

LIST OF PUBLICATIONS

Conf. Dr. VIOREL CÎRCU

Books and book chapters:

1. Viorel Cîrcu, Monica Ilis, Cristale lichide. Metalomezogeni. Aplicatii si caracterizare, Editura Printech, Bucuresti, 2015 ISBN 978-606-23-0516-1.
2. X-Ray Structural Characterization of Cyclometalated Luminescent Pt (II) Complexes, Marin Micutz, Viorel Cîrcu, in "Current Trends in X-Ray Crystallography", Ed. A. Chandrasekaran, 2011, pp. 255 – 282, Intech Publisher, ISBN 978-953-307-754-3.
3. Ionic Liquid Crystals Based on Pyridinium Salts, Viorel Cîrcu in "Ionic Liquids", Ed. Scott Handy, 2017, pp. 285 – 311, IntechOpen, DOI: 10.5772/65757, ISBN 978-953-51-2901-1.

List of ISI publications:

1. Sinteza si Caracterizarea Combinatiilor Complexe ale Cu(II), Ni(II), Pt(II), Pd(II), Cd(II) si Hg(II) cu N-benzoil-N'-2,3-dimetilfeniltiouree, D. Negoiu, V. Cîrcu, T. Rosu, N. Badicu, *Rev. Chim.(Bucharest)*, **1999**, 50, 88. IF=1.412
2. Sinteza, caracterizarea si comportamentul termic al combinatiilor complexe ale Co(II) si Ni(II) cu 2,2'-diamino-4,4'-ditiazolul si derivatul diacetilat al acestuia, D. Negoiu, V. Cîrcu, A. Nicolae, S. Serban, O. Maior, *Rev.Chim.(Bucharest)*, **1999**, 50, 513. IF=1.412
3. Synthesis, Characterization of Complexes of N-Benzoyl-N'-2-nitro-4-methoxy phenylthiourea with Cu, Ni, Pt, Pd, Cd and Hg, **V. Cîrcu***, M. Negoiu, T. Rosu, S. Serban, *J. Thermal Anal. Calorim.*, **2000**, 61, 935. IF=2.209
4. Synthesis and EPR Characterization of a Series of Cu(II) Complexes with 2,2'-Diamino-4,4'-bithiazole and 2,2'-Bisacetamido-4,4'-bithiazole, **V. Cîrcu***, M. Negoiu, T. Rosu, L. Stoicescu, R.Georgescu, *Synth. React. Inorg.-Met. Org. Chem.*, **2000**, 30, 1653. IF=0.715
5. Combinatii complexe ale Ru(III) cu liganzi micsti, M. Negoiu, T. Rosu, L. Stoicescu, V.Cîrcu, *Rev. Chim. (Bucharest)*, **2000**, 51, 492. IF=1.412
6. The Coordinating Behaviour of N,N'-Bis(1-ethoxycarbonyl)ethanedithioamide towards Pd(II), Pt(II) and Cu(II), L. Stoicescu, M. Negoiu, V. Cîrcu, R. Georgescu, A. Saidel, *Synth. React. Inorg.-Met. Org. Chem.*, **2001**, 31, 599. IF=0,715
7. Tris(triphenylphosphine)rhodium Cyano and Triphenylcyanoborate Complexes. Structures and a DFT study, M. A. Fernandes, V. Cîrcu, R. Weber, T. Varnali, L. Carlton, *J. Chem. Crystallogr.*, **2002**, 32, 573. IF=0.699

- 8.** Reactivity of a Rhodium(I) Complex Towards Oxygen Enhanced by a Cyano Ligand. Structure of $[\text{Rh}(\text{CN})(\text{O}_2)(\text{PPh}_3)_2(\text{XNC})]$ ($\text{XNC} = \text{xylyl isocyanide}$), V. Cîrcu, M. Fernandes, L. Carlton, *Polyhedron*, **2002**, *21*, 1775. IF=2.067
- 9.** Reaction of bis(phosphine)hydrotris(3,5-dimethylpyrazolyl)borate rhodium(I) complexes with phenylacetylene, p-nitrobenzaldehyde and triphenyltin hydride. Structures of $[\text{Rh}(\text{Tp}^*)(\text{PPh}_3)_2]$, $[\text{Rh}(\text{Tp}^*)(\text{H})(\text{C}_2\text{Ph})\{\text{P}(\text{C}_6\text{H}_4\text{F})_3\}]$, $[\text{Rh}(\text{Tp}^*)(\text{H})(\text{CO}-\text{C}_6\text{H}_4-\text{NO}_2)(\text{PPh}_3)]$ and $[\text{Rh}(\text{Tp}^*)(\text{H})(\text{SnPh}_3)(\text{PPh}_3)]$, V. Cîrcu, M.A. Fernandes, L. Carlton, *Inorg. Chem.*, **2002**, *41*, 3859. IF=4.700
- 10.** Reactions of $[\text{Rh}(\text{Tp}^*)(\text{PPh}_3)_2]$ ($\text{Tp}^* = \text{hydrotris}(3,5\text{-dimethylpyrazolyl})\text{borate}$) involving fragmentation or loss of Tp^* . Structures of $[\text{Rh}(\text{H})(\text{Cl})_2(\text{PPh}_3)(\text{pz}^*)]$, $[\text{Rh}_2(\mu\text{-SC}_6\text{F}_5)_2(\text{SC}_6\text{F}_5)(\text{H})(\text{PPh}_3)(\text{pz}^*)]$ and $[\text{Rh}_2(\mu\text{-Hg})(\text{Cl})_4(\text{PPh}_3)_4]$, V. Cîrcu, M.A. Fernandes, L. Carlton, *Polyhedron*, **2003**, *22*, 3293. IF=2.067
- 11.** Possible Rod-Disc Transition in Ortho-metallated Imine Complexes of Palladium(II). Crystal and Molecular Structure of Three Palladium Complexes, L. Omnès, V. Cîrcu, P. T. Hutchins, S. J. Coles, M. B. Hursthouse, D. W. Bruce, *Liq. Cryst.*, **2005**, *32*, 1437. IF=2.636
- 12.** Orthometallated Palladium(II) Imine Complexes as Candidate Materials for the Biaxial Nematic Phase. Crystal and Molecular Structure of Three Palladium Imine Complexes - V. Cîrcu, T. J. K. Gibbs, L. Omnès, P. N. Horton, M. B. Hursthouse, D. W. Bruce, *J. Mater. Chem.*, **2006**, *16*, 4316. IF=6.626
- 13.** Combinatii complexe cu derivati de tip N-benzoiltiouree ale Pt(II) si Pd(II), A. Deleanu, M. Ilis, T. Rosu, **V. Cîrcu***, *Rev. Chimie (Bucharest)*, **2006**, *57*, 1216. IF=1.412
- 14.** Mixed-ligand complexes. Ternary copper(II) complexes with aminoacids, T. Rosu, M. Negoiu, V. Circu, *Rev. Roum. Chim.*, **2006**, *51*, 391. IF=0.370
- 15.** Mesomorphism of ortho-metallated imine complexes of the β -diketonatoplatinum(II) fragment. Crystal and molecular structure of three platinum imine complexes, V. Cîrcu, P.N. Horton, M.B. Hursthouse, D.W. Bruce, *Liq. Cryst.*, **2007**, *34*, 1463. IF=2.636
- 16.** Sinteza si caracterizarea combinatiilor complexe ale Cu(II) cu tiosemicarbazone din seria 8-R-triciclo/7.3.1.02,7/tridecan-2-ol-13-onei, T. Rosu, V. Circu, S. Pasculescu, A. Nicolae, *Rev. Chimie (Bucharest)*, **2007**, *58*, 74. IF=1.412
- 17.** Spectral studies on Pt(II) and Pd(II) complexes with N-benzoyl-N'-aryl thiourea derivatives, **V. Cîrcu***, T. Rosu, S. Udrea, F. Dumitrascu, *Rev. Chimie (Bucharest)*, **2008**, *59*, 934. IF=1.412
- 18.** New liquid crystalline materials based on ortho-metallated palladium(II) and platinum(II) complexes with S,O-donor co-ligands, **V. Cîrcu***, M. Ilis, F. Dumitrascu, *J. Optoelectron. Adv. Mater.*, **2008**, *10*, 3454. IF=0.390
- 19.** Synthesis, characterisation and thermal behaviour of ortho-metallated Pd(II) complexes containing N-benzoylthiourea derivatives, A.C. Tenchiu, M. Ilis, F. Dumitrascu, A.C. Whitwood, **V. Cîrcu***, *Polyhedron*, **2008**, *27*, 3537. IF=2.067
- 20.** Mesomorphic behaviour and TSDC measurements of ortho-metallated palladium(II) and platinum(II) complexes with S,O-donor co-ligands, **V. Cîrcu***, D. Manaila-Maximean, C. Rosu, M. Ilis, F. Dumitrascu, *Liq. Cryst.*, **2009**, *36*, 123. IF=2.636

- 21.** Selective functionalisation of Re₆ cluster anionic units: from hexa-hydroxo [Re₆Q₈(OH)₆]⁴⁻ (Q = S, Se) to neutral trans-[Re₆Q₈L₄L'₂] hybrid building blocks - F. Dorson, Y. Molard, S. Cordier, B. Fabre, O. Efremova, D. Rondeau, Y. Mironov, V. Cîrcu, C. Perrin, *Dalton Trans.*, **2009**, 8, 1297. IF=4.099
- 22.** Luminescent cyclometallated platinum(II) complexes with N-benzoyl thiourea as ancillary ligands, V. Cîrcu*, M. Ilie, M. Ilis, F. Dumitrascu, I. Neagoe, S. Pasculescu, *Polyhedron*, **2009**, 28, 3739. IF=2.067
- 23.** Synthesis, mesomorphism and luminescence properties of palladium(II) and platinum(II) complexes with dimeric Schiff base liquid crystals, A.S. Mocanu M. Ilis, F. Dumitrascu, M. Ilie, V. Cîrcu*, *Inorg. Chim. Acta*, **2010**, 363, 729. IF=2.264
- 24.** Smectic phases of liquid crystals based on dinuclear palladium(II) complexes with carboxylato bridge, V. Cîrcu*, C. M. Simonescu, *Cryst. Res. Technol.*, **2010**, 45, 512. IF=1.122
- 25.** Clustomesogens : liquid crystal materials containing transition-metal clusters, Y. Molard, F. Dorson, V. Cîrcu, T. Roisnel, F. Artzner, S. Cordier, *Angew. Chem. Int. Ed.*, **2010**, 49, 3351. IF=12.102
- 26.** Mesomorphic behaviour of N-benzoyl-N'-aryl thioureas liquid crystalline compounds, M. Ilis, M. Bucos, F. Dumitrascu, V. Cîrcu*, *J. Mol. Struct.*, **2011**, 987, 1. IF=2.011
- 27.** Liquid crystal properties resulting from synergetic effects between non-mesogenic organic molecules and a one nanometre sized octahedral transition metal cluster, A. S. Mocanu, M. Amela-Cortes, Y. Molard, V. Cîrcu*, S. Cordier, *Chem. Commun.*, **2011**, 47, 2056. IF=6.290
- 28.** Dinuclear ortho-Metallated Palladium(II) Complexes with Acetato and Chloro Bridges as Liquid Crystals, V. Cîrcu*, F. Dumitrascu, *Mol. Cryst. Liq. Cryst.*, **2011**, 534, 41. IF=0.633
- 29.** Differential negative resistance in the current-voltage characteristics of a new palladium(II) metallomesogen, C. Roşu, D. Manaila-Maximean, V. Cîrcu, Y. Molard, T. Roisnel, *Liq. Cryst.*, **2011**, 38, 757. IF=2.636
- 30.** Ionically Self Assembled Clustomesogen with Switchable Magnetic / Luminescence Properties containing [Re₆Se₈(CN)₆]ⁿ⁻ (n = 3, 4) anionic clusters, Y. Molard, A. Ledneva, M. Amela-Cortes, V. Cîrcu, N. G. Naumov, C. Mériadec, F. Artzner, S. Cordier, *Chem. Mater.*, **2011**, 23, 5122. IF=9.890
- 31.** Thermal behaviour and electro-optical properties of a series of liquid crystals based on palladium complexes with mixed ligands, V. Cîrcu*, A. S. Mocanu, C. Roşu, D. Manaila-Maximean, F. Dumitraşcu, *J. Thermal Anal. Calorim.*, **2012**, 107, 877. IF=2.209
- 32.** Thermotropic Luminescent Clustomesogen Showing a Nematic Phase: A Combination of Experimental and Molecular Simulation Studies, M. A. Cortes, F. Dorson, M. Prévôt, A. Ghoufi, B. Fontaine, F. Goujon, R. Gautier, V. Cîrcu, C. Mériadec, F. Artzner, H. Folliot, S. Cordier, Y. Molard, *Chem. Eur. J.*, **2014**, 20, 8561. IF=5.160
- 33.** Luminescent liquid crystalline materials based on palladium (II) imine derivatives containing the 2-phenylpyridine core, M. Micutz, M. Iliş, T. Staicu, F. Dumitraşcu, I. Pasuk, Y. Molard, T. Roisnel, V. Cîrcu*, *Dalton Trans.*, **2014**, 43, 1151. IF=4.099

- 34.** Voltage-Driven Photoluminescence Modulation of Liquid-Crystalline Hybridized ZnO Nanoparticles, C. Neaime, M. Prévôt, M. A. Cortes, V. Cîrcu, F. Grasset, H. Folliot, Y. Molard, *Chem. Eur. J.*, **2014**, *20*, 13770. IF=5.160
- 35.** Enhancement of smectic C mesophase stability by using branched alkyl chains in the auxiliary ligands of luminescent Pt (II) and Pd (II) complexes, M. Iliş, M. Micutz, F. Dumitraşcu, I. Pasuk, Y. Molard, T. Roisnel, **V. Cîrcu***, *Polyhedron*, **2014**, *69*, 31. IF=2.067
- 36.** Liquid crystals based on silver carbene complexes derived from dimeric bis (imidazolium) bromide salts, A. Pană, M. Iliş, M. Micutz, F. Dumitraşcu, I. Pasuk, **V. Cîrcu***, *RSC Advances*, **2014**, *4*, 59491. IF=2.936
- 37.** Effect of counterion on the mesomorphic behavior and optical properties of columnar pyridinium ionic liquid crystals derived from 4-hydroxypyridine, A. Pană, F. L. Badea, M. Iliş, T. Staicu, M. Micutz, I. Pasuk, **V. Cîrcu***, *J. Mol. Struct.*, **2015**, *1083*, 245. IF=2.011
- 38.** A new class of thermotropic lanthanidomesogens: Eu(III) nitrate complexes with mesogenic 4-pyridone ligands, A. Pană, F. L. Chiriac, M. Secu, I. Pasuk, M. Ferbinteanu, M. Micutz, **V. Cîrcu***, *Dalton Trans.*, **2015**, *44*, 14196. IF=4.099
- 39.** Analysis of bimodal thermally-induced denaturation of type I collagen extracted from calfskin, T. Staicu, V. Cîrcu, G. Ionita, C. Ghica, V. T. Popa, M. Micutz, *RSC Adv.*, **2015**, *5*, 38391. IF=2.936
- 40.** From mesomorphic phosphine oxide to clustomesogens containing molybdenum and tungsten octahedral cluster cores, **V. Cîrcu***, Y. Molard, M. Amela-Cortes, A. Bentaleb, P. Barois, V. Dorcet, S. Cordier, *Angew. Chem. Int. Ed.* **2015**, *54*, 10921. IF=12.102
- 41.** Columnar bis(pyridinium) ionic liquid crystals derived from 4-hydroxypyridine: synthesis, mesomorphism and emission properties, A. Pană, M. Iliş, T. Staicu, I. Pasuk, **V. Cîrcu***, *Liq. Cryst.*, **2016**, *43*, 381. IF=2.636
- 42.** Nematic ionic liquid crystals based on pyridinium salts derived from 4-hydroxypyridine, A. Pană, I. Pasuk, M. Micutz, **V. Cîrcu***, *CrystEngComm*, **2016**, *18*, 5066. IF=3.304
- 43.** Synthesis and liquid crystalline properties of novel fluorinated N-benzoyl thiourea compounds. Effect of perfluoroalkyl chains on the thermal behavior and smectic phases stability, M. Iliş, M. Micutz, I. Pasuk, T. Staicu, **V. Cîrcu***, *J. Fluor. Chem.*, **2017**, *204*, 84. IF=1.879
- 44.** Bis-imidazolium salts with alkyl sulfates as counterions: synthesis and liquid crystalline properties, T. A. Ilincă, I. Pasuk, **V. Cîrcu***, *New J. Chem.*, **2017**, *41*, 11113. IF=3.201
- 45.** Luminescent palladium (II) metallomesogens based on cyclometalated Schiff bases and N-benzoyl thiourea derivatives as co-ligands, M. Iliş, M. Micutz, **V. Cîrcu***, *J. Organomet. Chem.*, **2017**, *836*, 81. IF=1.946
- 46.** Cyclometalated palladium (II) metallomesogens with Schiff bases and N-benzoyl thiourea derivatives as co-ligands, M. Iliş, D. Batalu, I. Pasuk, **V. Cîrcu***, *J. Mol. Liq.*, **2017**, *233*, 45. IF=4.513
- 47.** Influence of hydrocarbon moieties of partially fluorinated N-benzoyl thiourea compounds on their gelation properties. A detailed rheological study of complex viscoelastic behavior of decanol/N-benzoyl thiourea mixtures, T. Staicu, M. Iliş, **V. Cîrcu***, M. Micutz, *J. Mol. Liq.*, **2018**, *255*, 297. IF=4.513

- 48.** Dielectric properties of a bisimidazolium salt with dodecyl sulfate anion doped with carbon nanotubes, D. Manaila-Maximean, V. Cîrcu, P. C. Ganea, *Beilstein J. Nanotechnol.*, **2018**, 9, 164. IF=2.968
- 49.** Simple and double pyridinium salts with cyanobiphenyl groups as ionic liquids and ionic liquid crystals: synthesis and investigation of thermal behavior, A. Pană, A. L. Panait, **V. Cîrcu***, *Res. Chem. Intermed.*, **2018**, 44, 2025. IF=1.674
- 50.** Discotic liquid crystals based on Cu(I) complexes with benzoylthiourea derivatives containing a perfluoroalkyl chain, M. Iliș, **V. Cîrcu***, *J. Chem.*, **2018**, Article ID7943763. IF=1.726
- 51.** Novel wide-range columnar and lamellar photoluminescent liquid crystalline lanthanides complexes with mesogenic 4-pyridone derivatives, L. F Chiriac, I. Pasuk, M. Secu, M. Micutz, **V. Cîrcu***, *Chem. Eur. J.*, 2018, DOI: 10.1002/chem.201801781. IF=5.160

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