LISTA DE LUCRĂRI **Dr. SZERB Elisabeta Ildyko**

Articole publicate în jurnale ISI: 47, 1 capitol carte, 2 articole review.

A1. Pucci D., Barberio G., Bellusci A., Crispini A., Ghedini M., **Szerb E. I.**
Supramolecular columnar mesomorphism induced by silver(I) coordination of 2,2'-bipyridine-4,4'-diamides
Mol. Cryst. Liq. Cryst. *441*, 251 – 260, **2005**. **FI = 0.468**

A2. Pucci D., Barberio G., Bellusci A., Crispini A., La Deda M., Ghedini M., **Szerb E. I.**
Induction of columnar mesomorphism in tetracoordinated ionic Silver(I) complexes based on chelate 4,4'-disubstituted 2,2'-bipyridines
Eur. J. Inorg. Chem. 2457 – 2463, **2005**. **FI = 2.514**

A3. Pucci D., Barberio G., Bellusci A., Crispini A., Donnio B., Giorgini L., Ghedini M., La Deda M., **Szerb E. I.**
Silver Coordination Complexes as Room-Temperature Multifunctional Materials
Chem. Eur. J. *12*, 6738 – 6747, **2006**. **FI = 5.015**

A4. Bellusci A., Crispini A., Pucci D., **Szerb E. I.**, Ghedini M.
Structural Variations in Bipyridine Silver(I) Complexes: Role of the Substituents and Counterions ***Cryst. Growth & Des.*** *8*, 3114 – 3122, **2008**. **FI = 4.215**

A5. Pucci D., Bellusci A., Crispini A., Ghedini M., Godbert N., **Szerb E. I.**, Talarico A. M.
Room Temperature Columnar Mesomorphism and High Quantum Yield Phosphorescence in Ionic Ruthenium(II) 2,2'-Bipyridine-based Complexes
J. Mater. Chem. *19*, 7643 – 7649, **2009**. **FI = 4.795**

A6. Bellusci A., Ghedini M., Giorgini L., Gozzo F., **Szerb E. I.**, Crispini A., Pucci D.
Anion Dependent Mesomorphism in Coordination Networks Based on 2,2'-Bipyridine Silver(I) Complexes
Dalton Trans. 7381 – 7389, **2009**. **FI = 4.081**

A7. Talarico A. M., Aiello I., Bellusci A., Crispini A., Ghedini M., Godbert N., Pugliese T., **Szerb E. I.**
Highly luminescent bis-cyclometalated iridium(III) ethylenediamine complex: synthesis and correlation between the solid state polymorphism and the photophysical properties
Dalton Trans. *39*, 1709 – 1712, **2010**. **FI = 3.647**

A8. **Szerb E. I.**, Talarico A. M., Aiello I., Crispini A., Godbert N., PucciD., PuglieseT., Ghedini M.
Red to Green Switch Driven by Order in an Ionic Ir(III) Liquid-Crystalline Complex
Eur. J. Inorg. Chem. 3270 – 3277, **2010**. **FI = 2.910**

A9. **Szerb E. I.***, Crispini A., La Deda M., Pucci D., Liguori P., Pettinari C.
Europium(III) and Terbium(III) Luminescent Lanthanidomesogens

Mol. Cryst.Liq.Cryst. *549*, 86 – 99, **2011**. **FI = 0.580**

A10. Pucci D., Crispini A., Ghedini M., **Szerb E. I.**, La Deda M.
2,2'-biquinolines as test pilots for tuning the colour emission of luminescent mesomorphic silver(I) complexes
Dalton Trans. *40*, 4614 – 4622, **2011**. **FI = 3.838**

A11. Aiello D., Talarico A. M., Teocoli F., **Szerb E. I.**, Aiello I., Testa F., Ghedini M.
Self-incorporation of a luminescent neutral Iridium(III) complex in different mesoporous micelle-templated silicas
New J. Chem. *35*, 141 – 148, **2011**. **FI = 2.605**

A12. Crispini A., Pucci D., **Szerb E. I.**, Mastropietro T. F., Talarico A. M., Sanz B., Ghedini M.
Crystallization and co-crystallization of Zn(II) heteroleptic complexes: modulation of properties
Acta Crystallogr. A *68*, S74-S74, **2012**. **FI = 2.244**

A13. Talarico A. M., Ghedini M., Oliviero Rossi C., **Szerb E. I.**
Thermotropic Iridium(III)-based liquid crystal in amphiphilic environment
Soft Matter *8*, 11661 – 11669, **2012**. **FI = 3.909**

A14. Pucci D., Crispini A., Ghedini M., La Deda M., Liguori P. F., Pettinari C., **Szerb E. I.**
"Green light" for Zn(II) mesogens
RSC Adv. *2*, 9071 – 9078, **2012**. **FI = 2.562**

A15. Mastropietro T. F., Yadav Y. J., **Szerb E. I.**, Talarico A. M., Ghedini M., Crispini A.
Luminescence Mechanochromism in Cyclometallated Ir(III) Complexes Containing Picolylamine
Dalton Trans. *41*, 8899 – 8907, **2012**. **FI = 3.806**

A16. Talarico A. M., **Szerb E. I.**, Mastropietro T. F., Aiello I., Crispini A., Ghedini M.
Tuning Solid State Luminescent Properties in Hydrogen Bonding-Directed Supramolecular Assembly of Bis-Cyclometalated Iridium(III) Ethylenediamine Complexes
Dalton Trans. *41,* 4919 – 4926, **2012**. **FI = 3.806**

RI17. Yadav Y. J., Mastropietro T. F., **Szerb E. I.**, Talarico A. M., Pirillo S., Pucci D., Crispini A., Ghedini M.
"2,2'-bipyridine Zn(II) complexes: role of the 4,4' substituents on the crystalline solid state properties."
New J. Chem. *37,* 1486-1493, **2013**. **FI = 3.159**

A18. Mastropietro T. F., **Szerb E. I.**, La Deda M., Crispini A., Ghedini M., Aiello I.
Cyclopalladated 3,5-Disubstituted 2-(2-Pyridyl)pyrroles Complexed to 8-Hydroxyquinoline or 4-Hydroxyacridine
Eur. J. Inorg. Chem. 2188 – 2194, **2013**. **FI = 2.965**

A19. **Szerb E. I.***, Pucci D., Crispini A., La Deda ,

Soft Luminescent Materials Based on Ag(I) Coordination Complexes
Mol. Cryst. Liq. Cryst. 573, 34 – 45, **2013**. **FI = 0.491**

A20. **Szerb E. I.***, Ionescu A., Godbert N., Yadav Y. J., Talarico A. M., Ghedini M.
Anionic cyclometallated Iridium(III) complexes containing substituted bivalent *ortho*-hydroquinones
Inorg. Chem. Commun. *37*, 80 – 83, **2013**. **FI = 2.062**

A21. Yadav Y. J., Heinrich B., De Luca G., Talarico A. M., Mastropietro T. F., Ghedini M., Donnio B.*, **Szerb E. I.***
Chromonic-like physical luminescent gels formed by ionic octahedral Iridium(III) complexes in diluted water solutions
Adv. Optical Mater. 11, 844 – 854, **2013**. **FI = 4.062**

A22. Pucci D., Sanz Mendiguchia B., Tone C. M., **Szerb E. I.**, Ciuchi F., Gao M., Ghedini M., Crispini A.
Unconventionally shaped chromonic liquid crystals formed by novel silver(I) complexes
J. Mater. Chem. C *2(41)*, 8780 – 8788, **2014**. **FI = 4.696**

A23. Talarico A. M., **Szerb E. I.**, Ghedini M., Oliviero Rossi C.
The potential of F127-water soft system towards selective solubilisation of Iridium(III) octahedral complexes
Soft Mater. *10* (35), 6783 – 6790, **2014**. **FI = 4.029**

A24. Ionescu A., **Szerb E. I.**, Yadav Y. J., Talarico A. M., Ghedini M., Godbert N.
Orotate containing anionic luminescent iridium(III) complexes and their use in soft salts
Dalton Trans. *43*, 784 – 789, **2014**. **FI = 4.197**

A25. Ricciardi L., Martini M., Tillement O., Sancey L., Perriat P., Ghedini M., **Szerb E. I.**, Yadav Y. J., La Deda M.
Multifunctional material based on ionic transition metal complexes and gold-silica nanoparticles: Synthesis and photophysical characterization for application in imaging and therapy
J. Photochem. Photobiol. B *140,* 396–404, **2014**. **FI = 2.960**

A26. Ricciardi L., Mastropietro T. F., Ghedini M., La Deda M., **Szerb E. I.***
Ionic-pair effect on the phosphorescence of ionic Iridium(III) complexes
J. Organomet. Chem. *772-773*, 307-313, **2014**. **FI = 2.173**

A27. Itaya T., Hachisuga A., Ohta K., Pucci D., **Szerb E. I.**, La Deda M., Ghedini M.
Liquid crystalline and luminescent behavior of lanthanide complexes composed of Terbium or Europium and dendritic amphiphile
Mol. Cryst. Liq. Cryst. *605*, 70–81, **2014**. **FI = 0.493**

A28. Mastropietro T. F., La Deda M., Godbert N., Ricciardi L., **Szerb E. I.**, Ghedini M., Aiello I.

3,5-Disubstituted-2-(2'-pyridylpyrroles) Ir(III) complexes: Structural and photophysical characterization
J. Organomet. Chem. *786*, 55-62, **2015**. **FI = 2.336**

A29. Cretu C., Cseh L., Tang B. J., Sasca V., Badea V., **Szerb E. I.**, Mehl G. H., Shova S., Costisor O.
Mononuclear Cu(II) complexes of novel salicylidene Schiff bases: synthesis and mesogenic properties
Liq. Cryst. *42*, 1139 – 1147, **2015**. **FI = 2.244**

A30. Oliviero Rossi C., Cretu C., Ricciardi L., Candreva A., La Deda M., Aiello I., Ghedini M., **Szerb E. I.***
Rheological and photophysical investigations of chromonic-like supramolecular mesophases formed by luminescent iridium(III) ionic complexes in water
Liq. Cryst. *44*(5), 880-888, **2017**. **FI = 2.636**

A31. Oliviero Rossi C., Caputo P., Baldino N., **Szerb E. I.**, Teltayev B.
Quantitative evaluation of organosilane-based adhesion promoter effect on bitumen-aggregate bond by contact angle test
Int. J. Adhes. Adhes. *72*, 117–122, **2017**. **FI = 2.065**

A32. **Szerb E. I.**, Cseh L., Pana A.-M., Banica R., Linul P., Lazarovici M., Cretu C., Demetrovici L., Locovei C., Simu G. M., Strimbeanu N., Costisor O.
Synthesis and characterization of Copper nanocubes from waste complex catalyst
Rev. Roum. Chim. *62*(4-5), 433-438, **2017**. **FI = 0.381**

A33. Ricciardi L., Sancey L., Palermo G., Termine R., De Luca A., **Szerb E. I.**, Aiello I., Ghedini M., Strangi G., La Deda M.
Plasmon-mediated cancer phototherapy: the combined effect of thermal and photodynamic processes
Nanoscale, *9*, 19279–19289, **2017**. **FI = 7.233**

A34. **Szerb E. I.**, Nicotera I., Teltayev B., Vaiana R., Oliviero Rossi C.
Highly stable surfactant-crumb rubber-modified bitumen: NMR and rheological investigation
Road. Mater. Pavement. *19(5)*, 1192–1202, **2018**. **FI = 1.980**

A35. Crispini A.*, Cretu C., Aparaschivei D., Andelescu A. A., Sasca V., Badea V., Aiello I., **Szerb E. I.***, Costisor O.
Influence of the counterion on the geometry of Cu(I) and Cu(II) complexes with 1,10-phenanthroline
Inorg. Chim. Acta *470*, 342-351, **2018**. **FI = 2.433**

A36. Spirache M. A., Cretu C., Cseh L., Sasca V., Badea V., Tudose R., Develeseanu-Corici L. N., Costisor O., **Szerb E. I. ***
Ionic salts of nicotinic acid as multifunctional materials

Rev. Roum. Chim. *63*(5-6), 521-525, **2018**. **FI = 0.395**

A37. Crisan M., Vlase G., **Szerb E. I.**, Vlase T.
Thermal and kinetics studies of primary, secondary and tertiary alkanolammonium salts of 4-nitrobenzoic acid
J. Therm. Anal. Calorim. *132*, 1409–1418, **2018**.
FI = 2.731

A38. Andelescu A.-A., Cretu C., Sasca V., Marinescu S., Cseh L., Costisor O., **Szerb E. I.***
New heteroleptic Zn(II) and Cu(II) complexes with quercetine and N^N ligands
Polyhedron *147*, 120–125, **2018**. **FI = 2.284**

A39. Deveseleanu-Corici L. N., Pana A. M., Shova S., Haidu D., Badea V., Apostu M., Buta I., **Szerb E. I.**, Costisor O., Cseh L.
Synthesis and investigation of 2-(hydroxybenzylidene)-4-methylcyclohexan-1-one
Rev. Roum. Chim. *63*(7-8), 743-748, **2018**. **FI = 0.395**

A40. Cretu C., Andelescu A.-A., Candreva A., Crispini A.*, **Szerb E. I.***, La Deda M.
Bisubstituted-Biquinoline Cu(I) complexes: synthesis, mesomorphism and photophysical studies in solution and condensed states
J. Mater. Chem. C *6*, 10073-10082, **2018**. **FI = 6.641**

A41. Corici L., Caschera D., Cseh L., De Luca G., **Szerb E. I.***, Calandra P.*
Amphiphiles as novel solvents for photochromics: stability and photophysical properties.
Mol. Cryst. Liq. Cryst. *684*(1), 24-36, **2019**. **FI = 0.512**

A42. Croitor L., Petric M. F., **Szerb E. I.**, Vlase G., Bourosh P. N., Chumakov Y. M., Crisan M. E.
The role of 4-nitrobenzoic acid polymorphs in the crystallization process of organic acid–base multicomponent systems.
CrystEngComm *21*, 6038-6047, **2019**. **FI = 3.117**

A43. Motoc S., Cretu C., Costisor O., Baciu A., Manea F.*, **Szerb E. I.***
Cu(I) Coordination Complex Precursor for Randomized CuO_x Microarray Loaded on Carbon Nanofiber with Excellent Electrocatalytic Performance for Electrochemical Glucose Detection
Sensors *19*, 5353, **2019**. **FI = 3.275**

A44. Nicola R., Costişor O., Ciopec M., Negrea A., Lazau R., Ianaşi C., Picioruş E.-M., Len A., Almásy L., **Szerb E. I.***, Putz A.-M.
Silica-Coated Magnetic Nanocomposites for Pb^{2+} Removal from Aqueous Solution
Appl. Sci. *10*, 2726, **2020**. **FI = 2.474**

A45. Andelescu A.-A., Heinrich B., Spirache M. A., Voirin E., La Deda M., Di Maio G., **Szerb E. I.***, Donnio B.*, Costisor O.
Playing with Pt^{II} and Zn^{II} Coordination to Obtain Luminescent Metallomesogens
Chem. Eur. J. *26*, 4850 – 4860, **2020**. **FI = 4.857**

A46. **Szerb E. I.**, Domokos R.-A., Creţu C., La Deda M., Chiş V.*
Vibrational and NMR Properties of 2,2′-Biquinolines: Experimental and Computational Spectroscopy Study
J. Nanosci. Nanotechnol. *20*, doi: 10.1166/jnn.2020.18969, **2020**. **FI = 1.134**

A47. Remes A., Manea F.*, Motoc S., Baciu A., **Szerb E. I.***, Gascon J., Gug G.
Highly sensitive non-enzymatic detection of glucose at MWCNT-CuBTC composite electrode
Appl. Sci. *10*, 8419, **2020**. **FI = 2.474**

Capitol carte:
C1. **E. I. Szerb**, A. Crispini, I. Aiello, M. La Deda*, in Springer Handbook of Inorganic Photochemistry, Chapter 3: Liquid crystals. Section: Part L – Inorganic materials for optoelectronics, Section editor: Eli Zysman-Colman, *accepted.*

Articole review:
AR1. Maiuolo L., Calandra P.*, Lombardo D., **Szerb E. I.***
Amphiphiles-metals interactions for applications in modern technologies: recent developments and future perspectives
Rev. Roum. Chim. *65(7-8)*, 647-671, **2020**. **FI = 0.381**

AR2. Cretu C., Maiuolo L., Lombardo D., **Szerb E. I.***, Calandra P.*
Luminescent supramolecular nano- or micro-structures formed in aqueous media by amphiphiles-noble metals complexes
J. Nanomater. *2020*, Article ID 5395048, 24 pages, **2020**. **FI = 1.980**

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