOH)2]+ and of the Cationic Zwitterion [CoIII(h5-C5H4CONHC5H4NH)(h5-C5H4COO)]+. *Crystal Growth & Design* **2004**, 4, (4), 769-774.
24. Braga, D.; Curzi, M.; Grepioni, F.; Polito, M., Mechanochemical and solution reactions between AgCH3COO and [H2NC6H10NH2] yield three isomers of the coordination network {Ag[H2NC6H10NH2]+}. *Chemical Communications (Cambridge, United Kingdom)* **2005**, (23), 2915-2917.
25. Braga, D.; Curzi, M.; Johansson, A.; Polito, M.; Rubini, K.; Grepioni, F., Simple and quantitative mechanochemical preparation of a porous crystalline material based on a 1D coordination network for uptake of small molecules. *Angew Chem Int Ed Engl FIELD Full Journal Title:Angewandte Chemie (International ed. in English)* **2005**, 45, (1), 142-6.
26. Braga, D.; D'Addario, D.; Giaffreda, S. L.; Maini, L.; Polito, M.; Grepioni, F., Intra-solid and inter-solid reactions of molecular crystals: A green route to crystal engineering. In *Organic Solid State Reactions*, Toda, F., Ed. Springer: Berlin / Heidelberg, 2005; Vol. 254, pp 71-94.
27. Braga, D.; D'Addario, D.; Giaffreda, S. L.; Maini, L.; Polito, M.; Grepioni, F., Intra-solid and inter-solid reactions of molecular crystals: A green route to crystal engineering. *Topics in Current Chemistry* **2005**, 254, (Organic Solid State Reactions), 71-94.
28. Braga, D.; Giaffreda, S. L.; Polito, M.; Grepioni, F., Design, preparation and characterization of the adducts of the bis-amido cobalticinium complex [CoIII(h5-C5H4CONHC5H4N)2][PF6] with fumaric and maleic acids. *European Journal of Inorganic Chemistry* **2005**, (13), 2737-2746.
29. Braga, D.; Polito, M.; Giaffreda, S. L.; Grepioni, F., Novel organometallic building blocks for molecular crystal engineering. Part 4. Synthesis and characterization of mono- and bis-amido derivatives of [CoIII(h5-C5H4COOH)2]+ and their utilization as ligands. *Dalton Transactions* **2005**, (16), 2766-2773.
30. Herber, R. H.; Nowik, I.; Braga, D.; Polito, M., 57Fe Mossbauer parameters of two crystal polymorphs of Fc+AsF6- and the sign of the quadrupole splitting in the ferrocenium ion. *Journal of Nuclear and Radiochemical Sciences* **2005**, 7, (1), 13-15.
31. Paolucci, D.; Marcaccio, M.; Bruno, C.; Braga, D.; Polito, M.; Paolucci, F.; Grepioni, F., Ferrocenyl-Based p-Conjugated Complexes: Modulation of Electronic Properties by Symmetric/Asymmetric Cyclopentadienyl Substitution. *Organometallics* **2005**, 24, (6), 1198-1203.
32. Braga, D.; Curzi, M.; Johansson, A.; Polito, M.; Rubini, K.; Grepioni, F., Simple and quantitative mechanochemical preparation of a porous crystalline material based on a 1D coordination network for uptake of small molecules. *Angewandte Chemie, International Edition* **2006**, 45, (1), 142-146.
33. Braga, D.; D'Addario, D.; Maini, L.; Polito, M.; Giaffreda, S. L.; Rubini, K.; Grepioni, F., Applications of Crystal Engineering Strategies in Solvent-free Reactions: Toward a Supramolecular Green Chemistry. In *Frontiers in Crystal Engineering*, Tiekink, E. R. T.; Vittal, J. J., Eds. John Wiley & Sons Ltd: Chichester UK, 2006; pp 1-23.

34. Braga, D.; Giaffreda, S. L.; Grepioni, F.; Maini, L.; Polito, M., Design, synthesis, characterization and utilization of hydrogen bonded networks based on functionalized organometallic sandwich compounds and the occurrence of crystal polymorphism. *Coordination Chemistry Reviews* **2006**, 250, (11+12), 1267-1285.
35. Braga, D.; Giaffreda, S. L.; Grepioni, F.; Pettersen, A.; Maini, L.; Curzi, M.; Polito, M., Mechanochemical preparation of molecular and supramolecular organometallic materials and coordination networks. *Dalton Transactions* **2006**, (10), 1249-1263.
36. Braga, D.; Grepioni, F.; Polito, M.; Chierotti, M. R.; Ellena, S.; Gobetto, R., A Solid-Gas Route to Polymorph Conversion in Crystalline [Fe(h5-C5H4COOH)2]. A Diffraction and Solid-State NMR Study. *Organometallics* **2006**, 25, (19), 4627-4633.
37. Braga, D.; Maini, L.; Polito, M.; Grepioni, F., Organometallic Crystal Engineering. In *Applications III: Functional Materials, Environmental and Biological Applications*, O'Hare, D., Ed. Elsevier: 2006; Vol. 12.
38. Herber, R. H.; Nowik, I.; Braga, D.; Polito, M., 57Fe Mössbauer Parameters of Two Crystal Polymorphs of Fc+AsF6- and the Sign of the Quadrupole Splitting in the Ferrocenium Ion. *Journal of Nuclear and Radiochemical Sciences* **2006**, 7, (1), 13-15.
39. Barbas, R.; Polito, M.; Prohens, R.; Puigjaner, C., Polymorphism of (S)-triphenylglycol: kinetic dependent transformation of a new multipolymorphic system. *Chemical Communications (Cambridge, United Kingdom)* **2007**, (34), 3538-3540.
40. Braga, D.; Chierotti, M. R.; Garino, N.; Gobetto, R.; Grepioni, F.; Polito, M.; Viale, A., Cis-trans isomerization in crystalline [(eta(5)-C5H5)Fe(mu-CO)(CO)](2). *Organometallics* **2007**, 26, (9), 2266-2271.
41. Braga, D.; Chierotti, M. R.; Garino, N.; Gobetto, R.; Grepioni, F.; Polito, M.; Viale, A., Cis-trans isomerization in crystalline [(h5-C5H5)Fe(m-CO)(CO)]2. *Organometallics* **2007**, 26, (9), 2266-2271.
42. Braga, D.; Gandolfi, M.; Lusi, M.; Paolucci, D.; Polito, M.; Rubini, K.; Grepioni, F., Solution and solid-state preparation of 18-crown[6] complexes with M[H2SO4](n) salts (M = NH4+, K+, Sr2+ and n=1, 2) and an investigation of solvation/desolvation processes and crystal polymorphism. *Chemistry-a European Journal* **2007**, 13, (18), 5249-5255.
43. Braga, D.; Gandolfi, M.; Lusi, M.; Polito, M.; Rubini, K.; Grepioni, F., Solution and solid-state preparation of 18-crown-6 and 15-crown-5 adducts of hydrogen sulfate salts and an investigation of the reversible dehydration processes. *Crystal Growth & Design* **2007**, 7, (5), 919-924.
44. Braga, D.; Giaffreda, S.; Curzi, M.; Maini, L.; Polito, M.; Grepioni, F., Mechanical mixing of molecular crystals. *Journal of Thermal Analysis and Calorimetry* **2007**, 90, (1), 115-123.
45. Braga, D.; Giaffreda, S. L.; Curzi, M.; Maini, L.; Polito, M.; Grepioni, F., Mechanical mixing of molecular crystals. *Journal of Thermal Analysis and Calorimetry* **2007**, 90, (1), 115-123.
46. Braga, D.; Giaffreda, S. L.; Grepioni, F.; Chierotti, M. R.; Gobetto, R.; Palladino, G.; Polito, M., Solvent effect in a "solvent free" reaction. *CrystEngComm* **2007**, 9, (10), 879-881.
47. Braga, D.; Polito, M.; Dichiarante, E.; Rubini, K.; Grepioni, F., Reversible solid-state reaction between 18-Crown[6] and M[H2PO4] (M = K, Rb, Cs) and an investigation of the decomplexation process. *Chemical Communications* **2007**, (16), 1594-1596.
48. Braga, D.; Curzi, M.; Giaffreda, S. L.; Grepioni, F.; Maini, L.; Pettersen, A.; Polito, M., Nanoporous crystals, co-crystals, isomers and polymorphs from crystals. *Organic Nanostructures* **2008**, 155-177.
49. Braga, D.; Curzi, M.; Giaffreda, S. L.; Grepioni, F.; Maini, L.; Pettersen, A.; Polito, M., Crystal Engineering with ferrocene compounds. *Ferrocenes* **2008**, 465-498.
50. Braga, D.; Giaffreda, S. L.; Grepioni, F.; Palladino, G.; Polito, M., Mechanochemical assembly of hybrid organic-organometallic materials. Solid-solid reactions of 1,1'-di-pyridyl-ferrocene with organic acids. *New Journal of Chemistry* **2008**, 32, (5), 820-828.
51. Viscomi, G. C.; Campana, M.; Barbanti, M.; Grepioni, F.; Polito, M.; Confortini, D.; Rosini, G.; Righi, P.; Cannata, V.; Braga, D., Crystal forms of rifaximin and their effect on pharmaceutical properties. *CrystEngComm* **2008**, 10, (8), 1074-1081.
52. Braga, D.; Modena, E.; Polito, M.; Rubini, K.; Grepioni, F., Crystal forms of highly "dynamic" 18-crown[6] complexes with M[H2SO4] and M[H2PO4] (M+ = NH4+, Rb+, Cs+): thermal behaviour and solid-state preparation. *New Journal of Chemistry* **2008**, 32, (10), 1718-1724.
53. Braga, D.; Grepioni, F.; Maini, L.; Rubini, K.; Polito, M.; Brascello, R.; Cotarca, L.; Duarte, T.; André, V.; Piedade, M.F., Polymorphic gabapentin: thermal behaviour, reactivity and interconversion of forms in solution and solid-state. *New Journal of Chemistry* **2008**, 32, (10), 1788.
54. Braga, D.; D'Agostino, S.; Polito, M.; Rubini, K.; Grepioni, F., Caesium 18-crown[6] complexes with aromatic polycarboxylate anions: preparation, solid-state characterization and thermal behaviour. *CrystEngComm* **2009**, 11, 1994-2002.
55. Braga, D.; Grepioni, F.; Maini, L.; Polito, M., Crystal polymorphism and multiple crystal forms. *Structure and Bonding (Springer Berlin/Heidelberg, Germany)* **2009**, 132, 25-50.
56. Portell, A.; Barbas, R.; Braga, D.; Polito, M.; Puigjaner, C.; Prohens, R., New polymorphic hydrogen bonding donor-acceptor system with two temperature coincident solid-solid transitions. *CrystEngComm* **2009**, 11, 52-54.