

**Fișa de îndeplinire a standardelor minime stabilite de CNATDCU
pentru Abilitare, Comisia Chimie**

Dr. Anamaria TERC

TABEL CENTRALIZATOR

Categorie Profesor / CSI / Abilitare	Nmax	FIC	FIC _D	FIC _{AP}	FIC _{AC}	H-index
CRITERII CNATDCU REALIZATE (WoS)	50	147.9	145.7	62.1	40.8	14
Criterii minime CNATDCU-CHIMIE	50	100	70	50	25	13
Grad de îndeplinire (%)		148%	208%	124%	163%	

Lista celor N_{max}=50 lucrări selectate

Nr. crt	Date articol	Prim autor	Autor corespondență (AC)	Factor impact
1	Li, J. [†] ; Terec, A.[†] ; Wang Y.; Joshi H.; Lu Y.; Sun H.; Stuparu M. C. "pi-Conjugated Discrete Oligomers Containing Planar and Nonplanar Aromatic Motifs", <i>J. Am. Chem. Soc.</i> 2017 , <i>139</i> , 3089. http://dx.doi.org/10.1021/jacs.6b12468	da		15.6
2	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" <i>J. Mater. Chem. C</i> 2022 , <i>10</i> (14), 5716-5726. http://dx.doi.org/10.1039/d2tc00430e			5.1
3	Țîntăș, M.L.; Diac, A.P.; Soran, A.; Terec, A. ; Grosu, I.; Bogdan, E. "Structural characterization of new 2-aryl-5-phenyl-1,3,4-oxadiazin-6-ones and their N-arylohydrazone precursors" <i>J. Mol. Struct.</i> 2014 , <i>1058</i> , 106. http://dx.doi.org/10.1016/j.molstruc.2013.11.005			4.7
4	Cîrcu, M.; Petran, A.; Gâz, A.S.; Bogdan, E.; Terec, A. ; Raț, C.I.; Varga, R.A.; Grosu, I. "Synthesis and structure of new crown ethers with 1,4-phenylene and 1,4-naphthylene units" <i>J. Mol. Struct.</i> 2011 , 996 (1-3), 17. http://dx.doi.org/10.1016/j.molstruc.2011.01.052			4.7

5	Gabrian, L.; Giurgi, G.-I.; Stroia, I.; Bogdan, E.; Crişan, 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" <i>Molecules</i> 2022 , 27(23), 8463. http://dx.doi.org/10.3390/molecules27238463		da	4.6
6	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" <i>Molecules</i> 2022 , 27(4), 1229. http://dx.doi.org/10.3390/molecules27041229			4.6
7	Crişan, C. V.; Soran, A.; Bende, A.; Hădade, N. D.; Terec, A. ; Grosu, I. "Synthesis, Structure and Supramolecular Properties of a Novel C3 Cryptand with Pyridine Units in the Bridges" <i>Molecules</i> 2020 , 25 (17), 3789. http://dx.doi.org/10.3390/molecules25173789			4.6
8	Crăciun, A. M.; Diac, A.; Focşan, M.; Socaci, C.; Magyari, K.; Maniu, D.; Mihalache, I.; Veca, L. M. ; Aştilean, S.; Terec, A.* "Surface passivation of carbon nanoparticles with <i>p</i> -phenylenediamine towards photoluminescent carbon dots" <i>RSC Advances</i> 2016 , 6, 56944. http://dx.doi.org/10.1039/c6ra10127e		da	4.6
9	Diac, A.; Focşan, M.; Socaci, C.; Găbudean, A.-M.; Farcău, C.; Maniu, D.; Vasile, E.; Terec, A.* ; Veca, L.M.; Aştilean, S. "Covalent conjugation of carbon dots with Rhodamine B and assessment of their photophysical properties" <i>RSC Advances</i> 2015 , 5, 77662. http://dx.doi.org/10.1039/c5ra13161h		da	4.6
10	Mihîş, A.; Condamine, E.; Bogdan, E.; Terec, A. ; Kurtan, T.; Grosu, I. "Synthesis and Structure of New 3,3,9,9-Tetrasubstituted-2,4,8,10-Tetraoxaspiro[5.5] undecane derivatives" <i>Molecules</i> 2008 , 13, 2848. http://dx.doi.org/10.3390/molecules13112848			4.6
11	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" <i>Front. Chem.</i> 2021 , 9, 750418. http://dx.doi.org/10.3389/fchem.2021.750418		da	4.2
12	Nan, M. I.; Lakatos, E.; Giurgi, G.-I.; Szolga, L.; Po, R.; Terec, A. ; Jungstittiwong, S.; Grosu, I.; Roncali, J. "Mono- and di-substituted pyrene-based donor-pi-acceptor systems with phenyl and thienyl pi-conjugating bridges" <i>Dyes Pigments</i> 2020 , 181, 108527. http://dx.doi.org/10.1016/j.dyepig.2020.108527			4.2
13	Diac, A.P.; Szolga, L.; Cabanetos, C.; Bogdan, A.; Terec, A. ; Grosu, I.; Roncali, J. "C60-small arylamine push-pull dyads for single-material organic solar cells", <i>Dyes Pigm.</i> 2019 , 171, 107748. http://dx.doi.org/10.1016/j.dyepig.2019.107748			4.2
14	Rednic, M.I.; Varga, R.A.; Bende, A.; Grosu, I.G.; Miclaus, M.; Hădade, N. D.; Terec, A. ; Bogdan, E.; Grosu, I. "Supramolecular anion recognition by β -HCH" <i>Chem. Commun.</i> 2016 , 52, 12322. http://dx.doi.org/10.1039/c6cc06842a			4.2
15	Cîrcu, M.; Soran, A.; Hădade, 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" <i>J. Org. Chem.</i> 2013 , 78, 8722. http://dx.doi.org/10.1021/jo401432y		da	3.6

16	Piron, F.; Vanthuyne, 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" <i>J. Org. Chem.</i> 2009 , 74(23), 9062. http://dx.doi.org/10.1021/jo901762j			3.6
17	Toşa, N.; Bende, A.; Varga, R. A.; Terec, A. ; Bratu, I.; Grosu, I. "H-Bond-Driven Supramolecular Architectures of the <i>Syn</i> and <i>Anti</i> Isomers of the Dioxime of Bicyclo[3.3.1]nonane-3,7-dione" <i>J. Org. Chem.</i> 2009 , 74 (10), 3944. http://dx.doi.org/10.1021/jo900484v			3.6
18	Pop, L.; Grosu, I. G.; Miclăuş, M.; Hădăde, N. D.; Pop, A.; Bende, A.; Terec, A.* ; Bărboiu, M.; Grosu, I. "Halogen-Bonded Organic Frameworks of Perfluoroiodo- and Perfluorodiodobenzene with 2,2',7,7'-Tetrapyridyl-9,9'-spirobifluorene" <i>Cryst. Growth. Des.</i> 2021 , 21(2), 1045. http://dx.doi.org/10.1021/acs.cgd.0c01383		da	3.4
19	Grosu, I.G.; Pop, L.; Miclăuş, M.; Hădăde, N.D.; Terec, A. ; Bende, A.; Socaci, C.; Barboiu, M.; Grosu, I. "Halogen Bonds (N---I) at Work: Supramolecular Catemeric Architectures of 2,7-Dipyridylfluorene with ortho-, meta-, or para-Diiidotetrafluorobenzene Isomers", <i>Cryst. Growth Des.</i> 2020 , 20, 3429. http://dx.doi.org/10.1021/acs.cgd.0c00205			3.4
20	Rednic, M.I.; Lu, Z.; Wang, P.; LeCroy, G.E.; Yang, F.; Liu, Y.; Qian, H.; Terec, A. ; Veca, L.M.; Lu, F.; Sun, Y.-P. "Fluorescent carbon 'quantum' dots from thermochemical functionalization of carbon nanoparticles" <i>Chem. Phys. Lett.</i> 2015 , 639, 109. http://dx.doi.org/10.1016/j.cplett.2015.08.069			3.1
21	Veca, L.M.; Diac, A.; Mihalache, I.; Wang, P.; Lecroy, G.E.; Pavelescu, E.M.; Gavrila, R.; Vasile, E.; Terec, A. ; Sun, Y.-P. "Electroluminescence of carbon 'quantum' dots – From materials to devices" <i>Chem. Phys. Lett.</i> 2014 , 613, 40. http://dx.doi.org/10.1016/j.cplett.2014.08.059			3.1
22	Badgujar, N. S.; Pazicky, M.; Traar, P.; Terec, A. ; Uray, G.; Stadlbauer W. "N-Carboxymethylated 6,7-Dimethoxy-4-trifluoromethylcarbo-styrils as Fluorescence Markers for Amino Acids, Peptides, Amino Carbohydrates and Amino Polysaccharides" <i>Eur. J. Org. Chem.</i> 2006 , 12, 2715. http://dx.doi.org/10.1002/ejoc.200500981			2.7
23	Bogoşel, D.-F.; Giurgi, G.-I.; Balan, A.; Pop, A.; Grosu, I.; Crişan, A. P.; Terec, A.* The Impact of Structural Modifications in Donor-Acceptor Systems on Homojunction Organic Solar Cell Photovoltaic Properties. <i>Org. Electron.</i> 2025 , 141, 107212. http://dx.doi.org/10.1016/j.orgel.2025.107212		da	2.6
24	Woiczehowski-Pop, A.; Gligor, D.; Bende, A.; Varodi, C.; Bogdan, E.; Terec, A. ; Grosu, I. "Synthesis, structure, electrochemical behaviour and electrochemical investigations on the assembling with pyrene of a novel C3 cryptand" <i>Supramol. Chem.</i> 2015 , 27, 528. http://dx.doi.org/10.1080/10610278.2014.904868			2.6
25	Cîrcu, M.; Paşcanu, V.; Soran, A.; Braun, B.; Terec, A. ; Socaci C.; Grosu, I. "Solid state supramolecular assemblies of triol			2.6

	podands through H-bonds" <i>CrystEngComm</i> 2012 , 14, 632. http://dx.doi.org/10.1039/c1ce05971h			
26	Opriş, D.; Grosu, I.; Toupet, L.; Ple, G.; Terec, A. ; Mager, S.; Muntean, L. "Synthesis and Stereochemistry of New Tetraspiro-1,3-dioxanes" <i>J. Chem. Soc. Perkin Trans 1</i> 2001 , 2413. http://dx.doi.org/10.1039/b104604g			2.4
27	Căta, L.; Stroia, I.; Nicolay, C.; Hădăde, N.D.; Terec, A. ; Bărboiu, M.; Grosu, I. "ExBoxes" with Fluorene and Carbazole Units. Synthesis, Structure Determination, and Formation of Host–Guest Complexes, <i>Synthesis</i> 2025 , 57, 3579. http://dx.doi.org/10.1055/a-2688-5421			2.3
28	Piron, F.; Oprea, C.; Cismaş, C.; Terec, A. ; Roncali, J.; Grosu, I. "Synthesis of Podands with Cyanurate or Isocyanurate Cores and Terminal Triple Bonds" <i>Synthesis</i> 2010 , 10, 1639.			2.3
29	Piron, F.; Cismaş, C.; Terec, A. ; Roncali, J.; Grosu, I. "Cryptands by One-Pot Homoacetylenic Cu-Catalyzed Coupling – Synthesis, Structure and Properties" <i>Mini Rev. in Org. Chem.</i> 2009 , 6(2), 78. http://dx.doi.org/10.2174/157019309788167666			2.3
30	Maté, N.; Bogdan, E.; Căta, L.; Terec, A. ; van der Lee, A.; Bărboiu, M.; Hădăde, N.D.; Grosu, I. Large multifunctional triphenylamine derivatives as versatile candidates for porous supramolecular materials, <i>Tetrahedron</i> 2025 , 178, 134630. http://dx.doi.org/10.1016/j.tet.2025.134630			2.2
31	Crişan, C.V.; Terec, A. ; Hădăde, N.D.; Grosu, I. "Cryptands with 2,4,6-tris(p-phenylene)-1,3,5-triazine central units and oligoethyleneoxide bridges: Synthesis, structure and complexation abilities" <i>Tetrahedron</i> 2015 , 71, 6888. http://dx.doi.org/10.1016/j.tet.2015.07.019			2.2
32	Petran, A.; Terec, A. ; Bogdan, E.; Soran, A.; Lakatos, E.; Grosu, I. "Thiophene-based macrocycles via the Suzuki-Miyaura cross coupling reaction" <i>Tetrahedron</i> 2014 , 70, 6803. http://dx.doi.org/10.1016/j.tet.2014.07.061			2.2
33	Pop, F.; Socaci, C.; Terec, A.* ; Condamine, E.; Varga, R. A.; Raţ, C. I.; Roncali, J.; Grosu, I. "Cryptands and bismacrocycles with cyanuric and isocyanuric units: synthesis and structural investigations" <i>Tetrahedron</i> 2012 , 68, 8581. http://dx.doi.org/10.1016/j.tet.2012.07.100		da	2.2
34	Mişiş, A.; Golban, L. M.; Raţ, C. I.; Bogdan, E.; Terec, A.* ; Grosu, I. "Synthesis and stereochemistry of new spiro[5.5]undecane derivatives with 1,3-dioxane, 1,3-dithiane, or 1,3-oxathiane rings" <i>Struct. Chem.</i> 2012 , 23, 61. http://dx.doi.org/10.1007/s11224-011-9848-2		da	2.2
35	Terec, A. ; Grosu, I.; Condamine, E.; Breau, L.; Plé, G.; Ramondenc, Y.; Rochon, F.D.; Peulon-Agasse, V.; Opriş, D. "Pentaspiranes and hexaspiranes with 1,3-dioxane or 1,3-oxathiane rings: synthesis and stereochemistry" <i>Tetrahedron</i> 2004 , 60, 3173. http://dx.doi.org/10.1016/j.tet.2004.02.027	da		2.2
36	Terec, A. ; Grosu, I.; Muntean, L.; Toupet, L.; Ple, G.; Socaci, C.; Mager S. "Synthesis, Stereochemistry and Ring Chain Tautomerism of Some New Spiro-1,3-oxathianes" <i>Tetrahedron</i> 2001 , 57, 8751. http://dx.doi.org/10.1016/S0040-4020(01)00858-4	da		2.2

37	Gâz, S. A.; Condamine, E.; Bogdan, N.; Terec, A. ; Bogdan, E.; Ramondenc, Y.; Grosu, I. "Synthesis and stereochemistry of some new spiro and polyspiro-1,3-dithiane derivatives" <i>Tetrahedron</i> 2008 , 64, 7295. http://dx.doi.org/10.1016/j.tet.2008.05.065			2.2
38	Lar, C.; Woiczehowski-Pop, A.; Bende, A.; Grosu, I.G.; Miklášová, N.; Bogdan, E.; Hădade, N.D.; Terec, A.* ; Grosu, I. "A three-armed cryptand with triazine and pyridine units: Synthesis, structure and complexation with polycyclic aromatic compounds", <i>Beil. J. Org. Chem.</i> 2018 , 14, 1370. http://dx.doi.org/10.3762/bjoc.14.115		da	2.1
39	Cismaș, C.; Terec, A. ; Mager, S.; Grosu, I. "Six-membered ring spiranes: carbocycles and heterocycles with oxygen" <i>Curr. Org. Chem.</i> 2005 , 9, 14, 1287. http://dx.doi.org/10.2174/1385272054880197			2.1
40	Lar, C.; Moisă, M.E.; Bogdan, E.; Terec, A.* ; Hădade, N.D.; Grosu, I.; David, L.; Paizs, C.; Grosu, I.G. "Geländer" macrocycles: Synthesis, chirality and racemisation barriers" <i>Tetrahedron Lett.</i> 2019 , 60, 335. http://dx.doi.org/10.1016/j.tetlet.2018.12.047		da	1.5
41	Lar, C.; Roiban, G.-D.; Crășneanu, R. M.; Mihalca, I.; Bogdan, E.; Terec, A.* ; Grosu, I. "Synthesis and Photophysical properties of some 6,6"-Functionalized Terpyridine Derivatives" <i>Cent. Eur. J. Chem.</i> 2011 , 9(2), 218. http://dx.doi.org/10.2478/s11532-010-0146-4		da	1.5
42	Terec, A. ; Grosu, I.; Plé, G.; Muntean, L.; Mager, S. "Synthesis, structural analysis and reactivity of 1,3-oxathiane derivatives" <i>Heterocycles</i> 2003 , 60, 1477.	da		0.7
43	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. <i>Rev. Roum. Chim.</i> 2025 , 70 (5-6), 287. http://dx.doi.org/10.33224/rch.2025.70.5-6.05		da	0.6
44	Crișan, A. P.; Crăciun, A.-M.; Mihalache, I.; Focșan, M.; Socaci, C.; Maniu, D.; Aștilean, S.; Veca, L. M.; Terec, A.* "Surface passivation of carbon nanoparticles with 1,2-phenylenediamine towards photoluminescent carbon dots" <i>Rev. Roum. Chim.</i> 2020 , 65 (6), 559. http://dx.doi.org/10.33224/rch.2020.65.6.05		da	0.6
45	Terec, A.* ; Bogdan, E.; Cismaș, C.; Grosu, I "Selective Bromination Reaction of Some Bis(1,3-Dioxan-2-Yl)Alkanes" <i>Rev. Roum. Chim.</i> , 2010 , 55(11-12), 905.		da	0.6
46	Terec, A. ; Bogdan E.; David L.; Mager S.; Grosu I. "Synthesis and Stereochemistry of Some Bis(1,3-dioxane-2-yl)alkanes" <i>Rev. Roum. Chim.</i> 2007 , 52, 59.	da		0.6
47	Bogoșel, D.-F.; Crișan, A. P.; Pop, A.; Terec, A.* ; Grosu, I. Investigation of Optical Properties and Solid-State Structure of Thiophene-Containing Triarylamine Derivatives. <i>Stud. Univ. Babeș-Bolyai Chem.</i> 2025 , 7. http://dx.doi.org/10.24193/subbchem.2025.2.01		da	0.5
48	Căta, L.; Grosu, I.G.; Miclăuș, M.; Hădade, N. D.; Grosu, I.; Terec, A.* "Halogen-bonded supramolecular architectures involving 2,7-dipyridylfluorene and 1,3,5-trifluoro-2,4,6-		da	0.5

	triiodobenzene tectons – a spectacular evolution from catemers to 2D halogen bond organic frameworks (XBOF)” <i>Stud. Univ. “Babeş-Bolyai”, Chem.</i> 2022 , 67 (2), 193. http://dx.doi.org/10.24193/subbchem.2022.2.12			
49	Crişan, C. V.; Hădade, N. D.; Grosu, I.; Crişan, A. P.; Terec, A.* “A straightforward synthesis of novel 1,3,5-triazine-based macrocyclic scaffolds” <i>Stud. Univ. “Babeş-Bolyai”, Chem.</i> 2020 , 65 (3), 171. http://dx.doi.org/10.24193/subbchem.2020.3.13		da	0.5
50	Frîncu, A. M.; Căta, L.; Bălăceanu, D.; Grosu, I.; Crişan, 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. <i>Molbank</i> 2025 , 3, M2038. http://dx.doi.org/10.3390/M2038		da	0.4

Criterii suplimentare ale Şcolii Doctorale de Chimie pentru abilitare:

a) Granturi de cercetare câştigate prin competiţiei naţionale şi internaţionale, ca director de proiect şi coordonator de echipă în consorţiu

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

b) Cărţi şi capitole de carte

Bogdan, E.; Hădade, N.; Socaci, C.; **Terec A.** “Reacţii de cuplare în chimia organică – de la teorie la aplicaţii”, Presa Universitară Clujeană, Cluj-Napoca, 2013.