UNIVERSITATEA NAȚIONALĂ DE ȘTIINȚĂ ȘI TEHNOLOGIE POLITEHNICA BUCUREȘTI

FIŞA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR DE PREZENTARE LA OBȚINEREA ATESTATULUI DE ABILITARE

Candidat: Florentina Laura CHIRIAC

Facultatea de Inginerie Chimică și Biotehnologii, UNSTPB

Conditii	Indeplinire conditii	
A. Doctor	**Diploma de Doctor în domeniul CHIMIE, nr. 750 din 02.07.2020 emisa de Universitatea din Bucureşti in baza Ordinului Ministrului Educatiei Nationale nr. 4021 din 07.04.2020**	
B. Îndeplinirea standardelor minime naționale	**Standarde indeplinite, conform Comisiei CNATDCU Nr. 18, Ingineria Mediului** **Anexată: Fişa de calcul şi de susţinere a îndeplinirii standardelor minimale specifice domeniului, în acord cu realizarile mentionate:**	
Standarde minimale şi obligatorii	**Minim prevăzut**	**Realizat**
Număr total de articole în reviste ISI, N_T	**≥ 25**	**42**
număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență), NP	**≥ 10**	**29**
NP cu FI > 1	**≥ 6**	**25**
Factor de impact cumulat, FIC	**≥ 20**	**94**
Numarul total de citari (din baza de date Clarivate, fara autocitari), NC	**≥ 100**	**502**
C. Atestarea studiilor	**Diplomă de Licență,** Titlul de Chimist, nr. 5028 din 07.12.2011 emisa de Universitatea din Bucuresti	
	Diploma Master, Specializarea Chimia Materialelor Avansate nr. 8776 din 19.09.2013 emisa de Universitatea din Bucuresti	
	Ordinul de Ministru nr. 21275 din 30.07.2024 privind acordarea titlului stiintific de CSI	

Subsemnata, Florentina Laura CHIRIAC, cercetător științific la Institutul Național de Cercetare-Dezvoltare pentru Ecologie Industrială – ECOIND, candidată la concursul de abilitare în domeniul Ingineria Mediului, arondat Comisiei de Specialitate CNATDCU nr. 18 – Ingineria Mediului [Ordinul ministrului Educației Naționale și Cercetării Științifice nr. 6.129/2016 privind aprobarea standardelor minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior], declar pe propria răspundere, cunoscând prevederile art. 292 privind falsul în declarații din Codul Penal (Legea nr. 286/2009), că sunt îndeplinite toate standardele minimale prevăzute de Metodologia UPB in momentul inscrerii la concurs. De asemenea, susțin veridicitatea informațiilor prezentate în dosar și în materialul de mai sus. Lucrările considerate eligibile ca fiind indexate în Baza ISI Clarivate sunt vizibile, la această dată, în dreptul numelui meu.

ÎN CONTINUARE: Fișa de calcul și de susținere a îndeplinirii standardelor minimale specifice domeniului, în acord cu realizările menționate.

Candidat, **Data: 14.07.2026**

Dr. Chim. CS I Florentina Laura CHIRIAC

Fisa verificare Standarde – Dr. Chim. Florentina Laura CHIRIAC

Nr. crt.	Articol ISI	Autor Principal	Autor principal la articol cu FI>1	Factor de impact ISI / 2025	Tip autor	Numarul total de autori	FIC	Nr citari (fara autocitari)*
1	**Chiriac, F.L.**, Paun, I., Pirvu, F., Pascu, L.F., Galaon, T., Occurrence and Fate of Bisphenol A and its Congeners in Two Wastewater Treatment Plants and Receiving Surface Waters from Romania. *Environmental Toxicology and Chemistry*, **2021**, 40 (2), 435–446. https://doi.org/10.1002/etc.4929. WOS:000599750400001	**X**	**X**	**3.6**	AP	5	3.60	23
2	Tătăruş, A., Simonescu, C.M., Nechifor, G., Scutariu, R., Iancu, V.I., **Chiriac, L.F.**, Development of a new high-performance liquid chromatography method with diode array detector (HPLC-DAD) for the detection of congo red and methyl orange dyes from synthetic water solutions. *University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science*, **2021**, 83(4), 85-94. WOS:000731356100008	-	-	**0.5**	Co	6	0.08	1
3	Iancu, V.I., Scutariu, R.E., **Chiriac, F.L.,** Radu, G.L., Sensitive detection of antidiabetic compounds and one degradation product in wastewater samples by a new SPE-LC-MS/MS method. *Journal of Environmental Science and Health, Part A- Toxic/Hazardous Substances & Environmental Engineering*, **2021**, 56, 310-323. https://doi.org/10.1080/10934529.2021.1873671. WOS:000609588200001.	-	-	**2.0**	Co	4	0.50	7
4	**Chiriac, F.L.,** Paun, I., Pirvu, F., Iancu, V.I., Galaon, T., Distribution, removal efficiencies and environmental risk assessment of benzophenone and salicylate UV filters in WWTPs and surface waters from Romania. *New Journal of Chemistry*, **2021**, 45(5), 2478-2487. https://doi.org/10.1039/d0nj05214k. WOS:000616688400016	**X**	**X**	**2.6**	AP	5	2.60	30
5	**Chiriac, F.L.**, Pirvu, F., Paun, I., Investigation of endocrine disruptor pollutants and their metabolites along the Romanian Black Sea Coast: occurrence, distribution and risk assessment. *Environmental Toxicology and Pharmacology*, **2021**, 86, 103673. https://doi.org/10.1016/j.etap.2021.103673. WOS:000675852700004	**X**	**X**	**4.6**	AP	3	4.60	30

6	Constantin, M.A., **Chiriac, F.L.**, Gheorghe, S., Constantin, L.A., Degradation of Carbamazepine from Aqueous Solutions via TiO2-Assisted Photo Catalyze. *Toxics,* **2022**, 10(4), 168. https://doi.org/10.3390/toxics10040168. WOS:000785421800001	-	-	**4.9**	Co	4	1.23	12
7	**Chiriac, F.L.**, Stoica, C., Scutariu, R.E., Pirvu, F., Paun, I., Iancu, V., Galaon, T., Nita-Lazar, M., Occurrence and fate of Adsorbable Organic Halogens (AOX) in two WWTPs from Romania. *Archives of Environmental Contamination and Toxicology*, **2022**, 82 (4): 592-601. https://doi.org/10.1007/s00244-022-00923-w. WOS:000784030500001	**X**	**X**	**2.1**	AP	8	2.10	2
8	**Chiriac, F.L.**, Lucaciu, I.E., Paun, I., Pirvu, F., Gheorghe, S., In Vivo Bioconcentration, Distribution and Metabolization of Benzophenone-3 (BP-3) by Cyprinus carpio (European Carp). *Foods*, **2022**, 11(11), 1627. https://doi.org/10.3390/foods11111627. WOS:000808643300001	**X**	**X**	**6.0**	AP	5	6.00	10
9	Paun, I., Pirvu, F., Iancu, V.I., **Chiriac, F.L.**, Occurrence and Transport of Isothiazolinone-Type Biocides from Commercial Products to Aquatic Environment and Environmental Risk Assessment. *International Journal of Environmental Research and Public Health,* **2022**, 19(13), 7777. https://doi.org/10.3390/ijerph19137777. WOS:000823650600001	**X**	-	-	C	1		20
10	Vasilache, N., Diacu, E., Modrogan, C., **Chiriac, F.L.**, Paun, I.C., Tenea, A.G., Pirvu, F., Vasile, G.G., Groundwater Quality Affected by the Pyrite Ash Waste and Fertilizers in Valea Calugareasca, Romania. *Water,* **2022**, 14(13). https://doi.org/10.3390/w14132022. WOS:000822127000001	-	-	**3.5**	Co	8	0.44	4
11	**Chiriac, F.L.**, Stoica, C., Paun, I., Pirvu, F., Galaon, T., Nita-Lazar, M. Biodegradation of two organic ultraviolet-filters by single bacterial strains. *International Journal of Environmental Science And Technology*. ***2023***, 20(8), 9065-9076. https://doi.org/10.1007/s13762-022-04613-x. WOS:000876215900002	**X**	**X**	**3.4**	AP	6	3.40	5
12	Petre V.A., **Chiriac F.L.**, Lucaciu I.E., Paun I., Pirvu F., Iancu V.I., Novac L., Gheorghe S., Tissue Bioconcentration Pattern and Biotransformation of Per-Fluorooctanoic Acid (PFOA) in Cyprinus carpio (European Carp)—An Extensive In Vivo	-	-	**6.0**	Co	8	0.75	11

	Study. *Foods*, **2023**, 12(7), 142. https://doi.org/10.3390/foods12071423. WOS:000968481600001							
13	**Chiriac F.L**., Pirvu F., Paun I., Petre V.A., Perfluoroalkyl substances in Romanian wastewater treatment plants: Transfer to surface waters, environmental and human risk assessment. *Science of the Total Environment,* **2023**, 892, 164576. https://doi.org/10.1016/j.scitotenv.2023.164576. WOS:001023799200001	**X**	**-**	**8 (2024)**	AP	4	-	33
14	Marsolea A.C., **Chiriac F.L.**, Orbeci C., Bobiric L., Bobiric C., Migration and leaching behaviour of Bisphenol A from polyethylene terephthalate water bottles under different storage conditions. *International Journal of Food Science and Technology*, **2023**. https://doi.org/10.1111/ijfs.16583. WOS:001023588100001	-	-	**3.3**	Co	5	0.66	9
15	**Chiriac, F.L.,** Stoica, C., Iftode, C., Pirvu, F., Petre, V.A., Paun, I., Pascu, L.F., Vasile, G.G., Nita-Lazar, M., Bacterial biodegradation of perfluorooctanoic acid (PFOA) and perfluorosulfonic acid (PFOS) using pure pseudomonas strains. *Sustainability* **2023**, 15(18), 14000. https://doi.org/10.3390/su151814000. WOS:001074050400001	**X**	**X**	**4.1**	AP	9	4.10	51
16	Serban, G.V., Iancu, V.I., Dinu, C., Tenea, A., Vasilache, N., Cristea, I., Niculescu, M., Ionescu, I., **Chiriac, F.L.**, Removal efficiency and adsorption kinetics of methyl orange from wastewater by commercial activated carbon. *Sustainability*, **2023**, 15(17), 12939. https://doi.org/10.3390/su151712939. WOS:001060632700001	-	-	**4.1**	Co	9	0.46	79
17	Dura, A.M., Stefan, D.S., **Chiriac, F.L**., Trusca, R., Nicoara, A.I., Stefan, M. Clinoptilolite—A Sustainable Material for the Removal of Bisphenol A from Water. *Sustainability* **2023**, 15(17), 13253. https://doi.org/10.3390/su151713253. WOS:001060609400001	-	-	**4.1**	Co	6	0.68	12
18	Pahontu (Dura), A.M., Stefan, D.S., **Chiriac, F.L.**, Calinescu, I., Dancila, A.M., Stefan, M., Enhanced Degradation of Bisphenol A via Ultrasound, Assisted by Chemical Treatment. *Sustainability* **2023**, 15(19), 14058. https://doi.org/10.3390/su151914058. WOS:001159286900001	-	-	**4.1**	Co	6	0.68	7

19	Gheorghe, S., Iancu, V.I., Ionescu, I.A., Pirvu, F., Paun, I.C., Pascu, L.F., **Chiriac, F.L.**, Adsorption of Sunscreen Compounds from Wastewater Using Commercial Activated Carbon: Detailed Kinetic and Thermodynamic Analyses. *Water* **2023**, 15 (23), 4190. https://doi.org/10.3390/w15234190. WOS:001119126300001	X	X	**3.5**	2C	7	1.75	6
20	Iancu, V.I., **Chiriac, F.L.**, Paun, I., Pirvu, F., Dinu, C., Kim, L., Pascu, L.F., Niculecu, M., Occurrence and distribution of azole antifungal agents in eight urban Romanian wastewater treatment plants. *Science of the Total Environment* **2024**, 920, 170898. https://doi.org/10.1016/j.scitotenv.2024.170898. WOS:001196831100001	-	-	**8 (2024)**	Co	8	-	20
21	Paun, I., Pirvu, F., Iancu, V.I., Niculescu, M., Pascu, L.F., **Chiriac, F.L.**, An Initial Survey on Occurrence, Fate, and Environmental Risk Assessment of Organophosphate Flame Retardants in Romanian Waterways. *Journal of Xenobiotics* **2024**, 14(1), 31-50. https://doi.org/10.3390/jox14010003. WOS:001192516100001	X	X	**4.6**	2C	6	2.30	6
22	Petre, V.A., Cristea, N.I., Cojocaru, V.C., Pascu, L.F., **Chiriac, F.L.** Analysis of Volatile Flavor Compounds in Four Commercial Beverages Using Static Headspace Gas Chromatography/Mass Spectrometry: A Qualitative Approach. *Applied Science* **2024**, 14(5), 1910. https://doi.org/10.3390/app14051910. WOS:001182541300001	**X**	**X**	**2.9**	2C	5	1.45	8
23	**Chiriac, F.L.**, Paun, I., Iancu, V.I., Pirvu, F., Dinu, C., Niculescu, M., Petre, V.A. Fate of pharmaceutical residue in two Romanian rivers receiving treated water: occurrence, distribution and risk assessment. *Science of the Total Environment* **2024**, 171359. https://doi.org/10.1016/j.scitotenv.2024.171359. WOS:001200457700001	**X**	-	**8 (2024)**	AP	7	-	7
24	Pirvu, F., Paun, I., Cimpean, I.A., Pascu, L.F., **Chiriac, F.L.** Presence and Distribution of Sun-Blocking Agents in the Danube River: Implications for Aquatic Ecosystem Health. *Water* **2024**, 16(7), 945. https://doi.org/10.3390/w16070945. WOS:001201035200001	**X**	**X**	**3.5**	2C	5	1.75	3
25	Paun, I., Pascu, L.F., Iancu, V.I., Pirvu, F., Galaon, T., **Chiriac, F.L.** Simultaneous Determination of 17 Phenolic Compounds	**X**	**X**	**4.3**	3C	6	1.43	8

	in Surface Water and Wastewater Matrices Using an HPLC-DAD Method. *Environments* **2024**, 11, 117. https://doi.org/10.3390/environments11060117. WOS:001256726000001							
26	Tenea, A.G., Dinu, C., Rus, P.A., Ionescu, I.A., Gheorghe, S., Iancu, V.I., Vasile, G.G., Pascu, L.F., **Chiriac, F.L.** Exploring adsorption dynamics of heavy metals onto varied commercial microplastic substrates: Isothermal models and kinetics analysis. *Heliyon* **2024**, 10, e35364. https://doi.org/10.1016/j.heliyon.2024.e35364. WOS:001286659400001	**X**	**X**	**3.6 (2024)**	3C	9	-	79
27	Cojocaru, V.C.; Cristea, I.N.; Paris, I.A.; Ionescu, I.A.; **Chiriac, F.L.** Exploring Sustainable Solutions: Dynamic Adsorption, Isotherm Models, and Kinetics of Organic Contaminants on Polystyrene Microplastics. *Sustainability* **2024**, 16, 7743. https://doi.org/10.3390/su16177743. WOS:001311624900001	**X**	**X**	**4.1**	2C	5	2.05	14
28	Paun, I., Pirvu, F., **Chiriac F.L.,** Iancu, V.I., Pacu, L.F., Organophosphate flame retardants in Romania coastline: Occurrence, faith and environmental risk. *Marine Pollution Bulletin*, **2024**, 11682. https://doi.org/10.1016/j.marpolbul.2024.116982. WOS:001322646100001	**X**	**X**	**4.9**	3C	5	1.63	8
29	Teodorescu, G.; Croitoru, A.M.; Alexandra, D.; **Chiriac, F.L.;** Butean, C.; Ionita, F.; Stefan, D.S. Preliminary study of the behavior of packaging in contact with various aqueous environments. University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science **2025**, 87(4), 275-288. WOS:001644202500020	-	-	**0.5**	Co	7	0.07	0
30	Scutariu, R.E.; Petre, V.A.; Tatarus, A.; Puiu, D.M.; **Chiriac, F.L.** The Effects of Picloram and Clopyralid on Ocimum Basilicum (Basil)—A Study of the Uptake, Distribution and Translocation of Synthetic Auxins from Soil to Plant. *Environments* **2025**, 12, 144. https://doi.org/10.3390/environments12050144. WOS:001496028700001	**X**	**X**	**4.3**	2C	5	2.15	2
31	Cimpean, I.-A.; Paun, I.; Pirvu, F.; Iancu, V.I.; **Chiriac, F.L.** Unregulated and Regulated PFASs in Bottled and TapWater: Occurrence, Co-Occurrence Patterns, and Implications for Human Health and Regulatory Frameworks. *J. Xenobiot.*	**X**	**X**	**4.6**	2C	5	2.30	5

	2025, 15, 81. https://doi.org/10.3390/jox15030081. WOS:001516764100001							
32	Iancu, V.-I.; **Chiriac, L.-F**.; Paun, I.; Dinu, C.; Pirvu, F.; Cojocaru, V.; Tenea, A.G.; Cimpean, I.A. Pharmaceutical Contaminants Occurrence and Ecological Risk Assessment Along the Romanian Black Sea Coast. *Toxics* **2025**, 13, 498. https://doi.org/10.3390/toxics13060498. WOS:001515422200001	-	-	**4.9**	Co	8	0.61	12
33	Pascu, L.F.; Petre, V.A.; Cimpean, I.A.; Paun, I.; Pirvu, F.; **Chiriac, F.L.** Managing PFAS in Sewage Sludge: Exposure Pathways, Impacts, and Treatment Innovations. J. Xenobiot. **2025**, 15, 135. https://doi.org/10.3390/jox15040135. WOS:001557767600001	**X**	**X**	**4.6**	2C	6	2.30	12
34	Pascu, L.F.; Petre, V.A.; Iancu, V.I.; Cimpean, I.A.; **Chiriac, F.L.** Robust LC–MS/MS Methodology for Low-Level PFAS in Sludge Matrices. Analytica **2025**, 6, 49. https://doi.org/10.3390/analytica6040049. WOS:001648063200001	**X**	**X**	**7.4**	C	5	7.40	3
35	Pirvu, F., Pascu, L.F., Paun, I., Stoica, C., Iancu, V.I., Niculescu, M., Stinga, M.V., **Chiriac, F.L.** Sorption of PAHs onto microplastics in Romanian surface waters and sediments: Environmental toxicity and human health risk with emphasis on pediatric exposure. *Water Res* **2025**, 287, Part B, 124483. https://doi.org/10.1016/j.watres.2025.124483. WOS:001568976600001	**X**	**X**	**12.8**	2C	8	6.40	13
36	Cimpean, I.A., **Chiriac, F.L.,** Stefan, D.S. preliminary assessment of Bisphenol A adsorption on microplastics: capacity, efficiency and control factors. University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science **2026**, 88(1), 215-226. WOS:001737291400016	-	-	**0.5**	Co	3	0.17	0
37	**Chiriac, F.L.**, Iancu, V.I., Cimpean, I.A., Petre, V.A., Pirvu, F., Paun, I. Atmospheric deposition and co-occurrence patterns of organophosphate flame retardants (OPFRs) and perfluorooctanoic acid (PFOA) in urban snow. *Environ. Res*. **2026**, 295, 123924. https://doi.org/10.1016/j.envres.2026.123924. WOS:001684129400001	**X**	**X**	**8.2**	AP	6	8.20	0
38	**Chiriac, F.L.**, Paun, I., Iancu, V.I., Vasilache, N., Pirvu, F. Perfluoroalkyl acids and perfluorooctane sulfonate in the	**X**	**X**	**5.2**	AP	5	5.20	0

	Romanian Black Sea: Occurrence and risk assessment. *Microchemical Journal* **2026**, 224, 117767. https://doi.org/117767. https://doi.org/10.1016/j.microc.2026.117767. WOS:001774425800001							
39	Cimpean, I.-A.; Stefan, D.S.; **Chiriac, F.L.** Interactions Between Microplastics and Organic Pollutants in Aquatic Systems: Impacts on Environmental Fate, Transport, and Risk Assessment. *Environments* **2026**, 13, 238. https://doi.org/10.3390/environments13050238. WOS:001731592300001	**X**	**X**	**4.3**	2C	3	2.15	1
40	Petre, V.-A.; Ungureanu, C.; Gheorghe, S.; Chiriac, F.-L. PFAS in Aquatic Systems: Bioaccumulation Patterns and Implications of Advanced Water Treatment Limitations. Environments **2026**, 13 (6), 330. https://doi.org/10.3390/environments13060330. WOS:001802142200001	**X**	**X**	**4.3**	2C	4	2.15	0
41	Pirvu, F.; Paun, I.; Chiriac, F.L. Microplastics in Aquatic Ecosystems: Sources, Environmental Fate, and Policy Perspectives. Microplastics **2026**, 5, 130. https://doi.org/10.3390/microplastics5020130. WOS:001804355700001	**X**	**X**	**4.8**	C	3	4.80	0
42	**Chiriac, F.L.,** Paun, I., Pirvu, F., Iancu, V.I., Cojocaru, V.C. Ultra-trace multi-matrix LC–MS/MS determination of organophosphate flame retardants and metabolites in marine waters, sediments, and algae. *Analytica Chimica Acta* **2026**, 1418, 345884. https://doi.org/10.1016/j.aca.2026.345884. WOS:001811029300001	**X**	**X**	**6.1**	AP	5	6.10	0
	TOTAL	**29**	**28**	**42**			**94**	**553**

*Citările sunt detaliate în Anexa C – Evidența citărilor Web of Science. Pentru fiecare articol sunt prezentate: (i) rezultatul Web of Science care identifică articolul citat și lucrările citante asociate acestuia și (ii) lista detaliată a lucrărilor citante, cu indicarea autorilor, titlului articolului, revistei, anului publicării și a identificatorului WOS și/sau DOI. Localizarea citărilor aferente fiecărui articol este indicată în opisul Anexei C.

AP – autor principal; C- correspondent; Co – coautor

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