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Fișa de îndeplinire a standardelor minimale stabilite de CNATDCU

pentru Abilitare, Comisia Chimie

Dr. Dorina Casoni

Standarde*	**Minimale (cumulative) CNATCDU**	**Indeplinite de candidat**	**Indeplinirea criteriilor CNATCDU (%)**
a) $\mathbf{N_{max}}$ = primele maxim N lucrări, organizate în ordinea descrescătoare a factorilor de impact a revistelor în care au fost publicate	**50**	**50**	
b) **FIC =** factor de impact cumulat minimal al revistelor în care s-au publicat lucrările în cauză	**100**	**128.6**	**129%**
c) $\mathbf{FIC_D}$ = factor de impact cumulat minimal din publicații din domeniile de cercetare declarate.	**70**	**128.6**	**184%**
d) $\mathbf{FIC_{AP}}$ = factor de impact cumulat minimal din publicații în calitate de autor principal (prim-autor și autor de corespondență)**.**	**50**	**50.8**	**102%**
e) $\mathbf{FIC_{AC}}$ = factor de impact cumulat minimal din publicații în calitate de autor de corespondență	**25**	**27.7**	**111%**
f) **h index**	**13**	**14**	

*** Categorie Profesor / CSI / Abilitare -** în conformitate cu Anexa nr. 4 - COMISIA CHIMIE din Anexa la Ordinul ministrului Educației Naționale și Cercetării Științifice nr. 6.129/20.12.2016 privind aprobarea standardelor minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior, publicat in Monitorul Oficial, Partea I, nr. 123 din 15 februarie 2017.

Lista celor N_{max} = 50 lucrări selectate

Nr. Crt	Date articol	Prim autor (AP)	Autor corespondență (AC)	Factor impact (IF)
1	Scrob T., Covaci E., Hosu A., Tanaselia C., **Casoni D.**, Torok A.I., Frentiu T., Cimpoiu, C., Effect of in vitro simulated gastrointestinal digestion on some nutritional characteristics of several dried fruits, ***Food Chemistry*** 385 (**2022**) 132713. https://doi.org/10.1016/j.foodchem.2022.132713			9.8
2	Scrob T., Varodi S.M ., Vintila G. A., **Casoni D.**, Cimpoiu C., Estimation of degradation kinetics of bioactive compounds in several lingonberry jams as affected by different sweeteners and storage conditions, ***Food Chemistry X*** 16 (**2022**) 100471 . https://doi.org/10.1016/j.fochx.2022.100471			8.2
3	Büker E., Kayabas Avsar A., Yildirim E., **Casoni D**., Cobzac S.C.A.., Cimpoiu, C., Unveiling the Potential of Three Endemic *Gypsophila* L. (Caryophyllaceae) Taxa as Promising Carbonic Anhydrase Inhibitors-Bio-Metabolic Profiles and In Vitro Evaluation of Enzyme Inhibition and Antioxidant Capacity**,** ***Antioxidants*** 14 (**2025**) 219. https://doi.org/10.3390/antiox14020219			6.6
4	Sima I. A., **Casoni D**., Sârbu C., High sensitive and selective HPTLC method assisted by digital image processing for simultaneous determination of catecholamines and related drugs, ***Talanta*** 114 (**2013**) 117-123. http://dx.doi.org/10.1016/j.talanta.2013.03.058			6.1
5	Apan A., **Casoni D.**, Leonte D., Pop C., Iaru I., Mogos C., Zaharia V., Heterocycles 52: The Drug-Likeness Analysis of Anti-Inflammatory Thiazolo[3,2-b][1,2,4]triazole and Imidazo[2,1-b][1,3,4]thiadiazole Derivatives, ***Pharmaceuticals*** 17 (**2024**) 295. https://doi.org/10.3390/ph17030295			4.8
6	Büker E., Kiran F., Taliboglu S., **Casoni D**., Ipekel, A., In Vitro Evaluation of Olive Leaf (Olea europaea L.) Extract as a Functional Food Component in Combination with Chemotherapeutics in MCF-7 Breast Cancer Cells, ***Pharmaceuticals*** 18 (**2025**) 965. https://doi.org/10.3390/ph18070965		DA	4.8
7	Cobzac S.C.A., Olah N. K., **Casoni D**., Application of HPTLC Multiwavelength Imaging and Color Scale Fingerprinting Approach Combined with Multivariate Chemometric Methods for Medicinal Plant Clustering According to Their Species, ***Molecules*** *26*(23) (**2021**) 7225. https://doi.org/10.3390/molecules26237225		DA	4.6
8	Torok A. I., Levei E. A, Constantin S., Moldovan O. T., Senila M., Cadar O., **Casoni D**., Angyus S. B, Tanaselia			4.6

	C., Covaci E., Frentiu T., Application of inductively coupled plasma spectrometric techniques and multivariate statistical analysis in the hydrogeochemical profiling of caves—Case study Cloșani, Romania, ***Molecules*** *26*(22) (**2021**) 6788 https://doi.org/10.3390/molecules26226788			
9	**Casoni D.,** Simion I.M., Sârbu C., A comprehensive classification of edible oils according to their radical scavenging spectral profile evaluated by advanced chemometrics, ***Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*** 213 (**2019**) 204-209. https://doi.org/10.1016/j.saa.2019.01.065	DA		4.6
10	**Casoni D**., Sârbu, C., Comprehensive evaluation of antioxidant activity: A chemometric approach using principal component analysis, ***Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*** 118 (**2014**) 343–348. http://dx.doi.org/10.1016/j.saa.2013.08.094	DA		4.6
11	Baumli J., Antal N., **Casoni D.,** Cimpoiu C., Use of Secondary Metabolites Profiling and Antioxidant Activity to Unravel the Differences between Two Species of Nettle, ***Plants*** 12 (**2023**) 3233. https://doi.org/10.3390/plants12183233			4.1
12	Silveșan L., Cimpoiu C., **Casoni D**., A new HPTLC-image analysis approach for assessing interactions and antioxidant profiles of adrenergic drugs, ***Journal of Chromatography A*** 1772 (**2026**) 46674. https://doi.org/10.1016/j.chroma.2026.466774		DA	4.0
13	Sârbu C., Nascu-Briciu R. D., **Casoni D.,** Kot-Wasik A., Wasik A., Namiesnik J. Chromatographic lipophilicity determination using large volume injections of the solvents non-miscible with the mobile phase, ***Journal of Chromatography A*** 1266 (**2012)** 53-60. http://dx.doi.org/10.1016/j.chroma.2012.10.007			4.0
14	Büker E., **Casoni D**., Cobzac S. C. A, Bilici İ., Kayır Ö., Doğan H., LC-MS/MS characterization, biological activity, and carbonic anhydrase inhibitory potential of five medicinal plant extracts from Romania and Türkiye, ***Scientific Reports*** 16 (**2026**) 7023; https://doi.org/10.1038/s41598-026-38419-5			3.9
15	Torok A.I., **Casoni D**., Senila M., Tanaselia C., Covaci E., Hoaghia M.-A., Neag E., Cadar O., Levei,E. A., Arghir R., Moldovan O. T., Constantin S., Frentiu T., Spatial variability and hydro/geochemical profiling of the elemental composition of mineral deposits and drip water from caves using unsupervised chemometric modelling, ***Chemical Geology*** 646 (**2024**) 121903. https://doi.org/10.1016/j.chemgeo.2023.121903			3.6
16	Dragan O., Tomuta I., **Casoni D**., Sarbu C., Campian R., Frentiu T., Influence of mixed additives on the			3.6

	physicochemical properties of a 5.25% sodium hypochlorite solution: an unsupervised multivariate statistical approach**,** ***Journal of Endodontics*** 44 (2), (2018) 280-285. https://doi.org/10.1016/j.joen.2017.08.006			
17	Simion I.M., **Casoni D.**, Sârbu C., Classification of Romanian medicinal plant extracts according to the therapeutic effects using thin layer chromatography and robust chemometrics, ***Journal of Pharmaceutical and Biomedical Analysis*** 163 (2019) 137-143. https://doi.org/10.1016/j.jpba.2018.09.047			3.1
18	**Casoni D.**, Cobzac S.C.A., Simion I.M., Feasibility of UV-Vis spectroscopy combined with pattern recognition techniques to authenticate the medicinal plant material from different geographical areas, ***Journal of Analytical Science and Technology*** 15 (**2024**) 17. https://doi.org/10.1186/s40543-024-00428-2		DA	2.8
19	Simion I. M., **Casoni D**., Sârbu C., Multivariate color scale image analysis–thin layer chromatography for comprehensive evaluation of complex samples fingerprint, ***Journal of Chromatography B*** 1170 (2021) 122590. https://doi.org/10.1016/j.jchromb.2021.122590		DA	2.8
20	Coman F. M., Leonte D., Toma A., **Casoni D**., Vlase L., Zaharia V., Heterocycles 51: Liphophilicity investigation of some thiazole chalcones and aurones by experimental and theoretical methods, ***Journal of Separation Science*** 43 (**2020**) 2784–2793. https://doi.org/10.1002/jssc.202000262			2.8
21	**Casoni D**., Sima I. A., Sârbu, C., Thin-layer chromatography-an image processing method for the determination of acidic catecholamine metabolites, ***Journal of Separation Science*** 37 (**2014**) 2675–2681. https://doi.org/10.1002/jssc.201400550	DA		2.8
22	**Casoni D**., Sârbu C., Comprehensive evaluation of lipophilicity of biogenic amines and related compounds using different chemically bonded phases and various descriptors, ***Journal of Separation Science*** 35 (**2012**) 915-921. https://doi.org/10.1002/jssc.201101032	DA		2.8
23	**Casoni D**, Petre J., David V., Sârbu C, Prediction of pesticides chromatographic lipophilicity from the computational molecular descriptors, ***Journal of Separation Science*** 34 (**2011**) 247–254. https://doi.org/10.1002/jssc.201000636	DA		2.8
24	Avşar A. K., Büker E., Yildirim E., **Casoni D.,** Cobzac S. C. A., Neuroprotective and Renoprotective Potential of a Hydroethanolic Extract From the Aerial Parts of *Mattiastrum paphlagonicum* Bornm.		DA	2.5

	(Boraginaceae), ***Chemistry & Biodiversity*** 23 (**2026)** e03371. https://doi.org/10.1002/cbdv.202503371			
25	Turdean, G.L. , **Casoni D.**, Sârbu, C., Structure-electrochemical properties correlations of some phenol derivatives investigated by electrochemical techniques, ***Journal of the Iranian Chemical Society*** 13 (2016) 945-956. https://doi.org/10.1007/s13738-016-0810-5			2.3
26	Sârbu C., **Casoni D**., Comprehensive evaluation of biogenic amines and related drugs antiradical activity using reactive 2,2-diphenyl-1-picrylhydrazyl (DPPH) radical, ***Central European Journal of Chemistry*** (***Open Chemistry***) 11 (**2013**) 679-688. https://doi.org/10.2478/s11532-013-0210-y		DA	1.9
27	Toma A., Hapău D., **Casoni D.,** Zaharia V., Heterocycles 33: Lipophilicity of a new class of thioethers estimated by Reversed-PhaseThin-Layer Chromatography and different computational methods, ***Journal of Chromatographic Science*** 52 **(2014)** 1302-1307. https://doi.org/10.1093/chromsci/bmt210			1.3
28	Cobzac S.C.A, **Casoni D**., Sârbu C., Lipophilicity of amine neurotransmitter precursors, metabolites and related drugs estimated on various TLC plates, ***Journal of Chromatographic Science*** 52 (**2014**) 1095–1103. https://doi.org/10.1093/chromsci/bmt155			1.3
29	Büker E., **Casoni D**., Szasz M.C, Cobzac S.C.A., New method for rapid detection and simultaneous determination of prohibited adrenergic drugs in sports using thin layer chromatography and image processing, ***Journal of Liquid Chromatography & Related Technolog***, 47 (**2024**) 1-8. https://doi.org/10.1080/10826076.2024.2386320		DA	1.2
30	Szasz M., **Casoni D.,** Cimpoiu C., Study on binding affinity profile, bioactivity, and lipophilicity of selected antipsychotic drugs, ***Journal of Liquid Chromatography & Related Technologies*** 48(6–10) (**2025**) 138–143. https://doi.org/10.1080/10826076.2023.2216780			1.2
31	Simion I.M., **Casoni D.,** Sârbu C., Characterization and classification of medicinal plants according to their antioxidant profile estimated by thin layer chromatography assisted by chemometric expertise, ***Journal of Liquid Chromatography & Related Technologies*** 41(6) (**2018**) 342-348. https://doi.org/10.1080/10826076.2018.1448692			1.2
32	Caiali E., **Casoni D**., Petre I., David V., Sârbu C., Parabens lipophilicity determination with mobile phases containing low and medium hydrophobic			1.2

	alcohols, ***Journal of Liquid Chromatography & Related Technologies*** 37 (**2014**) 2287–2301. https://doi.org/10.1080/10826076.2013.830270			
33	Sima I. A., **Casoni D**., Sârbu C., Simultaneous determination of carbidopa and levodopa using new TLC method and a free as detection reagent, ***Journal of Liquid Chromatography & Related Technologies*** 36 (**2013**) 2395-2404. https://doi.org/10.1080/10826076.2013.790765			1.2
34	Cobzac S.C.A, Casoni D., Fazakas A. L., Sârbu C, Determination of food synthetic dyes in powder for jelly desserts using slit-scanning densitometry and image analysis methods, ***Journal of Liquid Chromatography & Related Technologies*** 35 (**2012**) 1423-1443. https://doi.org/10.1080/10826076.2012.676875			1.2
35	**Casoni D.**, Tuhutiu I.A., Sârbu C., Simultaneous determination of parabens in pharmaceutical preparations using High-Performance Thin-Layer Chromatography and image analysis, ***Journal of Liquid Chromatography & Related Technologies*** 34 (**2011**) 805-816. http://dx.doi.org/10.1080/10826076.2011.571141	DA		1.2
36	**Casoni D**., Sârbu, C., Chromatographic approach for the evaluation of radical-scavenging activity using a new time-monitoring image analysis method, ***Journal of Planar Chromatography - Modern TLC*** 29 (**2016**) 299-305. https://doi.org/10.1556/1006.2016.29.4.8	DA		1.1
37	Cobzac S.C.A, **Casoni D**., Pop D., Tartrazine determination from mustard sample by TLC-Photodensitometry and TLC-Digital processing of images, ***Journal of Planar Chromatography - Modern TLC*** 25 (2012) 542-547. https://doi.org/10.1556/JPC.25.2012.6.9			1.1
38	**Casoni D**., Ponta M., Bibica M.N., Lazar I. V., Frentiu T., A free non-spectral interferences method based on inductively coupled plasma optical emission spectrometry for multielemental determination in multimineral/multivitamin preparations, ***Revue Roumaine de Chimie*** 65(6) (**2020**) 573-578. (DOI: 10.33224/rrch.2020.65.6.07) https://revroum.lew.ro/wp-content/uploads/2020/06/Art%2007.pdf	DA		0.6
39	Toma A., Leonte D., Zaharia V., Sârbu C., **Casoni D**. Heterocycles 37. Lipophilicity of new polyheterocyclic schiff bases and mannich bases estimated by thin-layer chromatography and computational methods, ***Revue Roumaine de Chimie***, 60 (**2015**) 677-687. https://revroum.lew.ro/wp-content/uploads/2015/7/Art%2006.pdf		DA	0.6

40	Sima I. A., **Casoni D**., Sârbu C., *Rapid screening method for the diagnosis of adrenal tumors,* ***Revue Roumaine de Chimie*** 59 (**2014**) 965-970. https://revroum.lew.ro/wp-content/uploads/2014/11/Art%2008.pdf			0.6
41	**Casoni D**., Sârbu C, *Modeling of food preservatives chromatographic lipophilicity applying genetic algorithm and multiple linear regression*, ***Revue Roumaine de Chimie*** 56(4) (**2011**) 381-390. https://revroum.lew.ro/wp-content/uploads/2011/RRCh_4_2011/Art%2011.pdf	DA		0.6
42	**Casoni D.,** Simion I. M., Cobzac S.C.A., Kiraly A.G., *Development of a new micro-HPTLC protocol for total antioxidant potential determination of redox-active drugs*, ***Studia Universitatis Babes-Bolyai, Chemia*** 67(4) (**2022**) 235-247. https://doi.org/10.24193/subbchem.2022.4.15		DA	0.5
43	Cobzac S.C.A., Frentiu T., Balabanova B., Ruzdik N., **Casoni D**., *Regional pattern and characteristics of essential elements in several medicinal plants using spectrometric methods combined with multivariate statistical approaches,* ***Studia Universitatis Babes-Bolyai, Chemia*** LXVI 2 (**2021**) 9-22. https://doi.org/10.24193/subbchem.2021.02.01		DA	0.5
44	**Casoni D**., Badea M., Cobzac S.C.A, Fish roe sample preparation for synthetic foor dyes determination by HPTLC, ***Studia Universitatis Babes-Bolyai, Chemia*** LXVI 2 (**2021**) 265-275. https://doi.org/10.24193/subbchem.2021.02.23	DA		0.5
45	**Casoni D**., Badiu R. R., Frentiu T., Spectrophotometric determination and assessment of potential health risk of nitrite from meat and processed meat products*,* ***Studia Universitatis Babes-Bolyai, Chemia*** LXIV 2, Tom I (**2019**) 265-277. https://doi.org/10.24193/subbchem.2019.2.22		DA	0.5
46	**Casoni D**., Badea M, Bros I., Cobzac S. C. A., Investigation on image processing parameters for plate evaluation in TLC analysis of mycotoxins, ***Studia Universitatis Babes-Bolyai*****, Chemia** LXII (3) (**2017**) 89-https://doi.org/10.24193/subbchem.2017.3.07	DA		0.5
47	**Casoni D**., Olah N., Soran L., Cobzac S.C.A., Comparison of different extraction techniques for the evaluation of polyphenols content in Summer Savory extracts*,* ***Studia Universitatis Babeș-Bolyai Chemia*** LXII (3) (**2017**) 45-56 https://doi.org/10.24193/subbchem.2017.3.04	DA		0.5
48	**Casoni D**., Boldan A., Cobzac S. C., TLC-densitometric determination of synthetic food colorants from pharmaceutical powders, ***Studia Universitatis Babes-Bolyai, Chemia*** 57(1) (**2012**) 83-92.	DA		0.5

	https://chem.ubbcluj.ro/~studiachemia/issues/chemia2006_2015/Chemia2012_1.pdf			
49	Tuhutiu I. A, **Casoni,** D., Sârbu, C., *Comparative study of different TLC-image analysis methods for quantitative evaluation of parabens in pharmaceutical suspensions*, ***Studia Universitatis Babes Bolyai, Chemia*** (LVII) (2) (**2012**) 83-93. https://chem.ubbcluj.ro/~studiachemia/issues/chemia2006_2015/Chemia2012_2.pdf		DA	0.5
50	**Casoni D**., Sârbu C., *Comparative study of different oils and fats impregnated Thin-Layer Chromatographic Layers for the amino-acids lipophilicity estimation*, ***Studia Universitatis Babes-Bolyai, Chemia*** LVI, 1 (**2011**) 45-61 https://chem.ubbcluj.ro/~studiachemia/issues/chemia2006_2015/Chemia2011_1.pdf		DA	0.5

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