

## *CURRICULUM VITAE*

**Marius ANDRUH**

Birth date

Address:

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Languages: English, French, German

**Member of the Romanian Academy (Corresponding Member: June 2001, Full Member: April 2009).**

**Member of the Academia Europaea (London) – 2004.**

**Membre correspondant de l'Académie Européenne des Sciences, des Arts et des Lettres (Paris) – 2004.**

**Member of the European Academy of Sciences – 2010.**

**Head of the Inorganic Chemistry Department, Faculty of Chemistry.**

**President of the Chemical Sciences Section of the Romanian Academy (2009 -).**

### **Education**

Post-doc: *A. von Humboldt* fellow

(February 1992-August 1993) Institut für Anorganische Chemie der Universität  
Göttingen  
(Professor Herbert W. Roesky)

Post-doc

(January 1991-January 1992) Université de Paris-Sud, Laboratoire de Chimie  
Inorganique

Ph.D. (1988) (Professor Olivier Kahn)  
University of Bucharest; Topic of Thesis:  
*Coordination Compounds of Fe(II), Ni(II) and Co(II) with Pyridine Derivatives: Electronic Structure and Thermal Behaviour* (Professor Maria Brezeanu)

M.S. (1979) University of Bucharest  
Inorganic Chemistry and Physical Chemistry

**Employment**  
1996 - present: **Professor of Inorganic Chemistry, University of Bucharest**, Faculty of Chemistry  
1994-1996 - Associate Professor at the University of Bucharest and *Professeur associé*, Université du Québec à Montréal  
1990-1994: Lecturer, University of Bucharest  
1984-1990: Assistant Professor, University of Bucharest  
1982-1984: Research Assistant, Institute of Physical Chemistry of the Romanian Academy, Bucharest  
1979-1982: Chemist, Semiconductor Devices Plant, Bucharest

Director of the Doctorate School in Chemistry, University of Bucharest (2005 – 2011)

**Visiting Professor**  
Université de Bordeaux I and Institut Universitaire de France (April-June 1998).  
Universität Göttingen (April-July 2001).  
Mazaryk University Brno, November 2001.  
Université d'Angers (2003, 2004, 2009).  
Université Pierre et Marie Curie Paris, July 2005.  
Friedrich-Schiller-Universität, Jena, February 2006.  
University of Manchester, March 2006.  
*Gauss Professorship*, Akademie der Wissenschaften zu Göttingen (November-December 2006).  
Université Louis Pasteur, Strasbourg, February 2007; November 2009.  
Université Paul Sabatier, Toulouse, June 2007.

Universitat de Valencia, April-June, November 2010.

Unversidade Federal Fluminense, Niterói, Rio de Janeiro, Brazil  
(October-December 2012, June 2013, October 2014-January  
2015).

Université de Bordeaux, Centre de Recherche Paul Pascal  
(January 2014).

**Research interests**    *Chemistry of polynuclear coordination compounds:*  
Homo- and heteropolynuclear complexes. Metallosupramolecular  
Chemistry. Crystal Engineering.  
Magnetic properties of polymetallic complexes.

**Teaching**                      *Inorganic Chemistry* - bachelor level, University of Bucharest  
*Coordination Chemistry* - bachelor level, University of  
Bucharest  
*Bioinorganic Chemistry* – Bachelor level University of  
Bucharest  
*Inorganic Stereochemistry* - M. S. level, University of  
Bucharest  
*Inorganic Chemistry I* -  
Université du Québec à Montréal (1994 – 1996).  
*Polynuclear Complexes* - M. S. level, University of  
Bucharest  
*Supramolecular Chemistry*, M. S. level, University of  
Bucharest.

**Publications**                      **250** papers, 3 books, 3 patents

**86** invited seminars, lectures, plenary lectures and keynotes in international conferences.  
**26** invited lectures in Romania .

**Awards**                              "G. Spacu" Prize for Chemistry of the Romanian Academy  
(1990)

Nenitzescu – Criegee Lectureship awarded by the Gesellschaft

Deutscher Chemiker (2009).

For Merit National Order (2008)

Gauss Professorship, Akademie der Wissenschaften zu Göttingen, 2006.

*G. Spacu* Medal of the Romanian Chemical Society (2009)

Honorary Member of the Romanian Materials Science Crystal Growth Society (2009).

*Doctor Honoris Causa*, Universitatea de Vest Timisoara (2013);  
Universitatea Babeș-Bolyai, Cluj-Napoca (2015).

**Member**

Editor-in-Chief *Revue Roumaine de Chimie*

Board of Directors, *European Institute of Molecular Magnetism*  
(2008 -)

Editorial Board: *Journal of Coordination Chemistry* (2010 -);  
*Magnetochemistry* (2015. -);  
*ChemistrySelect* (2015 -).

National Chemistry Olympiad (member since 1985; President since 2006); Head Mentor of the Romanian team for the International Chemistry Olympiad (since 2006).

**Referee**

*Angew. Chem., J. Am. Chem. Soc., Chem. Sci., Chem.-Eur. J.; Chem. Commun.; Inorg. Chem.; Dalton Trans.; Eur. J. Inorg. Chem.; Cryst. Growth & Des.; CrystEngComm.; Adv. Mater., Chem. Soc. Rev., Chem. Rev., J. Phys. Chem., New J. Chem., Inorg. Chim. Acta; Inorg. Chem. Commun.; Polyhedron; Coord. Chem. Rev.; J. Molec. Struct.; J.*

*Inclusion Phenom.; J. Solid State Sci., Z. Anorg. Allgem. Chem.,  
Nanoscale.*

**Citations**

more than 6200, *h* index = 40 (March 2015)

LIST OF PUBLICATIONS

- 251.
250. One-dimensional coordination polymers, constructed from binuclear 3d-4f nodes and isonicotinato spacers. Synthesis, crystal structures and magnetic properties.  
A. Patrascu, S. Calancea, R. A. Allão Cassaro, S Soriano, A .M. Madalan, C. Maxim, M. A. Novak, M. G. F. Vaz, M. Andruh, *CrystEngComm.*, accepted.
249. A new family of  $[\text{Cu}^{\text{II}}\text{Ln}^{\text{III}}\text{M}^{\text{V}}]$  heterotrimetallic complexes (Ln = La, Gd, Tb; M = Mo, W): Model systems to probe exchange interactions and Single-Molecule Magnet properties.  
D. Visinescu, M.-G. Alexandru, A. M. Madalan, I.-R. Jeon, C. Mathonière, R. Clérac, M. Andruh, *Dalton Trans.*, **45**, 7642 (2016).
248. First coordination compounds based on a bis(imino nitroxide) biradical and 4f metal ions: synthesis, crystal structures and magnetic properties.  
S. G. Reis, M. Briganti, D. O. T. A. Martins, H. Akpınar, S. Calancea, G. P. Guedes, S. Soriano, M. Andruh, R. A. A. Cassaro, P. M. Lahti, F. Totti, M. G. F. Vaz, *Dalton Trans.*, **45**, 2936 (2016).
247. A two-dimensional coordination polymer constructed from binuclear copper(II) metalloligands and manganese(II) ions: synthesis, crystal structure and magnetic properties.  
A. S. Dinca, C. Maxim, B. Cojocaru, F. Lloret, M. Julve, M. Andruh, *Inorg. Chim. Acta*, **440**, 148 (2016).
- 246 Interplay of hydrogen bond and stacking interactions in the crystal structure of a new mononuclear zinc complex.  
A. Cucos, C. Paraschiv, S. Shova, A. Madalan, G. Sbarcea, V. Marinescu, M. Andruh, *Rev. Roum. Chim.*, **60**, 1005 (2015).
- 245 A new two-dimensional supramolecular Zn(II) system assembled via hydrogen bonds established between the terephthalate dianion and the triethanolamine ligand.  
A. Cucos, C. Paraschiv, C. Maxim, G. Sbarcea, V. Tudor, M. Andruh, *Rev. Roum. Chim.*, **60**, 997 (2015).
244. A two-dimensional  $\text{Cu}^{\text{II}}\text{-Mn}^{\text{II}}$  heterometallic coordination polymer: structure determination using synchrotron X-ray powder diffraction and magnetic properties.  
M. Kalisz, R. A. A. Cassaro, M. A. Novak, M. Andruh, H. S. Amorim, M. G. F. Vaz, *CrystEngComm*, **17**, 7423 (2015).
243. The exceptionally rich coordination chemistry generated by Schiff-base ligands derived from *o*-vanillin.  
M. Andruh, *Dalton Trans.* **44**, 16633 (2015) (**Perspective, Cover picture**).
242. Magneto-structural variety of new 3d-4f-4(5)d heterotrimetallic complexes.

- D. Visinescu, M.-G. Alexandru, A. M. Madalan, C. Pichon, C. Duhayon, J.-P. Sutter, M. Andruh, *Dalton Trans.*, 44, 16713 (2015) (**Cover picture**).
241. Atmospheric CO<sub>2</sub> capture by a triphenyltin –1,2-bis(4-pyridyl)ethane system with formation of a rare trinuclear carbonato-centered core.  
A.-E. Ghionoiu, D.-L. Popescu, C. Maxim, A. M. Madalan, I. Haiduc, M. Andruh, *Inorg. Chem. Commun.*, **58**, 71 (2015).
240. Bis(4-pyridyl)mercury – a new linear tecton in crystal engineering: coordination polymers and co-crystallization processes.  
T. Mocanu, C. I. Raț, C. Maxim, S. Shova, V. Tudor, C. Silvestru, M. Andruh, *CrystEngComm*, **17**, 5474 (2015).
239. Synthesis and crystal structures of three new cyanido-bridged heterometallic complexes.  
A. Dogaru, P. Dechambenoit, S. Shova, M. Andruh, *Rev. Roum. Chim.*, **60**, 371 (2015).
238. [Ru<sup>III</sup>(valen)(CN)<sub>2</sub>]<sup>-</sup>: a new building block to design 4d-4f heterometallic complexes, G. Marinescu, C. Maxim, R. Clérac, M. Andruh, *Inorg. Chem.*, **54**, 5621 (2015).
237. Synthesis and characterization of montmorillonite clay intercalated with molecular magnetic compounds.  
M. G. Martins, D. O. T. A. Martins, B. L. C. de Carvalho, L. A. Mercante, S. Soriano, M. Andruh, M. D. Vieira, M. G. F. Vaz, *J. Solid State Chem.*, **228**, 99 (2015).
236. A novel 2-D coordination polymer with mixed azido and alkoxido bridges: Synthesis, structure and magnetic properties.  
L. Stoicescu, C. Maxim, M. Rouzières, M. Hillebrand, R. Clérac, M. Andruh, *Polyhedron*, **92**, 111 (2015).
235. Ascorbic acid decomposition into oxalate ions: a simple synthetic route towards oxalato-bridged heterometallic 3d-4f clusters.  
A. S. Dinca, S. Shova, A. E. Ion, C. Maxim, F. Lloret, M. Julve, M. Andruh, *Dalton Trans.*, 44, 7148 (2015).
234. A new quartz-like metal-organic framework constructed from a versatile pyrazole-based spacer.  
G. P. Guedes, L. A. Mercante, I. F. Santos, N. L. Speziali, J.A. L. C. Resende, A. M. R. Bernardino, M. Andruh, M. G. F. Vaz, *Cryst. Growth & Des.*, **15**, 1027 (2015).
233. New Zn(II) coordination polymers constructed from amino-alcohols and aromatic dicarboxylic acids: synthesis, structure, photocatalytic properties and solid-state conversion to ZnO.  
C. Paraschiv, A. Cucos, S. Shova, A. M. Madalan, C. Maxim, D. Visinescu, B. Cojocaru, V. I. Parvulescu, M. Andruh, *Cryst Growth & Des.*, **15**, 799 (2015).
232. Heterotrimetallic coordination polymers: {Cu<sup>II</sup>Ln<sup>III</sup>Fe<sup>III</sup>} chains and {Ni<sup>II</sup>Ln<sup>III</sup>Fe<sup>III</sup>} layers. Synthesis, crystal structures and magnetic properties.

- M.-G. Alexandru, D. Visinescu, M. Andruh, N. Marino, D. Armentano, J. Cano, F. Lloret, M. Julve, *Chem.-Eur. J.*, **21**, 5429 (2015).
231. Two-dimensional coordination polymers constructed using, simultaneously, linear and angular spacers and cobalt(II) nodes. New examples of networks of single ion magnets.  
A. E. Ion, S. Nica, A. M. Madalan, S. Shova, J. Vallejo, M. Julve, F. Lloret, M. Andruh, *Inorg. Chem.*, **54**, 16 (2015).
230. New heterometallic coordination polymers based on zinc(II) complexes with Schiff-base ligands and dicyanometallates. Synthesis, crystal structures and luminescent properties.  
G. Marinescu, A. M. Madalan, M. Andruh, *J. Coord. Chem.*, **68**, 479 (2015).
229. New coordination polymers with chromato bridges:  $^1_{\infty}[\text{Ni}(\text{phen})(\text{H}_2\text{O})_2(\mu\text{-O}_2\text{CrO}_2)]$  and  $^3_{\infty}[\text{Mn}(4,4'\text{-bipy})(\text{H}_2\text{O})(\mu\text{-O}_3\text{CrO})]\cdot\text{H}_2\text{O}$ .  
A. Dumbrava, R. Olar, M. Badea, C. Maxim, D. Ghica, M. Andruh, *Inorg. Chim. Acta*, **426**, 50 (2015).
228. Polynuclear zinc(II) complexes with adamantane-dicarboxylato-bridges. Crystal structures and luminescence properties.  
G. Marinescu, A. M. Madalan, M. Andruh, *Rev. Roum. Chim.*, **59**, 939 (2014).
227. Single-chain magnetic behavior in a hetero-tri-spin complex mediated by supramolecular interactions with TCNQF<sup>-</sup> radicals.  
Z.-X. Wang, X. Zhang, Y.-Z. Zhang, M.-X. Li, M. Andruh, K. R. Dunbar, *Angew. Chem., Int. Ed.*, **53**, 11567 (2014).
226. Magnetic and luminescent binuclear double stranded helicates.  
P. Cucos, F. Tuna, L. Sorace, I. Matei, C. Maxim, S. Shova, R. Gheorghe, A. Caneschi, M. Hillebrand, M. Andruh, *Inorg. Chem.*, **53**, 7738 (2014).
225. New families of hetero-tri-spin 2p-3d-4f complexes: Synthesis, crystal structures and magnetic properties.  
L. B. L. Escobar, G. P. Guedes, S. Soriano, N. L. Speziali, A. K. Jordão, A. C. Cunha, V. F. Ferreira, C. Maxim, M. A. Novak, M. Andruh, M. G. F. Vaz, *Inorg. Chem.*, **53**, 7508 (2014).
224. Octanuclear  $[\text{Ni}^{\text{II}}_4\text{Ln}^{\text{III}}_4]$  complexes. Synthesis, crystal structures and magnetocaloric properties.  
T. D. Pasatoiu, A. Ghirri, A. M. Madalan, M. Affronte, M. Andruh, *Dalton Trans.*, **43**, 9136 (2014).
223. New bidimensional honeycomb  $\text{Co}^{\text{II}}\text{-Fe}^{\text{III}}$  and brick wall  $\text{Fe}^{\text{II}}\text{-Co}^{\text{III}}$  cyanido-bridged coordination polymers: Synthesis, crystal structures and magnetic properties.  
A. Dogaru, C. Pichon, R. Ababei, D. Mitcov, C. Maxim, L. Toupet, C. Mathonière, R. Clérac, M. Andruh, *Polyhedron*, **75**, 146 (2014).
222. Cyanomethylene-bis(phosphonate) based lanthanides complexes: Structural, photophysical and magnetic investigations.



- C. Maxim, D. G. Branzea, C. Tiseanu, M. Rouzières, R. Clérac, M. Andruh, N. Avarvari, *Inorg. Chem.*, **53**, 2708 (2014).
221. One-dimensional coordination polymers constructed from di- and trinuclear {3d - 4f} tectons. A new useful spacer in crystal engineering: 1,3-bis(4-pyridyl)azulene. A. E. Ion, S. Nica, A. M. Madalan, C. Maxim, M. Julve, F. Lloret, M. Andruh, *CrystEngComm.*, **16**, 318 (2014) (Cover picture, hot paper, November 2013).
220. Two-dimensional coordination polymers constructed by  $[\text{Ni}^{\text{II}}\text{Ln}^{\text{III}}]$  nodes and  $[\text{W}^{\text{IV}}(\text{bpy})(\text{CN})_6]^{2-}$  spacers: a network of  $[\text{Ni}^{\text{II}}\text{Dy}^{\text{III}}]$  Single Molecule Magnets. M.-G. Alexandru, D. Visinescu, S. Shova, F. Lloret, M. Julve, M. Andruh, *Inorg. Chem.*, **52**, 11627 (2013).
219. Synthesis, crystal structure and magnetic properties of a new  $[\text{Zn}^{\text{II}}_6\text{Dy}^{\text{III}}_6]$  dodecanuclear motif. A. S. Dinca, J. Vallejo, S. Shova, F. Lloret, M. Julve, M. Andruh, *Polyhedron*, **65**, 238 (2013).
218. A 3-D coordination network constructed from an angular bis-oxamato tecton and calcium ions. R. A. Allão Cassaro, J. A. L. C. Resende, S. Santos Jr., L. Sorace, M. Andruh, M. G. F. Vaz, *CrystEngComm.*, **15**, 8422 (2013).
217. New synthetic route toward heterometallic 3d-3d' and 3d-4f Single-Molecule Magnets. The first  $\text{Co}^{\text{II}}\text{-Mn}^{\text{III}}$  heterometallic complex. G. P. Guedes, S. Soriano, L. A. Mercante, N. L. Speziali, M. A. Novak, M. Andruh, M. G. F. Vaz, *Inorg. Chem.*, **52**, 8309 (2013).
216. Synthesis and crystal structures of two new cyanido-bridged  $[\text{Mn}^{\text{III}}_5\text{Mo}^{\text{IV}}]$  and  $[\text{Mn}^{\text{III}}_2\text{Au}^{\text{I}}]$  heterometallic complexes. S. Nastase, C. Maxim, C. Duhayon, J.-P. Sutter, M. Andruh, *Rev. Roum. Chim.*, **58**, 355 (2013).
215. Supramolecular homometallic Cr(III) systems resulting from second coordination sphere interactions. V. Iucha, R. Gheorghe, A. M. Madalan, M. Andruh, *Rev. Roum. Chim.*, **58**, 255 (2013).
214. An angular bis-oxamate tecton for the construction of heterobimetallic coordination polymers. R. A. Allão Cassaro, S. Ciattini, S. Soriano, H. S. Amorim, N. L. Speziali, M. Andruh, M. G. F. Vaz, *Cryst. Growth & Des.*, **13**, 2711 (2013).
213. Mixed ligand binuclear alkoxo-bridged copper(II) complexes derived from aminoalcohols and nitrogen ligands. V. Tudor, T. Mocanu, F. Tuna, A. M. Madalan, C. Maxim, S. Shova, M. Andruh, *J. Molec. Struct.*, **1046**, 164 (2013).
212. A new synthetic route towards binuclear 3d-4f complexes, using non-compartmental ligands derived from *o*-vanillin. Syntheses, crystal structures, magnetic and

- luminescent properties.  
M. Sarwar, A.M. Madalan, C. Tiseanu, G. Novitchi, C. Maxim, G. Marinescu, D. Luneau, M. Andruh, *New J. Chem.*, **37**, 2280 (2013) (**Cover picture**).
211. Postsynthetic modification of a MOF structure for enantioselective catalytic epoxidation.  
N. Candu, M. Tudorache, M. Florea, E. Ilyes, F. Vasiliu, I. Mercioniu, S. M. Coman, I. Haiduc, M. Andruh, V. I. Pârvulescu, *ChemPlusChem*, **78**, 443 (2013).
210. Coordination polymers constructed from oligonuclear nodes.  
M. Andruh, *Chimia*, **67**, 383 (2013) (**themed issue Coordination polymers: from structures to applications**).
209. Supported monocationic copper(II) complexes obtained by coordination with dialkylphosphonate groups on styrene-divinylbenzene copolymer as catalysts for oxidation of organic compounds.  
V. Parvulescu, V. Niculescu, R. Ene, A. Popa, M. Muresanu, C. D. Ene, M. Andruh, *J. Molec. Cat. A: Chemical*, **366**, 275 (2013).
208.  $C_3$ -symmetric trinuclear copper(II) species as tectons in crystal engineering.  
A. E. Ion, S. Nica, A. M. Madalan, F. Lloret, M. Julve, M. Andruh, *CrystEngComm.*, **15**, 294 (2013).
207. Self-assembly of  $[Cu^{II}Tb^{III}]^{3+}$  and  $[W(CN)_8]^{3-}$  tectons: a case study of a mixture containing two complexes showing slow-relaxation of the magnetization.  
D. Visinescu, I.-R. Jeon, A. M. Madalan, M.-G. Alexandru, B. Jurca, C. Mathonière, R. Clérac, M. Andruh, *Dalton Trans.*, **41**, 13578 (2012) (**themed issue Frontier and perspectives in molecule-based quantum magnets**).
206. A dinuclear iron(III) complex bridged by the dianion of trimesic acid –  $[Fe(3-MeOsaldmpn)(H_2O)_2]_2Htrim] \cdot H_2O$ : synthesis, crystal structure and magnetic properties.  
M. Sarwar, A. M. Madalan, C. Maxim, M. Andruh, *Rev. Roum. Chim.*, **57**, 687 (2012).
205. A robust metal-organic framework constructed from alkoxo-bridged binuclear nodes and hexamethylenetetramine spacers: Crystal structure and sorption studies.  
E. Ilyes, M. Florea, A. M. Madalan, I. Haiduc, V. I. Parvulescu, M. Andruh, *Inorg. Chem.*, **51**, 7954 (2012).
204. Crystal structures and magnetic properties of two new heterodinuclear  $[Ni^{II}Ln^{III}]$  complexes obtained using a side-off compartmental ligand and 2,6-pyridyl-dicarboxylato coligand.  
T. D. Pasatoiu, M. Etienne, A. M. Madalan, R. Sessoli, M. Andruh, *Rev. Roum. Chim.*, **57**, 507 (2012).
203. One- and two-photon induced emission in heterobimetallic  $Zn^{II}-Sm^{III}$  and  $Zn^{II}-Tb^{III}$  complexes with a side-off compartmental ligand.  
T. D. Pasatoiu, A. M. Madalan, M. Zamfirescu, C. Tiseanu, M. Andruh, *Phys. Chem. Chem. Phys.*, **14**, 11448 (2012).

202. [W(bipy)(CN)<sub>6</sub>]<sup>-</sup>: a suitable metalloligand in the design of heterotrimetallic complexes. The first Cu<sup>II</sup>Ln<sup>III</sup>W<sup>V</sup> trinuclear complexes.  
M.-G. Alexandru, D. Visinescu, A. M. Madalan, F. Lloret, M. Julve, M. Andruh, *Inorg. Chem.*, **51**, 4906 (2012).
201. Dodecanuclear [Cu<sup>II</sup><sub>6</sub>Gd<sup>III</sup><sub>6</sub>] nanoclusters as magnetic refrigerants.  
A. S. Dinca, A. Ghirri, A. M. Madalan, M. Affronte, M. Andruh, *Inorg. Chem.*, **51**, 3935 (2012).
200. Tetranuclear zinc(II) complexes with compartmental and dicyanamido ligands: Synthesis, structure, and luminescent properties.  
G. Marinescu, A. M. Madalan, S. Shova, M. Andruh, *J. Coord. Chem.*, **65**, 1539 (2012).
199. Cyanido-bridged heterometallic oligonuclear complexes and coordination polymers constructed using tridentate Schiff-Base ligands: Synthesis, crystal structures, and magnetic and luminescence properties. A new trimeric water cluster.  
C. Maxim, F. Tuna, A. M. Madalan, N. Avarvari, M. Andruh, *Cryst. Growth & Des.*, **12**, 1654 (2012).
198. Cyanomethylene-bis(phosphonate) as ditopical ligand: stepwise formation of a 2-D heterometallic Fe(III)-Ag(I) coordination network.  
C. Maxim, D. Branzea, M. Andruh, R. Clérac, B. Iorga, N. Avarvari, *CrystEngComm.*, **14**, 3096 (2012).
197. Pentacyanido(L)ferrate(III) complexes: crystal structures, electrochemical and DFT studies (L = pyrazine, 4,4'-bipyridine, azide).  
C. D. Ene, A. Lungu, C. Mihailciuc, M. Hillebrand, C. Ruiz-Pérez, M. Andruh, *Polyhedron*, **31**, 539 (2012).
196. Magnetic properties and spin dynamics of 3d-4f molecular complexes.  
P. Khuntia, M. Mariani, A. V. Mahajan, A. Lascialfari, F. Borsa, T. D. Pasatoiu, M. Andruh, *Phys. Rev. B.*, **84**, 184439 (2011).
195. Aggregation of two different coordination polymers by reacting zinc nitrate and cadmium chloride with N,N'-ethylenebisacetamide.  
M.-G. Alexandru, I. Jitaru, A. M. Madalan, M. Andruh, *J. Coord. Chem.*, **64**, 3333 (2011).
194. Chromium(III) complexes with 2-(2'-pyridyl)imidazole: synthesis, crystal structure and magnetic properties.  
O. Schott, J. Ferrando-Soria, A. Bentama, S.-E. Stiriba, J. Pasán, C. Ruiz-Pérez, M. Andruh, F. Lloret, M. Julve, *Inorg. Chim. Acta*, **376**, 358 (2011).
193. Mononuclear Fe(III) and tetranuclear [Fe(III)Gd(III)]<sub>2</sub> complexes with a Schiff-base ligand derived from the *o*-vanillin: Synthesis, crystal structures and magnetic properties.  
M. Sarwar, A. M. Madalan, F. Lloret, M. Julve, M. Andruh, *Polyhedron*, **30**, 2414

- (2011).
192. Preparation, crystal structures, and magnetic features for a series of dinuclear  $[\text{Ni}^{\text{II}}\text{Ln}^{\text{III}}]$  Schiff-base complexes: Evidence for slow relaxation of the magnetization for the  $\text{Dy}^{\text{III}}$  derivative.  
T. D. Pasatoiu, J.-P. Sutter, A. M. Madalan, F. Z. C. Fellah, C. Duhayon, M. Andruh, *Inorg. Chem.*, **50**, 5890 (2011).
  191. Study of the luminescent and magnetic properties of a series of heterodinuclear  $[\text{Zn}^{\text{II}}\text{Ln}^{\text{III}}]$  complexes.  
T. D. Pasatoiu, C. Tiseanu, A. M. Madalan, B. Jurca, C. Duhayon, J.-P. Sutter, M. Andruh, *Inorg. Chem.*, **50**, 5879 (2011).
  190. Homobinuclear 4f-4f complexes with 2,6-diformyl-4-methyl-phenol: investigation of the luminescence properties  
R. Gheorghe, C. Tiseanu, M. Andruh, *Rev. Roum. Chim.*, **56**, 439 (2011).
  189. Co-crystallization of coordination compounds through second-coordination sphere interactions.  
A. Cucos, A. Ursu, A. M. Madalan, C. Duhayon, J.-P. Sutter, M. Andruh, *CrystEngComm.*, **11**, 3756 (2011).
  188. New cyanide-bridged  $\text{Mn}^{\text{III}}\text{-M}^{\text{III}}$  heterometallic dinuclear complexes constructed from  $[\text{M}^{\text{III}}(\text{AA})(\text{CN})_4]^-$  building blocks ( $\text{M} = \text{Cr}$  and  $\text{Fe}$ ): synthesis, crystal structures and magnetic properties.  
S. Nastase, C. Maxim, M. Andruh, J. Cano, C. Ruiz-Pérez, J. Faus, F. Lloret, M. Julve *Dalton Trans.*, **40**, 4898 (2011).
  187. New  $d^{10}$  heterometallic coordination polymers based on compartmental Schiff-base ligands. Synthesis, structure and luminescence.  
G. Marinescu, A. M. Madalan, C. Tiseanu, M. Andruh, *Polyhedron*, **30**, 1070 (2011).
  186. Compartmental Schiff-base ligands – a rich library of tectons in designing magnetic and luminescent materials.  
M. Andruh, *Chem. Commun.*, **47**, 3025 (2011) (**Feature Article**).
  185. A new cyanido-bridged  $[\{\text{Cu}^{\text{II}}_2\text{L}\}_2(\mu\text{-CN})_2\text{Mo}^{\text{IV}}(\text{CN})_6]$  pentanuclear complex ( $\text{L}^{2-} =$  bicompartamental macrocyclic ligand): Synthesis, spectral and structural characterization.  
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