

Conf. Dr. habil. Anamaria Terec

LISTA DE LUCRĂRI

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

72. Giurgi, G.-I.; Terenti, N.; Crișan, A.- P.; Gălățuș, R.; **Terec, A.***; Szolga, L.-A.; Grosu, I. Transparent single-material organic solar cells (SMOSCs) on flexible PET support: structure–property correlations in homojunction and heterojunction devices. *J. Mater. Sci.: Mater. Electron.* **2026**, 37, 693.
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-YI)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 π -Spacer Rigidification on the Optoelectronic Properties and Photovoltaic Performance of Small D- π -A Molecules. *Rev. Roum. Chim.* **2025**, 70 (5-6), 287.
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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.
64. Gabrian, L.; Giurgi, G.-I.; Szolga, L.; Crișan, A.P.; Bogdan, E.; Gălățuș, R.; **Terec, A.**; Grosu, I. "Bulk and bilayer inverted organic solar cells (OSCs) exhibiting D-A and A-D-A donors with 2,2'-bi[3,2-*b*]thienothiophene units and PC61BM or C70 acceptors" *Stud. Univ. "Babeș-Bolyai", Chem.* **2023**, 68 (1), 275.
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.**; Hădăde, 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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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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54. Crișan, C. V.; Soran, A.; Bende, A.; Hădăde, 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 (17), 3789.
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• **Postere, articole electronice și prezentări orale (selecție)**

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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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c) Cărți și capitole de carte

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d) Burse și granturi de stagiu

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

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

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

e) Granturi de cercetare câștigate prin competiției 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 rotori molecular" *project coordinator* 2006-2007