

**Conf. dr. Anamaria Terec**

## LISTA DE LUCRĂRI

### a) Articole/studii in extenso, publicate în reviste indexate ISI:

71. Bogošel, D.-F.; Giurgi, G.-I.; Balan, A.; Pop, A.; Grosu, I.; Crișan, A. P.; **Terec, A.\*** The Impact of Structural Modifications in Donor-Acceptor Systems on Homojunction Organic Solar Cell Photovoltaic Properties. *Org. Electron.* **2025**, *141*, 107212.
70. Bogošel, D.-F.; Crișan, A. P.; Pop, A.; **Terec, A.\***; Grosu, I. Investigation of Optical Properties and Solid-State Structure of Thiophene-Containing Triarylamine Derivatives. *Stud. Univ. Babeș-Bolyai Chem.* **2025**, *7*.
69. Frîncu, A. M.; Căta, L.; Bălăceanu, D.; Grosu, I.; Crișan, A. P.; **Terec, A.\*** Synthesis of 2-(2-((5''-(4-Cyanophenyl)-3,4',4''-Trioctyl[2,2':5',2''-Terthiophen]-5-Yl)Methylene)-3-Oxo-2,3-Dihydro-1H-Inden-1-Ylidene)Malononitrile. *Molbank* **2025**, *3*, M2038.
68. Crișan, A.P.; Bogdan, E.; Căta, L.; Hădade, N.D.; **Terec A.\*** Effect of  $\pi$ -Spacer Rigidification on the Optoelectronic Properties and Photovoltaic Performance of Small D- $\pi$ -A Molecules. *Rev. Roum. Chim.* **2025**, *70* (5-6), 287.
67. Căta, L.; Stroia, I.; Nicolay, C.; Hădade, N.D.; **Terec, A.**; Bărboiu, M.; Grosu, I. "ExBoxes" with Fluorene and Carbazole Units. Synthesis, Structure Determination, and Formation of Host-Guest Complexes, *Synthesis* **2025**, *57*, 3579.
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65. Lakatos, E.; Hădade, N. D.; Bogdan, E.; **Terec, A.**; Grosu, I. Suzuki-Miyaura, Sonogashira Cross-Coupling and CuACC Reactions Suite for the Access to a Large Macrocyclic with *m,m'*-Terphenyl Motif. *Rev. Roum. Chim.* **2024**, *69* (5-6), 255-262.
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63. Gabrian, L.; Giurgi, G.-I.; Stroia, I.; Bogdan, E.; Crișan, A.P.; Hădade, N.D.; Grosu, I.; **Terec, A.\*** "Exploring the Optoelectronic Properties of D-A and A-D-A 2,2'-bi[3,2-*b*]thienothiophene Derivatives" *Molecules* **2022**, *27*(23), 8463.
62. Stroia, I.; Pop, A.; Nan, M.I.; Bogdan, E.; **Terec, A.**; Hădade, N.D.; Grosu, I. "Novel macrocycles embedding *p,p'*-terphenyl units: synthesis, characterization, single crystal X-ray molecular structures and theoretical investigations" *Rev. Roum. Chim.* **2022**, *67* (4-5), 233.
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60. Căta, L.; Grosu, I.G.; Miclăuș, M.; Hădăde, N. D.; Grosu, I.; **Terec, A.\*** "Halogen-bonded supramolecular architectures involving 2,7-dipyridylfluorene and 1,3,5-trifluoro-2,4,6-triiodobenzene tectons – a spectacular evolution from catemers to 2D halogen bond organic frameworks (XBOF)" *Stud. Univ. "Babeș-Bolyai", Chem.* **2022**, 67 (2), 193.
59. 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 (14), 5716-5726.
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53. Crișan, A.; Pop, A.; Bogdan, E.; Matache, M.; Pop, L.; **Terec, A.**; Grosu, I.; Hădăde, N. "Selective hydration of electron-rich aryl-alkynes by a Schrock-type Molybdenum alkylidene catalyst" *Rev. Roum. Chim.* **2020**, 65 (7-8), 699.
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• **Postere, articole electronice și prezentări orale (selecție)**

Grosu, I.; Terenti, N.; Frîncu, A.M.; Bogoșel, D.-F.; Nicolay, C.; Giurgi, G.-I.; Crișan, A.P.; **Terec, A.**; Hădade, N.D. “Covalent Organic Frameworks for Homojunction SMOSCs and Electrode Materials”, 14th International Advances in Applied Physics & Materials Science Congress & Exhibition (APMAS), Oludeniz, Turkey, 8-14 Octombrie, **2024**.

Frîncu, A.M.; Terenti, N.; Giurgi, G.I.; Crișan, A.P.; **Terec, A.**; Grosu, I. “Synthesis and investigation of porous organic polymers based on donor-acceptor units as active layers in organic solar cells” Belgian Organic Synthesis Symposium (BOSS XVIII), Liege, Belgium, 30 iunie – 5 iulie, **2024**.

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**Terec, A.**; Piron, F.; Grosu I. "Design, Synthesis and Properties of New Cryptands Containing Nitrogen-Based Heterocycles", 41<sup>st</sup> IUPAC World Chemistry Congress, Torino, Italia, **2007**

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Stadlbauer, W.; De Cecco, W.; Hojas, G.; Kremsner, J.; Pazicky, M.; **Terec-Suciu, A.**; Traar, P.; Uray, G. "Introduction of Linking Groups by Alkylation of Fluorescent Heterocycles", 6<sup>th</sup> International Electronic Conference on Synthetic Organic Chemistry (ECSOC-6), September 1-30, **2002**

### c) Cărți și capitole de carte

Bogdan, E.; Hădade, N.; Socaci, C.; **Terec A.** "Reacții de cuplare în chimia organică – de la teorie la aplicații", Presa Universitară Clujeană, Cluj-Napoca, 2013.

### d) Burse și granturi de stagiu

- 1) **Sciex** Fellowship Elvetia: 6<sup>th</sup> call: <http://www.crus.ch/information-programme/sciex-nms-ch/sciex-granted-projects.html?L=2#c12412>

Sciex Nr. **12.143/2012**

- 2) **Sciex** Fellowship Elvetia: 5<sup>th</sup> call: <http://www.crus.ch/information-programme/sciex-nms-ch/sciex-granted-projects.html?L=2#c12412>

Sciex Nr. 11.177/2012

- 3) Bourse AUF (l'Agence Universitaire de la Francophonie), 2003

### e) Granturi de cercetare câștigate prin competiții națională și internațională, ca director de proiect și coordonator de echipă în consorțiu

1. PN-III-P2-2.1-PED-2019-0841: "Laboratory validation of White electroluminescent Carbon Dot - based Light Emitting Diodes – *UBB team coordinator* 2020-2022;

2. Attract\_907 (Horizon 2020): CarBon quANtum Dots/graPhene hybrids with broAd photoreSponSivity – BANDPASS – *UBB team coordinator* 2019-2020;

3. PNII-ID-PCCE-2011-2-0069: "Carbon quantum dots: exploring a new concept for next generation optoelectronic devices" *Chem UBB team coordinator* 2012-2016;

4. Proiect ID-570: "Design, sinteza, analiza structurala si proprietati supramoleculare ale unor noi compusi macrociclici politopici, pseudo-rotaxani si rotaxani" *project coordinator* 2008-2010;

5. Proiect CNCSIS, tip At, cod 64: "Sinteze neconventionale - cicloaditii [2+2+2], metateza alchinelor - in obtinerea de noi criptanzi si rotorii molecular" *project coordinator* 2006-2007