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Education

- University of Bucharest, Faculty of Chemistry, Ph.D. (2000 – 2004);
- “Fundeni” Clinical Institute, Bucharest – Resident Physician (2000 – 2004);
- University of Bucharest, Faculty of Chemistry, Inorganic Chemistry Department – B.Sc. Chemistry (1996 – 2000);
- „Carol Davila” Medicine and Pharmacy University, Bucharest, General Medicine Faculty – Medical-Doctor (1992 – 1998).

Research Activities

- 01.10.2013 – to date – associate professor at the *University of Bucharest, Faculty of Chemistry, Inorganic Chemistry Department*. Research topics: fluorescent materials for biomedical applications, metallo-supramolecular chemistry, crystal engineering.
- 01.03.2008 – 30.09.2013 – assistant professor at the *University of Bucharest, Faculty of Chemistry, Inorganic Chemistry Department*.
- 01.03.2006 – 29.02.2008 – postdoc research stage (*Marie Curie Intraeuropean Fellowship – contract 023627: “Self-Assembly of Bio-Nanochips”*), at the *Institut de Science et d'Ingénierie Supramoléculaires, Strasbourg - ISIS* in **Prof. Jean-Marie Lehn**'s group. Research topic: the design, synthesis and investigation of chemical and physical properties of [2×2] grid-type complexes bearing biological residues.
- 01.04.2005 – 28.02.2006 – postdoc research stage at the *Université d'Angers, Laboratoire Chimie, Ingénierie Moléculaire et Matériaux d'Angers (CIMMA)* in **Dr. Narcis Avarvari**'s group - Electrosynthesis of conductive materials containing chiral TTF derivatives as organic cation-radicals.
- 15.04. – 15.09.2001 (fellowship from *Alexander von Humboldt Foundation*) and 18.04. – 31.12.2002 – research stages at the *Institut für Anorganische Chemie der Universität Göttingen* in **Prof. Herbert W. Roessky**'s group. Research topic: Synthesis and characterization of heterospin systems, coordination compounds containing different types of spin carriers: organic radicals (2p) and different paramagnetic metal ions (3d, 4f).
- 01.11.1999 – 18.06.2004 – Ph.D. thesis (entitled “*Mononuclear copper(II) complexes – precursors for supramolecular polymetallic systems*”) at the *Inorganic Chemistry Laboratory, Faculty of Chemistry, University of Bucharest* under **Prof. Marius Andruh**'s coordination.

Publications: 124 papers (H-index: 34) and a short book chapter

- 5 invited talks, 4 poster presentations, 6 oral communications to international conferences;
- member of the Romanian Chemical Society;
- Coordinator of Exploratory Research Grant *PN-III-P4-ID-PCE-2016-0442* (financed by the Romanian National Research Council, 2017-2019);
- Coordinator of Young Research Team Grant *PN-II-RU-TE-2011-3-0252* (financed by the Romanian National Research Council, 2011-2014);

- Home mentor in a joint project Switzerland-Romania (Sciex-NMS project no. 13209);
- Beneficiary of *Marie Curie Intraeuropen Fellowship* – contract 023627 and *Marie Curie European Reintegration Grant* – contract 224845 (financed by the European Commission);
- Member in the research teams in over 20 research grants.

A w a r d s

- 2008 – *The Prize for Chemistry of the Romanian National Science and Art Foundation*;
- 2007 – „*Gheorghe Spacu*” *Prize of the Romanian Academy*;
- 1992 – *Bronze Medal – International Chemistry Olympiad - Pittsburgh, USA*;

Papers

1. "A Synthetic Approach for Oxadiazole-Decorated Azobenzene Photoswitches", A. F. Dobre, A. Hanganu, I. Nicolau, C. C. Popescu, A. Paun, **A. M. Mădălan**, C. Tablet, A. G. Mirea, M. Matache, *ChemPlusChem*, **2023**, e202300504.
2. "Synthesis, Crystal Structure, and Optical Properties of Mononuclear Eu(III) and Tb(III) Complexes Containing a Chalcone Ligand", V. L. Virgil, A. Hanganu, **A. M. Mădălan**, *Crystals*, **2023**, *13*, 1406.
3. "Homo- and heterometallic complexes of Zn(II), {Zn(II)Au(I)}, and {Zn(II)Ag(I)} with pentadentate Schiff base ligands as promising anticancer agents", T. Zhivkova, D. C. Culita, A. Abudalleh, L. Dyakova, T. Mocanu, **A. M. Madalan**, M. Georgieva, G. Miloshev, A. Hanganu, G. Marinescu, R. Alexandrova, *Dalton Trans.*, **2023**, *52*, 12282-12295.
4. "Novel Derivatives of Nitrobenzofurazan with Chromogenic and Fluorogenic Properties", A. Bujor, A. Hanganu, R. Baratoiu, E. N. Hristea, M. Tudose, V. Tecuceanu, **A. M. Madalan**, P. Ionita, *Molecules*, **2023**, *28*, 6146.
5. "Luminescent La³⁺, Eu³⁺ and Tb³⁺ mononuclear complexes with a Schiff base tripodal ligand derived from 9-anthracenecarboxaldehyde", A. D. Popa, M. Răducă, **A. M. Mădălan**, *Polyhedron*, **2023**, *239*, 116441.
6. "Biological Evaluation and Structural Analysis of Some Aminodiphenylamine Derivatives", A. Bujor, A. Hanganu, V. Tecuceanu, **A. M. Madalan**, M. Tudose, L. Marutescu, M. Popa, C. M. Chifiriuc, I. Zarafu, P. Ionita, *Antioxidants*, **2023**, *12*, 713.
7. "Shifting emission of oxadiazoles via inter- or intramolecular hydrogen bonding", C. C. Anghel, A. G. Mirea, C. C. Popescu, **A. M. Mădălan**, A. Hanganu, A. Bende, N. D. Hădade, M. Matache, M. Andruh, *Dyes Pigm.*, **2023**, *210*, 111023.
8. "Zwitterion or diradicaloid? The case of diazenium betaines derived from DPPH", A. F. Dobre, **A. M. Madalan**, S. Ionescu, A. Hanganu, C. Lete, C. C. Popescu, A. Paun, M. Matache, P. Ionita, *J. Mol. Struct.*, **2023**, *1275*, 134703.
9. "Synthesis, Crystal Structure, and Optical Properties of a Trinuclear Zinc(II) Complex with Rhodamine B", M. Răducă, S. Ionescu, **A. M. Mădălan**, *Crystals*, **2022**, *12*, 1813.
10. "Exploring Arylazo-3,5-Bis(trifluoromethyl)pyrazole Switches", B. C. Enache, A. Hanganu, C. Tablet, C. C. Anghel, C. C. Popescu, A. Paun, N. D. Hădade, **A. M. Mădălan**, M. Matache, *ACS Omega*, **2022**, *7*, 39122–39135.
11. "A new seven-coordinated complex of Zn(II) with nicotinamide and acetate as mixed ligand: synthesis and characterization", L. Pricop, **A. M. Mădălan**, A. Hanganu, *Rev. Roum. Chim.*, **2022**, *67(6-7)*, 365-371.
12. "A New Nitronyl-Nitroxide Ligand for Designing Binuclear Ln^{III} Complexes: Syntheses, Crystal Structures, Magnetic and EPR Studies", M. Răducă, D. O. T. A. Martins, C. A. Spinu, M. Hillebrand, F. Tuna, G. Ionita, **A. M. Mădălan**, C. Lecourt, J.-P. Sutter, M. Andruh, *Eur. J. Inorg. Chem.*, **2022**, e202200128.
13. "Silver(I) complexes with a luminescent tripodal Schiff base ligand derived from fluorene-2-carboxaldehyde", A. D. Popa, **A. M. Mădălan**, *Polyhedron*, **2022**, *220*, 115849.
14. "Trinuclear cyanido-bridged M^{II}-W^V complexes (M = Mn, Co): crystal structures and magnetic properties", D. Dragancea, G. Novitchi, **A. M. Madalan**, M.-G. Alexandru, S. Shova M. Andruh, *Polyhedron*, **2022**, *220*, 115839.
15. "Two are better than one - Synthesis of novel blue and green emissive hydroxy-oxadiazoles", C. C. Anghel, C. Bădescu, A. G. Mirea, A. Păun, N. D. Hădade, **A. M. Mădălan**, M. Matache, C. C. Popescu, *Dyes Pigm.*, **2022**, *197*, 109927.
16. "Atmospheric Carbon Dioxide Capture as Carbonate into a Luminescent Trinuclear Cd(II) Complex with Tris(2-aminoethyl)amine Tripodal Ligand", **A. M. Mădălan**, *Crystals*, **2021**, *11*, 1480.
17. "Cocrystals versus Salts of Fluorescein", M. Răducă, **A. M. Mădălan**, *Crystals*, **2021**, *11*, 1217.

18. "New Cyanido-Bridged Heterometallic 3d-4f 1D Coordination Polymers: Synthesis, Crystal Structures and Magnetic Properties", D. Dragancea, G. Novitchi, **A. M. Mădălan**, M. Andruh, *Magnetochemistry*, **2021**, 7, 57.
19. "Thermal and Emission Properties of a Series of Lanthanides Complexes with N-Biphenyl-Alkylated-4-Pyridone Ligands: Crystal Structure of a Terbium Complex with N-Benzyl-4-Pyridone", F. L. Chiriac, M. Iliș, **A. Madalan**, D. Manaila-Maximean, M. Secu, V. Cîrcu, *Molecules*, **2021**, 26, 2017.
20. "Zinc(II) mononuclear complexes with Schiff base derivatives of 2-aminofluorene. Synthesis, structural characterization, and optical properties", M. Strinoiu, M. Răducă, **A. M. Mădălan**, *J. Coord. Chem.*, **2020**, 73, 2786-2800.
21. "Structure and magnetic properties of an original {Cu^{II}Mn^{II}W^V} heterotrimetallic coordination polymer", M.-G. Alexandru, D. Visinescu, A. M. Madalan, R. Clérac, M. Andruh, *Eur. J. Inorg. Chem.*, **2020**, 3111-3114.
22. "Mononuclear lanthanide(III) complexes with tripodal ligands as ammonium cation receptors", A. Costache, **A. M. Mădălan**, *Rev. Roum. Chim.*, **2020**, 65(7-8), 761-765.
23. "Synthesis, crystal structures and solid-state optical properties of two mannich derivatives of 2',7'-dichlorofluorescein", M. Răducă, **A. M. Mădălan**, *Rev. Roum. Chim.*, **2020**, 65(6), 617-622.
24. "Synthesis of Fluorescent Dansyl Derivatives of Methoxyamine and Diphenylhydrazine as Free Radical Precursors", B. Patrascu, S. Mocanu, A. Coman, **A. M. Madalan**, C. Popescu, A. Paun, M. Matache, P. Ionita, *Int. J. Mol. Sci.*, **2020**, 21, 3559; doi:10.3390/ijms21103559.
25. "Examination of structure-activity relationship of new N-acylhydrazones", A. G. Coman, A. Paun, C. C. Popescu, N. D. Hadade, A. Hanganu, **A. M. Mădălan**, M. Matache, *Rev. Roum. Chim.*, **2020**, 65, 109-114.
26. "Synthesis and structural analysis of some nitroderivatives of a dopamine analog", **A. M. Mădălan**, M. Matache, P. Ionita, *Rev. Roum. Chim.*, **2020**, 65, 103-108.
27. "Synthesis and spectral comparison of electronic and molecular properties of some hydrazines and hydrazyl free radicals", B. Patrascu, C. Lete, C. Popescu, M. Matache, A. Paun, **A. Madalan**, P. Ionita, *Arkivoc*, **2020**, part vi, 1-10, doi: 10.24820/ark.5550190.p011.119.
28. "Synthesis, structure and luminescent properties of a mononuclear zinc(II) complex with a bicompartamental ligand", M. Răducă, **A. M. Mădălan**, *Studia UBB Chemia*, **2019**, LXIV (3), 193-202.
29. "Heterometallic 3d-4d coordination polymers assembled from trans-[Ru^{III}(L)(CN)₂]⁻ tectons and 3d cations", G. Marinescu, **A. M. Madalan**, C. Maxim, S. Shova, R. Clérac, M. Andruh, *Dalton Trans.*, **2019**, 48, 15455-15464.
30. "Coordination polymers and a dinuclear complex constructed from zinc(II) ions and fluorescein: iodine adsorption and optical properties", M. Răducă, C.D. Ene, S. Ionescu, M. Florea, **A. M. Mădălan**, *J. Coord. Chem.*, **2019**, 72:8, 1222-1237.
31. "New mixed ligand complexes resulting from the reaction of β-diketonato derivatives with a Mannich base", M. I. Mocanu, A. A. Patrascu, **A. M. Madalan**, M. Andruh, *Rev. Roum. Chim.*, **2018**, 63(5-6), 545-549.
32. "Organic co-crystals of 1,3-bis(4-pyridyl)azulene with a series of hydrogen-bond donors", A. E. Ion, A. Dogaru, S. Shova, **A. M. Madalan**, O. Akintola, S. Ionescu, M. Voicescu, S. Nica, A. Buchholz, W. Plass, M. Anduh, *CrystEngComm*, **2018**, 20, 4463-4484.
33. "Synthesis and structural characterization of some novel methoxyamino derivatives with acid-base and redox behavior", M. Bem, R. Baratoiu, C. Radutiu, C. Lete, S. Mocanu, G. Ionita, S. Lupu, M. T. Caproiu, **A. M. Madalan**, B. Patrascu, I. Zarafu, P. Ionita, *J. Mol. Struc.*, **2018**, 1173, 291-299.
34. "Conformation-induced light emission switching of N-acylhydrazone systems", A. G. Coman, A. Paun, C. C. Popescu, N. D. Hădade, C. C. Anghel, **A. M. Mădălan**, P. Ioniță, M. Matache, *New J. Chem.*, **2018**, 42, 14111-14119.
35. "New complexes of Ni(II) and Co(III) with a Schiff-base ligand derived from o-vanillin. Crystal structure, magnetic and catalytic properties of a dissymmetric binuclear nickel(II) complex", V. A.

- Neacșu, C. Maxim, **A. M. Mădălan**, M. Hillebrand, M. C. González-Arellano, S. Soriano, E. Rentschler, M. Andruh, *Polyhedron*, **2018**, *150*, 77-82.
36. "Supramolecular rectangles and ladders constructed from Ni(II), Cu(II) and Zn(II) mononuclear complexes with bicompartamental ligands and 4-aminopyridine as tectons", **A. M. Madalan**, C. D. Ene, *Inorg. Chim. Acta*, **2018**, *475*, 184-192.
37. "Heterometallic Co^{II}-Co^{III}-M^{II} alkoxido-bridged heptanuclear motifs (M = Cu, Zn). Syntheses, crystal structures and magnetic properties", E. Martin, V. Tudor, **A. M. Madalan**, C. Maxim, F. Tuna, F. Lloret, M. Julve, M. Andruh, *Inorg. Chim. Acta*, **2018**, *475*, 98-104.
38. "Chimeric design of heterospin 2p-3d, 2p-4f, and 2p-3d-4f complexes using a novel family of paramagnetic dissymmetric compartmental ligands", A. A. Patrascu, S. Calancea, M. Briganti, S. Soriano, **A. M. Madalan**, R. A. Allão Cassaro, A. Caneschi, F. Totti, M. G. F. Vaz, Marius Andruh, *Chem. Commun.*, **2017**, *53*, 6504-6507.
39. "A comparison between nitroxide and hydrazyl free radicals in selective alcohols oxidation", A. J. Shakir, **A. M. Madalan**, G. Ionita, S. Lupu, C. Lete, P. Ionita, *Chem. Phys.*, **2017**, *490*, 7-11.
40. "A novel 1-D coordination polymer constructed from disilver-1,3,4-oxadiazole nodes and perchlorato bridges", C. Anghel, M. Matache, C. C. Paraschivescu, **A. M. Madalan**, M. Andruh, *Inorg. Chem. Comm.*, **2017**, *76*, 22-25.
41. "Synthesis, Crystal Structures, Magnetic Properties, and Theoretical Investigation of a New Series of Ni^{II}-Ln^{III}-W^V Heterotrimetallics: Understanding the SMM Behavior of Mixed Polynuclear Complexes", V. Vieru, T. D. Pasatoiu, L. Ungur, E. Sutura, **A. M. Madalan**, C. Duhayon, J.-P. Sutter, M. Andruh, L. F. Chibotaru, *Inorg. Chem.*, **2016**, *55*, 12158-12171.
42. "Slow relaxation of magnetization in an Isostructural series of Zinc-lanthanide complexes: an integrated EPR and AC susceptibility study", A. Amjad, **A. M. Madalan**, M. Andruh, A. Caneschi, L. Sorace, *Chem. Eur. J.*, **2016**, *22*, 12849-12858.
43. "Synthesis and properties of fluorescent 4'-azulenyl-functionalized 2,2':6',2"-terpyridines", A. E. Ion, L. Cristian, M. Voicescu, M. Bangesh, **A. M. Madalan**, D. Bala, C. Mihailciuc, S. Nica, *Beilstein J. Org. Chem.*, **2016**, *12*, 1812-1825.
44. "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. A. Cassaro, S. Soriano, **A. M. Madalan**, C. Maxim, M. A. Novak, M. G. F. Vaz, M. Andruh, *CrystEngComm*, **2016**, *18*, 4779-4786.
45. "A new family of [Cu^{II}Ln^{III}M^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.*, **2016**, *45*, 7642-7649.
46. "Synthesis of novel TEMPO stable free (poly)radicals derivatives and their host-guest interaction with cucurbit[6]uril", G. Ionita, **A. M. Madalan**, A. M. Ariciu, A. Medvedovici, P. Ionita, *New J. Chem.*, **2016**, *40*, 503-511.
47. "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.*, **2015**, *44*, 16713-16727.
48. "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**, V. Sbarcea, G. Marinescu, M. Andruh, *Rev. Roum. Chim.*, **2015**, *60*, 1005-1013.
49. "Atmospheric CO₂ capture by a triphenyltin -1,2-bis(4-pyridyl)ethane system with formation of a rare trinuclear carbonato-centered core", A. L. Ghionoiu, D. L. Popescu, C. Maxim, **A. M. Madalan**, I. Haiduc, M. Andruh, *Inorg. Chem. Comm.*, **2015**, *58*, 71-73.
50. "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.*, **2015**, *54*, 16-18.

51. "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.*, **2015**, *15*, 799-811.
52. "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.*, **2015**, *68*, 479-490.
53. "Polynuclear zinc(II) complexes with adamantane-dicarboxylato-bridges. Crystal structure and luminescence properties", G. Marinescu, **A. M. Madalan**, M. Andruh, *Rev. Roum. Chim.*, **2014**, *59*, 941-948.
54. "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.*, **2014**, *43*, 9136-9142.
55. "Ferromagnetic Coupling in Copper(II) $[2 \times 2]$ Grid-like Complexes", **A. M. Madalan**, X.-Y. Cao, G. Rogez, J.-M. Lehn, *Inorg. Chem.*, **2014**, *53*, 4275-4277.
56. "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*, **2014**, *16*, 319-327.
57. "Charge-sensitive vibrational modes in the (EDT-TTF-OX) $_2$ AsF $_6$ chiral molecular conductors", I. Olejniczak, A. Frackowiak, J. Matysiak, **A. Madalan**, F. Pop, N. Avarvari, *Cent. Eur. J. Phys.*, **2014**, *12*, 215-220.
58. "Tuning the Planarity of $[2 \times 2]$ Grids", A. R. Stefankiewicz, J. Harrowfield, **A. M. Madalan**, J.-M. Lehn, *CrystEngComm*, **2013**, *15*, 9128-9134.
59. "A new exo-tridentate tris-pyridine ligand derived from 3-oxa-1,5-diazabicyclo[3.3.1]nonane and its dinuclear Cu(II) complex. Synthesis and crystal structures.", **A. M. Madalan**, *Rev. Roum. Chim.*, **2013**, *58*, 829-833.
60. "Synthesis and crystal structures of a tripodal ligand derived from 4,4'-dihydroxybiphenyl and its gadolinium(III) mononuclear complex", E. Vulpe, **A. M. Madalan**, *Rev. Roum. Chim.*, **2013**, *58*, 823-828.
61. "Supramolecular homometallic Cr(III) systems resulting from second coordination sphere interactions", V. Iucha, R. Gheorghe, **A. M. Madalan**, M. Andruh, *Rev. Roum. Chim.*, **2013**, *58*, 255-263.
62. "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.*, **2013**, *37*, 2280-2292.
63. "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. Mol. Struct.*, **2013**, *1046*, 164-170.
64. "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*, **2013**, *15*, 294-301.
65. "Self-assembly of $[\text{Cu}^{\text{II}}\text{Tb}^{\text{III}}]^{3+}$ and $[\text{W}(\text{CN})_8]^{3-}$ 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.*, **2012**, *41*, 13578-13581.
66. "Self-ordering of metallogrid complexes via directed hydrogen-bonding", A. R. Stefankiewicz, G. Rogez, J. Harrowfield, A.N. Sobolev, **A. Madalan**, J. Huuskonen, K. Rissanen, J.-M. Lehn, *Dalton Trans.*, **2012**, *41*, 13848-13855.

67. "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.*, **2012**, *51*, 7954-7956.
68. "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.*, **2012**, *14*, 11448-11456.
69. "Identification of $[CuCl(acac)(tmed)]$, a copper(II) complex with mixed ligands, as a modulator of Cu,Zn-superoxide dismutase (Sod1p) activity in yeast", I. Dumitru, C. D. Ene, A. M. Ofiteru, C. Paraschivescu, **A. M. Madalan**, I. Baciuc, I. C. Farcasanu, *J. Biol. Inorg. Chem.*, **2012**, *17*, 961-974.
70. " $[W(bipy)(CN)_6]^-$: A Suitable Metalloligand in the Design of Heterotrimetallic Complexes. The First $Cu^{II}Ln^{III}W^V$ Trinuclear Complexes", M. G. Alexandru, D. Visinescu, **A. M. Madalan**, F. Lloret, M. Julve, M. Andruh, *Inorg. Chem.*, **2012**, *51*, 4906-4908.
71. "Dodecanuclear $[Cu^{II}_6Gd^{III}_6]$ Nanoclusters as Magnetic Refrigerants", A. S. Dinca, A. Ghirri, **A. M. Madalan**, M. Affronte, M. Andruh, *Inorg. Chem.*, **2012**, *51*, 3935-3937.
72. "Cyano-bridged Heterometallic Oligonuclear Complexes and Coordination Polymers Constructed using Tridentate Schiff-Base Ligands. Synthesis, Crystal Structures, Magnetic and Luminescence Properties", C. Maxim, F. Tuna, **A. M. Madalan**, N. Avarvari, M. Andruh, *Cryst. Growth Des.*, **2012**, *12*, 1654-1665.
73. "Tetranuclear Zn(II) complexes with compartmental and dicyanamido ligands: Synthesis, structure and luminescent properties", G. Marinescu, **A. M. Madalan**, S. Shova, M. Andruh, *J. Coord. Chem.*, **2012**, *65*, 1539-1547.
74. "Pendent Nucleophiles on Coordination Complexes - Hydrogen-Bond Donor and Acceptor Ability", J. K. Clegg, J. M. Harrowfield, M. Kim, Y. Kim, H. Kristopo, Y. H. Lee, **A. Madalan**, P. Thuéry, *Aust. J. Chem.*, **2012**, *65*, 734-749.
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