

Prof. dr. Ion Grosu

Indeplinirea criteriilor CNADTCU pe toata activitatea (Grosu Ion)

Lista publicatiilor considerate

1. Terenti, N.; Giurgi, G.-I.; Anghel, C.; Bogdan, A.; Pop, A.; Stroia, I.; Terec, A.; Szolga, L.; Grosu, I.; Roncali, J.  
*Structure-properties of small donor-acceptor molecules for homojunction single-material organic solar cells*  
*J. Mater Chem. C*, **2022**, *10*, 5716-5726 (IF = 5,7)
2. Terenti, N.; Giurgi, G.-I.; Szolga, L.; Stroia, I.; Terec, A.; Grosu, I.; Crişan,\* A. P.  
*Effect of the Terminal Acceptor Unit on the Performance of Non-Fullerene Indacenodithiophene Acceptors in Organic Solar Cells*  
*Molecules* **2022**, *27*, paper number 1229 (IF = 4.6)
3. Căta, L.; Terenti, N.; Cociug, C.; Hădade\*, N. D.; Grosu\*, I.; Bucur, C.; Cojocaru, B.; Parvulescu\*, V. I.; Mazur, M.; Čejka\*, J.  
*Sonogashira Synthesis of New Porous Aromatic Framework Entrapped Palladium Nanoparticles as Heterogeneous Catalysts for Suzuki–Miyaura Cross-Coupling*  
*ACS Appl. Mater. Interfaces*, **2022**, *14*, 10428-10437 (IF = 8,2)
4. Stroia, I.; Moraru, I. T. Miclăuş, M.; Grosu, I.; Lar, C.; Grosu, I. G.; Terec, A.  
*Solid-State and Theoretical Investigations of Some Banister-Type Macrocycles with 2,2'-Aldoxime-1,1'-Biphenyl Units*  
*Frontiers in Chemistry*, **2021**, *96*, Article number 750418 (IF = 3,8)
5. Anghel, C. C.; Stroia, I.; Pop, A.; Bende, A.; Grosu, I.; Hădade, N. D.; Roncali, J.  
*An attempt to synthesize a thienyl-based analog of indacenedithiophene (IDT): unexpected synthesis of a naphtho[2,3-b]thiophene derivative*  
*RSC Advances*, **2021**, *11*, 9894–9900 (IF = 3.9)
6. Pop, L.; Grosu, I. G.; Miclăuş, M.; Hădade, N. D.; Pop, A.; Bende, A.; Terec,\* A.; Barboiu,\* M.; Grosu,\* I.  
*Halogen-Bonded Organic Frameworks of Perfluoroiodo- and Perfluorodiodobenzene with 2,2',7,7'-Tetrapyridyl-9,9'-spirobifluorene*  
*Cryst. Growth Des.*, **2021**, *21*, 1045-1054 (IF = 3,4)
7. Terenti, N.; Crisan, A. P.; Jungsuttiwong, S.; Hadade, N. D.; Pop, A.; Grosu, I.; Roncali J.\*  
*Effect of the mode of fixation of the thienyl rings on the electronic properties of electron acceptors based on indacenodithiophene (IDT)*  
*Dyes and Pigments*, **2021**, *187*, nr. 109116 (IF = 4,2)
8. Bogdan, A.; Szolga, L.; Giurgi, G.-I.; Crişan, A. P.; Bogdan, D.; Hadsadee, S.; Jungsuttiwong, S.; Po, R.; Grosu\*, I.; Roncali\*, J.  
*Structure-properties relationships in triarylamine-based push-pull systems-C60 dyads as active material for single-material organic solar cells*  
*Dyes and Pigments*, **2021**, *184*, nr. 108845 (IF = 4,2)
9. Nan M. I.; Lakatos, E.; Giurgi, G.-I.; Szolga, L.; Po, R.; Terec, A.; Jungsuttiwong; S.; Grosu, I.\*; Roncali, J.\*,  
*Mono- and di-substituted pyrene-based donor- $\pi$ -acceptor systems with phenyl and thienyl  $\pi$ -conjugating bridges*  
*Dyes and Pigments*, **2020**, article number 108527, IF = 4,2)

10. Crişan, C. V.; Soran, A.; Bende, A.; Hädade, N. D.; Terec, A.; Grosu,\* I.  
*Synthesis, Structure and Supramolecular Properties of a Novel C3 Cryptand with Pyridine Units in the Bridges*  
*Molecules*, **2020**, *25*, 3789 (IF = 4.6)
11. Grosu, I. G.; Pop, L.; Miclăuş, M.; Hädade, N. D.; Terec, A.; Bende, A.; Socaci, C.; Bärboiu, M.\*; **Grosu, I.\***  
*Halogen Bonds (N---I) at Work: Supramolecular Catemeric Architectures of 2,7-Dipyridylfluorene with ortho-, meta-, or para Diodotetrafluorobenzene Isomers*  
*Cryst. Growth Des.*, **2020**, *20*, 3429-3441, (IF = 3,4)
12. Diac, A.P.; Szolga, L.; Cabanetos, C.; Bogdan, A.; Terec, A.; **Grosu, I.**; Roncali, J.\*  
*C<sub>60</sub>- small arylamine push-pull dyads for single-material organic solar cells*  
*Dyes and Pigments*, **2019**, 171, article number 107748 IF = 4,2
13. Trandafir. M. M.; Pop, L.; Hädade, N. D.; Hristea, I.; Teodorescu, C. M.; Krumeich, F.; van Bokhoven,\* J. A.; **Grosu,\* I.**; Parvulescu,\* V. I.;  
*Spirobifluorene-based Porous Organic Polymers as Efficient Porous Supports for Pd and Pt for Selective Hydrogenation;*  
*ChemCatChem*, **2019**, *11*, 538-549, (IF = 3,8)
14. Roncali,\* J; **Grosu, I.**  
*The Dawn of Single Material Organic Solar Cells,*  
*Adv. Sci.* **2019**, 1801026, (IF = 14,1)
15. Diac, A., Matache, M., **Grosu, I.**, Hädade, N.D.\*, *Naphthalenediimide – A Unique Motif in Macrocyclic and Interlocked Supramolecular Structures*  
*Adv. Synth. Catal.*, **2018**, 360, 817-845. (IF = 4,0)
16. Bacalum, M.; Janosi, L.; Zorila, F.; Tepes, A.-M.; Ionescu, C.; Bogdan, E.; Hadade, N.; Craciun, L.; **Grosu, I.**; Turcu, I.\*; Radu, M.\*  
*Modulating short tryptophan- and arginine-rich peptides activity by substitution with histidine,*  
*Biochim. Biophys. Acta - General Subjects*, **2017**, 1861, 1844-1854; (IF = 2,2);
17. Martin, F.A.\*; Marconi, D.; Neamtu, S.; Radu, T.; Florescu, M.; Turcu, R.; Lar, C.; Hädade, N.D.; **Grosu, I.**; Turcu, I.\* *“Click” access to multilayer functionalized Au surface: A terpyridine patterning example,*  
*Mat. Sci. Engin. C*, **2017**, 75, 1343-1350; (IF = 8,2)
18. Grosu, I.G.; Rednic, M. I.; Miclăuş, M.; **Grosu, I.**; Bende, A.\* *The nature of intermolecular interactions in pyridinium-anion-β-hexachlorocyclohexane molecular crystals,*  
*Phys. Chem. Chem. Phys.* **2017**, 19, 20691-20698; (IF = 2,9);
19. Mocanu, T.; Pop, L.; Hädade, N. D.; Shova, S.; **Grosu, I.**; Andruh, M.\* *Coordination polymers constructed from tetrahedral-shaped adamantane tectons;*  
*CrystEngComm*, **2017**, 19, 27-31; (IF = 2.6);
20. Trandafir, M. M.; Pop, L.; Hädade, N. D.; Florea, M.; Neatu, F.; Teodorescu, C. M.; Duraki, B.; van Bokhoven, J. A.; **Grosu, I.\***; Parvulescu, V. I.\*; Garcia, H.\* *An adamantane-based COF: stability, adsorption capability, and behaviour as a catalyst and support for Pd and Au for the hydrogenation of nitrostyrene,*  
*Catal. Sci. Technol.*, **2016**, 6, 8344-8354; (IF = 4,3)
21. Rednic, M. I.; Varga, R. A.; Bende, A.; Grosu, I. G.; Miclăuş, M.; Hädade, N. D.; Terec, A.; Bogdan, E.; **Grosu, I.\***  
*Supramolecular anion recognition by β-HCH*  
*Chem. Commun.*, **2016**, 52, 12322-12325 (IF = 4,3)
22. Pop, L.; Hadade, N. D.; van der Lee, A.; Barboiu, M.; **Grosu, I.\***; Legrand.; Y.-M.\*

- Occurrence of Charge-Assisted Hydrogen Bonding in Bis-amidine Complexes Generating Macrocycles, Cryst. Growth Des.*, **2016**, *16*, 3271–3278 (IF = 3,4)
- 23.** Kocsis, I., Rotaru, A., Legrand, Y.-M., **Grosu, I.**, Barboiu, M.\*  
*Supramolecular rulers enabling selective detection of pure short ssDNA via chiral self-assembly*  
*Chem. Commun.*, **2016**, *52*, 386-389 (IF = 4,3)
- 24.** Pop, L., Dumitru, F., Hädade, N.D., Legrand, Y.-M., Van der Lee, A., Barboiu, M.\*, **Grosu, I.\***  
*Exclusive Hydrophobic Self-Assembly of Adaptive Solid-State Networks of Octasubstituted 9,9'-Spirobifluorenes*  
*Org. Lett.*, **2015**, *17*, 3494-3497 (IF = 4,9)
- 25.** Diac, A., Demeter, D., Allain, M., **Grosu, I.**, Roncali, J.\*  
*Simple and versatile molecular donors for organic photovoltaics prepared by metal-free synthesis*  
*Chem. Eur. J.*, **2015**, *21*, 1598-1608 (IF = 3,7)
- 26.** Demeter, D., Mohamed, S., Diac, A., Grosu, I., Roncali, J.\*  
*Small molecular donors for organic solar cells obtained by simple and clean synthesis*  
*ChemSusChem*, **2014**, *7*, 1046-1050 (IF = 6,6)
- 27.** Kocsis, I., Dumitrescu, D., Legrand, Y.-M., Van Der Lee, A., **Grosu, I.**, Barboiu, M.\*  
*Self-sorting of dynamic metallosupramolecular libraries (DMLs) via metal-driven selection*  
*Chem. Commun.*, **2014**, *50*, 2621-2623 (IF = 4,3)
- 28.** Golban, M. L., Pascanu, V. Hädade, N. D., Pop, L., Socaci, C., **Grosu, I.\***  
*Novel nucleobase-decorated tripodands: Synthesis and supramolecular properties*  
*Synthesis*, **2014**, 1229-1235 (IF = 2,3)
- 29.** Circu, M.; Soran, A.; Hadade, N. D.; Rednic, M.; Terec, A.; **Grosu, I.\***;  
Cryptands with 1,3,5-tris(1',3'-dioxan-2'-yl)-benzene units: synthesis and structural investigations  
*J. Org. Chem.*, **2013**, *78*, 8722-8729 (IF = 3,3)
- 30.** Circu, M.; Pascanu, V.; Soran, A.; Braun, B.; Terec, A.; Socaci, C.; **Grosu, I.\***, *Solid state supramolecular assemblies of triol podands through H-bonds.*  
*CrystEngComm*, **2012**, *14*, 632-639 ; (IF = 2,6);
- 31.** Roiban, G. D.; Serrano, E.; Soler, T.; Aullon, G.; **Grosu, I.**; Cativiela, C.; Martinez, M; Urriolabeitia, E. P.\*  
*Regioselective Orthopalladation of (Z)-2-Aryl-4-Arylidene-5(4H)-Oxazolones: Scope, Kinetic-Mechanistic, and Density Functional Theory Studies of the C-H Bond Activation,*  
*Inorg. Chem.*, **2011**, *50*, 8132-8140 (IF = 4,7)
- 32.** Piron, F.; Leriche, Ph.; **Grosu I.**; Roncali J.\*  
*Electropolymerizable 3D $\pi$ -conjugated architectures with ethylenedioxythiophene (EDOT) end-groups as precursors of electroactive conjugated networks*  
*J. Mater. Chem.*, **2010**, *20*, 10260–10268 ((IF = 5,7) echivalat cu C
- 33.** Roiban, D. G.; Serrano, E.; Soler, T.; Contel. M.; **Grosu, I.**; Cativiela, C.; Urriolabeitia, E. P.\*  
*Orthopalladation of (Z)-2-Aryl-4-Arylidene-5(4H)-Oxazolones. Structure and Functionalization*  
*Organometallics*, **2010**, *29*, 1428-1435 (IF = 5,7)
- 34.** Piron, F.; Oprea, C.; Cismaş, C.; Terec, A; Roncali, J.; **Grosu, I.\***  
*Synthesis of Podands with Cyanurate or Isocyanurate Cores and Terminal Triple Bonds*  
*Synthesis*, **2010**, 1639-1644 (IF = 2,3)
- 35.** Piron, F.; Vanthuynne, N.; Joulin, B.; Naubron, J.-V.; Cismaş, C.; Terec, A.; Varga, R. A.; Roussel, C.\*; Roncali, J.; **Grosu I.\***

*Synthesis, Structural Analysis and Chiral Investigations of Some Atropisomers with EE-Tetrahalogeno-1,3-Butadiene Core*

*J. Org. Chem.*, **2009**, *74*, 9062-9070 (IF = 3,3)

**36.** Roiban, D.G.; Serrano, E.; Soler, T.; **Grosu, I.**; Cativiela, C.; Urriolabeitia, E. P.\*

*Unexpected [2+2] C-C Bond Coupling Due to Photocycloaddition on Orthopalladated (Z)-2-Aryl-4-Arylidene-5(4H)-Oxazolones*

*Chem. Commun.*, **2009**, 4681-4683 (IF = 4,3)

**37.** Tosa, N.; Bende, A.; Varga, R. A.; Terec, A.; Bratu, I.; **Grosu, I.**\*

*H-Bond-Driven Supramolecular Architectures of the Syn and Anti Isomers of the Dioxime of Bicyclo[3.3.1]nonane-3,7-dione.*

*J. Org. Chem.*, **2009**, *74*, 3944-3947 (IF = 3,3)

**38.** Paunescu, E.; Susplugas, S.; Boll, E.; Varga, R.; Mouray, E.; **Grosu, I.**; Grellier, P.; Melnyk, P.\*

*Replacement of the 4'-Hydroxy Group of Amodiaquine and Amopyroquine by Aromatic and Aliphatic Substituents: Synthesis and Antimalarial Activity.*

*ChemMedChem* **2009**, *4*, 549-561 (IF = 3.6)

**39.** Mihiş A., Condamine, E., Bogdan, E., Terec, A, Kurtán, T, **Grosu, I.**\*

*Synthesis and Structure of New 3,3,9,9-Tetrasubstituted-2,4,8,10-Tetraoxaspiro[5.5]undecane derivatives*

*Molecules*, **2008**, *10*, 2848-2858 (IF = 4.6)

**40.** Piron, F.; Leriche, P.; Mabon, G.; **Grosu, I.**; Roncali, J.\*

*Electropolymerization of three-dimensional p-conjugated system based on 3,4-ethylenedioxythiophene (EDOT)*

*Electrochem. Commun.*, **2008**, *10*, 1427-1430 (IF = 4,2)

**41.** Bogdan, N.\*; Condamine, E.; Toupet, L.; Ramondenc, Y.; Bogdan, E.; **Grosu, I.**\*

*New [4.4]Cyclophanes: Molecular Parallelograms, Triangles, Rhombuses, Pentagons and Supramolecular Constructions*

*J. Org. Chem.*, **2008**, *73*, 5831-5838 (IF = 3,3)

**42.** Demeter D.; Blanchard P.; Allain M.; **Grosu, I.**; Roncali J.\*,

*Synthesis and Metal Cation Complexing Properties of Crown Annelated Terthiophenes Containing 3,4-Ethylenedioxythiophene.*

*J. Org. Chem.*, **2007**, *72*, 5285-5290 (IF = 3,3)

**43.** Demeter D.; Blanchard P.; **Grosu, I.**; Roncali J.\*,

*Electropolymerization of Crown-annelated bithiophenes,*

*Electrochem. Commun.*, **2007**, *9*, 1587-1591. (IF = 4,2)

**44.** Bogdan, N; **Grosu, I.**\*; Benoît, G. Toupet, L.; Ramondenc, Y.; Condamine, E.; Silaghi Dumitrescu, I.; Plé, G

*“Molecular Rotors: Design, Synthesis, Structural Analysis and Silver Complex of New [7.7]Cyclophanes”*

*Org. Lett.*, **2006**, *8*, 2619-2622 (IF = 4.9)

**45.** Balog, M.; **Grosu, I.**\*; Plé, G.\*; Ramondenc, Y. Condamine, E.; Varga, R.

*“Design and Synthesis of New Macrocyclic Cyclophanes Using 1,3-Dioxane Units as Bridges: A Molecular “Rocking Chair”*

*J. Org. Chem.* **2004**, *69*, 1337-1345 (IF = 3,3)

**46.** Opris, D.; **Grosu, I.**\*; Toupet, L.; Plé, G.; Terec, A.; Mager, S.; Muntean, L.; *“Synthesis and Stereochemistry of New tetraspiro-1,3-dioxanes”*

*J. Chem. Soc. Perkin Trans. 1*, **2001**, 2413-2420 (*Org. Biomol. Chem.*, IF =2,8)

**47.** Bogdan, E.; **Grosu, I.**\*; Mesáros, E.; Toupet, L.; Plé, G.; Mager, S.; Muntean, L.

*“Considerations on the Stereoselective Synthesis of Dibrominated Spiro-1,3-dioxanes. Synthesis and Stereochemistry of Monobrominated Precursors”*

*J. Chem. Soc. Perkin Trans. 1, 2000, 3635-3639 (Org. Biomol. Chem., IF = 2,8)*

**48. Grosu, I.\*;** Camacho, B. C.; Toscano, A.; Plé, G.; Mager, S.; Martínez, R.; Gavino, R. R.

*“The Synthesis and Stereochemistry of Some New Brominated Spiro 1,3-Dioxanes”*

*J. Chem. Soc. Perkin Trans. 1, 1997, 775-781 (Org. Biomol. Chem., IF = 2,8)*

**49. Grosu, I.\*;** Mager, S. ; Plé, G. ; Horn, M.

*“Axial and Helical Chirality of Some Spiro-1,3-dioxanes”*

*J. Chem. Soc. Chem. Commun., 1995, 167-168 (IF = 4,3)*

**50. Grosu, I.\*;** Mager, S. ; Plé, G.

*“Conformational Analysis of Some Spiro and Polyspiro 1,3-Dioxane Compounds with Axial and Helical Chirality”*

*J. Chem. Soc. Perkin Trans. 2, 1995, 1351-1357 (Org. Biomol. Chem., IF = 2,8)*

Nr lucrare	Punctaje				OBS
	FIC 100 pct	FIC <sub>D</sub> 70 pct	FIC <sub>A</sub> 50 pct	FIC <sub>AC</sub> 25 pct	
1	5,7	5,7			-
2	4,6	4,6			-
3	8,2	8,2	8,2	8,2	
4	3,8	3,8			-
5	3,9	3,9			-
6	3,4	3,4	3,4	3,4	
7	4,2	4,2	4,2	4,2	-
8	4,2	4,2	4,2	4,2	
9	4,2	4,2	4,2	4,2	
10	4,6	4,6	4,6	4,6	
11	3,4	3,4	3,4	3,4	
12	4,2	4,2			-
13	3,8	3,8	3,8	3,8	
14	14,1	14,1			-
15	4,0	4,0			-
16	2,2	2,2			-
17	8,2	8,2			-
18	2,9	2,9			-
19	2,6	2,6			-
20	4,3	4,3	4,3	4,3	
21	4,3	4,3	4,3	4,3	
22	3,4	3,4	3,4	3,4	
23	4,3	4,3			-
24	4,9	4,9	4,9	4,9	
25	3,7	3,7			-
26	6,6	6,6			-
27	4,3	4,3			-
28	2,3	2,3	2,3	2,3	
29	3,3	3,3	3,3	3,3	
30	2,6	2,6	2,6	2,6	
31	4,7	4,7			-
32	5,7	5,7			-
33	2,5	2,5			
34	2,3	2,3	2,3	2,3	
35	3,3	3,3	3,3	3,3	
36	4,3	4,3			-

37	3,3	3,3	3,3	3,3	
38	3,6	3,6			-
39	4,6	4,6	4,6	4,6	
40	4,2	4,2			-
41	3,3	3,3	3,3	3,3	
42	3,3	3,3			-
43	4,2	4,2			
44	4,9	4,9	4,9	4,9	
45	3,3	3,3	3,3	3,3	
46	2,8	2,8	2,8	2,8	
47	2,8	2,8	2,8	2,8	
48	2,8	2,8	2,8	2,8	
49	4,3	4,3	4,3	4,3	
50	2,8	2,8	2,8	2,8	
<b>TOTAL</b>	209,2	209,2	101,6	101,6	
<b>Indeplinire</b>	<b>DA</b>	<b>DA</b>	<b>DA</b>	<b>DA</b>	
<b>%</b>	<b>210 %</b>	<b>299 %</b>	<b>203 %</b>	<b>406 %</b>	

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