ACADEMIA ROMÂNĂ
SCOSAAR

AVIZAT
PREȘEDINTE SCOSAAR

Acad. Bogdan C. SIMIONESCU

ÎNDEPLINIREA STANDARDELOR MINIMALE [] DA | [] | NU

FIŞA DE ÎNDEPLINIRE A STANDARDELOR MINIMALE
conform CNATDCU

Candidat: **Dr. SZERB Elisabeta Ildyko**

FIŞA DE VERIFICARE
a îndeplinirii standardelor minimale

Categorie Habilitare	N_{max} (*)	FIC (**)	FIC_D (***)	FIC AP (****)	FIC AC (*****)	h index
Cerințe	50	100	70	50	25	13
Realizat	49	**137,969**	**127,941**	**52,013 (65.415)**	**43,619**	**15**

(*) N_{max} – primele maxim N lucrari, organizate in ordinea descrescatoare a factorilor de impact a revistelor in care au fost publicate;

(**) FIC – factorul de impact cumulat minimal al revistelor in care s-au publicat lucrarile in cauza;
(***)FIC_D – factorul de impact cumulat minimal din publicatii in domeniile de cercetare declarate;
(****) FIC_{AP} – factorul de impact cumulat minimal din publicatii in calitate de autor principal (prim-autor si autor de corespondenta);
(*****) FIC_{AC} – factorul de impact cumulat minimal din publicatii in calitate de autor de corespondenta;

Nr. Crt	Articol	FIC	FIC_D	FIC_{AP}	FIC_{AC}	Nr. citări
1.	L. Ricciardi, L. Sancey, G. Palermo, R. Termine, A. De Luca, **E. I. Szerb**, I. Aiello, M. Ghedini, G. Strangi, M. La Deda, Plasmon-mediated cancer phototherapy: the combined effect of thermal and photodynamic processes, *Nanoscale* **2017**, *9*, 19279.	7.233	7.233	-	-	**18**
2.	C. Cretu, A. A. Andelescu, A. Candreva, A. Crispini, **E. I. Szerb**, M. La Deda , Bisubstituted-Biquinoline Cu(I) complexes: synthesis, mesomorphism and photophysical studies in solution and condensed states, *J. Mater. Chem. C* **2018**, *6*, 10073	6.641	6.641	6.641	6.641	4
3.	D. Pucci, G. Barberio, A. Bellusci, A. Crispini, B. Donnio, L. Giorgini, M. Ghedini, M. La Deda, **E. I. Szerb**, Silver Coordination Complexes as Room-Temperature Multifunctional Materials, *Chem. Eur. J.* **2006**, *12*, 6738.	5.015	5.015	-	-	**51**
4.	A. A. Andelescu, B. Heinrich, M. A. Spirache, E. Voirin, M. La Deda, G. Di Maio, **E. I. Szerb**, B. Donnio, O. Costisor, Playing with PtII and ZnII Coordination to Obtain Luminescent Metallomesogens, *Chem. Eur. J.* **2020**, *26*, 4850.	4.857	4.857	4.857	4.857	1
5.	D. Pucci, A. Bellusci, A. Crispini, M. Ghedini, N. Godbert, **E. I. Szerb**, A. M. Talarico, Room Temperature Columnar Mesomorphism and High Quantum Yield Phosphorescence in Ionic Ruthenium(II) 2,2'-Bipyridine-based Complexes, *J. Mater. Chem*. **2009**, *19*, 7643.	4.795	4.795	-	-	**16**
6.	D. Pucci, B. Sanz Mendiguchia, C. M. Tone, **E. I. Szerb**, F. Ciuchi, M. Gao, M. Ghedini, A. Crispini, Unconventionally shaped chromonic liquid crystals formed by novel silver(I) complexes, J. *Mater. Chem. C*, **2014**, *2*, 8780.	4.696	4.696	-	-	6
7.	A. Bellusci, A. Crispini, D. Pucci, **E. I. Szerb**, M. Ghedini, Structural Variations in Bipyridine Silver(I) Complexes: Role of the Substituents and Counterions, *Cryst. Growth & Des*. **2008**, *8*, 3114.	4.215	4.215	-	-	**47**

8.	A. Ionescu, **E. I. Szerb**, Y. J. Yadav, A. M. Talarico, M. Ghedini, N. Godbert, Orotate containing anionic luminescent iridium(III) complexes and their use in soft salts, *Dalton Trans*. **2014**, 43, 784 – 789.	4.197	4.197	-	-	**18**
9.	A. Bellusci, M. Ghedini, L. Giorgini, F. Gozzo, **E. I. Szerb**, A. Crispini, D. Pucci, Anion Dependent Mesomorphism in Coordination Networks Based on 2,2'-Bipyridine Silver(I) Complexes, *Dalton Trans*. **2009**, 7381.	4.081	4.081	-	-	**19**
10.	Y. J. Yadav, B. Heinrich, G. De Luca, A. M. Talarico, T. F. Mastropietro, M. Ghedini, B. Donnio, **E. I. Szerb**, Chromonic-like physical luminescent gels formed by ionic octahedral Iridium(III) complexes in diluted water solutions, *Adv. Opt. Mater*. **2013**, *1*, 844.	4.062	4.062	4.062	4.062	**21**
11.	A. M. Talarico, **E. I. Szerb**, M. Ghedini, C. Oliviero Rossi, The potential of F127-water soft system towards selective solubilisation of Iridium(III) octahedral complexes, *Soft Mater*. **2014**, *10*(35), 6783.	4.029	4.029	-	-	2
12.	A. M. Talarico, M. Ghedini, C. Oliviero Rossi, **E. I. Szerb**, Thermotropic Iridium(III)-based liquid crystal in amphiphilic environment, *Soft Matter*. **2012**, *8*, 11661.	3.909	3.909	3.909	3.909	13
13.	D. Pucci, A. Crispini, M. Ghedini, **E. I. Szerb**, M. La Deda, 2,2'-biquinolines as test pilots for tuning the colour emission of luminescent mesomorphic silver(I) complexes, *Dalton Trans*. **2011**, *40*, 4614.	3.838	3.838	-	-	**35**
14.	A. M. Talarico, **E. I. Szerb**, T. F. Mastropietro, I. Aiello, A. Crispini, M. Ghedini, Tuning Solid State Luminescent Properties in Hydrogen Bonding-Directed Supramolecular Assembly of Bis-Cyclometalated Iridium(III) Ethylenediamine Complexes, *Dalton Trans*. **2012**, *41*, 4919.	3.806	3.806	-	-	**26**
15.	T. F. Mastropietro, Y. J. Yadav, **E. I. Szerb**, A. M. Talarico, M. Ghedini, A. Crispini, Luminescence Mechanochromism in Cyclometallated Ir(III) Complexes Containing Picolylamine, *Dalton Trans*. **2012**, *41*, 8899.	3.806	3.806	-	-	**33**
16.	A. M. Talarico, I. Aiello, A. Bellusci, A. Crispini, M. Ghedini, N. Godbert, T. Pugliese, **E. I. Szerb**, Highly luminescent bis-cyclometalated iridium(III) ethylenediamine complex: synthesis and correlation between the solid state polymorphism and the photophysical properties, *Dalton Trans*. **2010**, *39*, 1709.	3.647	3.647	-	-	**31**
17.	S. Motoc, C. Cretu, O. Costisor, A. Baciu, F. Manea, **E. I. Szerb**, Cu(I) Coordination Complex Precursor for Randomized CuOx Microarray Loaded on Carbon Nanofiber with Excellent Electrocatalytic Performance for Electrochemical Glucose Detection, *Sensors* **2019**, *19*, 5353.	3.275	3.275	3.275	3.275	0

18.	Y. J. Yadav, T. F. Mastropietro, **E. I. Szerb**, A. M. Talarico, S. Pirillo, D. Pucci, A. Crispini, M. Ghedini, 2,2'-bipyridine Zn(II) complexes: role of the 4,4' substituents on the crystalline solid state properties, *New J. Chem*. **2013**, *37*, 1486.	3.159	3.159	-	-	8
20.	L. Croitor, M. F. Petric, **E. I. Szerb**, G. Vlase, P. N. Bourosh, Y. M. Chumakov, M. E. Crisan, The role of 4-nitrobenzoic acid polymorphs in the crystallization process of organic acid–base multicomponent systems, *CrystEngComm* **2019**, *21*, 6038.	3.117	-	-	-	5
19.	T. F. Mastropietro, E. I. Szerb, M. La Deda, A. Crispini, M. Ghedini, I. Aiello, Cyclopalladated 3,5-Disubstituted 2-(2-Pyridyl)pyrroles Complexed to 8-Hydroxyquinoline or 4-Hydroxyacridine, *Eur. J. Inorg. Chem*. **2013**, 2188.	2.965	2.965	-	-	5
20.	L. Ricciardi, M. Martini, O. Tillement, L. Sancey, P. Perriat, M. Ghedini, **E. I. Szerb**, Y. J. Yadav, M. La Deda, 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* **2014**, *140*, 396.	2.960	2.960	-	-	**16**
21.	**E. I. Szerb**, A. M. Talarico, I. Aiello, A. Crispini, N. Godbert, D. Pucci, T. Pugliese, M. Ghedini, Red to Green Switch Driven by Order in an Ionic Ir(III) Liquid-Crystalline Complex, *Eur. J. Inorg. Chem*. **2010**, 3270.	2.910	2.910	2.910	-	**48**
22.	C. Oliviero Rossi, C. Cretu, L. Ricciardi, A. Candreva, M. La Deda, I. Aiello, M. Ghedini, **E. I. Szerb**, Rheological and photophysical investigations of chromonic-like supramolecular mesophases formed by luminescent iridium(III) ionic complexes in water, *Liq. Cryst*. **2017**, *44*(5), 880.	2.636	2.636	2.636	2.636	14
23.	D. Aiello, A. M. Talarico, F. Teocoli, E. I. Szerb, I. Aiello, F. Testa, M. Ghedini, Self-incorporation of a luminescent neutral Iridium(III) complex in different mesoporous micelle-templated silicas, *New J. Chem*. **2011**, *35*, 141.	2.605	2.605	-	-	**24**
24.	D. Pucci, A. Crispini, M. Ghedini, M. La Deda, P. F. Liguori, C. Pettinari, **E. I. Szerb**, "Green light" for Zn(II) mesogens, *RSC Adv.* **2012**, *2*, 9071.	2.562	2.562	-	-	9
25.	D. Pucci, G. Barberio, A. Bellusci, A. Crispini, M. La Deda, M. Ghedini, **E. I. Szerb**, Induction of columnar mesomorphism in tetracoordinated ionic Silver(I) complexes based on chelate 4,4'-disubstituted 2,2'-bipyridines, *Eur. J. Inorg. Chem*. **2005**, 2457.	2.514	2.514	-	-	**34**

26.	R. Nicola, O. Costişor, M. Ciopec, A. Negrea, R. Lazau, C. Ianaşi, E.-M. Picioruş, A. Len, L. Almásy, **E. I. Szerb**, A.-M. Putz, Silica-Coated Magnetic Nanocomposites for Pb^{2+} Removal from Aqueous Solution, *Appl. Sci*. **2020**, *10*, 2726.	2.474	2.474	2.474	2.474	2
27.	A. Remes, F. Manea, S. Motoc, A. Baciu, **E. I. Szerb**, J. Gascon, G. Gug, Highly sensitive non-enzymatic detection of glucose at MWCNT-CuBTC composite electrode, *Appl. Sci*. **2020**, *10*, 8419.	2.474	2.474	2.474	2.474	0
28.	M. Crisan, G. Vlase, **E. I. Szerb**, T. Vlase, Thermal and kinetics studies of primary, secondary and tertiary alkanolammonium salts of 4-nitrobenzoic acid, *J. Therm. Anal. Calorim.* **2018**, *132*, 1409.	2.471	-	-	-	8
29.	A. Crispini, C. Cretu, D. Aparaschivei, A. A. Andelescu, V. Sasca, V. Badea, I. Aiello, **E. I. Szerb**, O. Costisor, Influence of the counterion on the geometry of Cu(I) and Cu(II) complexes with 1,10-phenanthroline, *Inorg. Chim. Acta* **2018**, *470*, 342.	2.433	2.433	2.433	2.433	9
30.	T. F. Mastropietro, M. La Deda, N. Godbert, L. Ricciardi, **E. I. Szerb**, M. Ghedini, I. Aiello, 3,5-Disubstituted-2-(2 '-pyridylpyrroles) Ir(III) complexes: Structural and photophysical characterization., *J. Organomet. Chem*. **2015**, *786*, 55.	2.336	2.336	-	-	6
31.	A. A. Andelescu, C. Cretu, V. Sasca, S. Marinescu, L. Cseh, O. Costisor, **E. I. Szerb**, New heteroleptic Zn(II) and Cu(II) complexes with quercetine and N^N ligands, *Polyhedron* **2018**, *147*, 120.	2.284	2.284	2.284	2.284	9
32.	A. Crispini, D. Pucci, **E. I. Szerb**, T. F. Mastropietro, A. M. Talarico, B. Sanz, M. Ghedini, Crystallization and co-crystallization of Zn(II) heteroleptic complexes: modulation of properties, *Acta Crystallogr. A* **2012**, *68*, S74.	2.244	2.244	-	-	0
33.	C. Cretu, L. Cseh, B. J. Tang, V. Sasca, V. Badea, **E. I. Szerb**, G. H. Mehl, S. Shova, O. Costisor, Mononuclear Cu(II) complexes of novel salicylidene Schiff bases: synthesis and mesogenic properties, *Liq. Cryst*. **2015**, *42*, 1139.	2.244	2.244	-	-	2
34.	L. Ricciardi, T. F. Mastropietro, M. Ghedini, M. La Deda, **E. I. Szerb**, Ionic-pair effect on the phosphorescence of ionic Iridium(III) complexes, *J. Organomet. Chem*. **2014**, *772-773*, 307.	2.173	2.173	2.173	2.173	11
35.	C. Oliviero Rossi, P. Caputo, N. Baldino, **E. I. Szerb**, B. Teltayev, Quantitative evaluation of organosilane-based adhesion promoter effect on bitumen-aggregate bond by contact angle test, *Int. J. Adhes. Adhes*. **2017**, *72*, 117.	2.065	-	-	-	14

36.	**E. I. Szerb**, A. Ionescu, N. Godbert, Y. J. Yadav, A. M. Talarico, M. Ghedini, Anionic cyclometallated Iridium(III) complexes containing substituted bivalent ortho-hydroquinones, *Inorg. Chem. Commun*. **2013**, *37*, 80.	2.062	2.062	2.062	2.062	10
37.	**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*.	2.000	2.000	2.000	-	0
38.	**E. I. Szerb**, I. Nicotera, B. Teltayev, R. Vaiana, C. Oliviero Rossi, Highly stable surfactant-crumb rubber-modified bitumen: NMR and rheological investigation, *Road. Mater. Pavement*. **2018**, *19*(5), 1192.	1.980	-	1.980	-	10
39.	C. Cretu, L. Maiuolo, D. Lombardo, **E. I. Szerb**, P. Calandra, Luminescent supramolecular nano- or micro-structures formed in aqueous media by amphiphiles-noble metals complexes, *J. Nanomater*. **2020**, *2020*, Article ID 5395048, 24 pages.	1.980	1.980	1.980	1.980	2
40.	**E. I. Szerb**, R.-A. Domokos, C. Crețu, M. La Deda, V. Chiş, Vibrational and NMR Properties of 2,2′-Biquinolines: Experimental and Computational Spectroscopy Study, *J. Nanosci. Nanotechnol*. **2020**, *20*, doi: 10.1166/jnn.2020.18969	1.134	1.134	1.134	-	0
41.	**E. I. Szerb**, A. Crispini, M. La Deda, D. Pucci, P. Liguori, C. Pettinari, Europium(III) and Terbium(III) Luminescent Lanthanidomesogens, *Mol. Cryst.Liq.Cryst*. **2011**, *549*, 86.	0.580	0.580	0.580	0.580	5
42.	L. Corici, D. Caschera, L. Cseh, G. De Luca, **E. I. Szerb**, P. Calandra, Amphiphiles as novel solvents for photochromics: stability and photophysical properties, *Mol. Cryst. Liq. Cryst*. **2019**, *684*(1), 24.	0.512	0.512	0.512	0.512	1
43.	T. Itaya, A. Hachisuga, K. Ohta, D. Pucci, **E. I. Szerb**, M. La Deda, M. Ghedini, Liquid crystalline and luminescent behavior of lanthanide complexes composed of Terbium or Europium and dendritic amphiphile, *Mol. Cryst. Liq. Cryst*. **2014**, *605*, 70.	0.493	0.493	-	-	0
44.	**E. I. Szerb**, D. Pucci, A. Crispini, M. La Deda, Soft Luminescent Materials Based on Ag(I) Coordination Complexes, *Mol. Cryst. Liq. Cryst*. **2013**, *573*, 34.	0.491	0.491	0.491	0.491	6
45.	D. Pucci, G. Barberio, A. Bellusci, A. Crispini, M. Ghedini, **E. I. Szerb**, Supramolecular columnar mesomorphism induced by silver(I) coordination of 2,2'-bipyridine-4,4'-diamides, *Mol. Cryst. Liq. Cryst*. **2005**, *441*, 251.	0.468	0.468	-	-	9
46.	M. A. Spirache, C. Cretu, L. Cseh, V. Sasca, V. Badea, R. Tudose, L. N. Develeseanu-Corici, O.	0.395	0.395	0.395	0.395	2

	Costisor, **E. I. Szerb**, Ionic salts of nicotinic acid as multifunctional materials, *Rev. Roum. Chim.* **2018**, *63*(5-6), 521.					
47.	L. N. Deveseleanu-Corici, A. M. Pana, S. Shova, D. Haidu, V. Badea, M. Apostu, I. Buta, **E. I. Szerb**, O. Costisor, L. Cseh, Synthesis and investigation of 2-(hydroxybenzylidene)-4-methylcyclohexan-1-one, *Rev. Roum. Chim.* **2018**, 63(7-8), 743.	0.395	-	-	-	0
48.	L. Maiuolo, P. Calandra, D. Lombardo, **E. I. Szerb**, Amphiphiles-metals interactions for applications in modern technologies: recent developments and future perspectives, *Rev. Roum. Chim.* **2020**, 65(7-8), 647.	0.381	0.381	0.381	0.381	**0**
49.	**E. I. Szerb**, L. Cseh, A.-M. Pana, R. Banica, P. Linul, M. Lazarovici, C. Cretu, L. Demetrovici, C. Locovei, G. M. Simu, N. Strimbeanu, O. Costisor, Synthesis and characterization of Copper nanocubes from waste complex catalyst, *Rev. Roum. Chim.* **2017**, *62*(4-5), 433.	0.370	0.370	0.370	-	0
Total:		**137,969**	**127.941**	**52,013**	**43,619**	**610**

Menționez că articolele de pe pozițiile 3, 9, 13 şi 46 (FI cumulate = 13.402) sunt rezultatele muncii depuse în timpul doctoratului şi fac obiectul tezei, regulile Universității din Calabria impunând publicarea autorilor în ordinea poziției deținute în cadrul grupului de cercetare (primii fiind profesorii, doctoranzii la final). Astfel, $\mathbf{FIC_{AP} = 65.415}$.

Data: 23.02.2021

SZERB Elisabeta I.