ACADEMIA ROMÂNĂ

SCOSAAR

Anexa nr.3

AVIZAT,

Director SCOSAAR

Acad. Maria Zaharescu

AVIZAT,

Director ȘCOALA DOCTORALĂ DE ȘTIINȚE CHIMICE

Dr. MIHAI Marcela

Marcela Mihai Digitally signed by Marcela Mihai Date: 2026.06.16 16:51:23 +03'00'

1. Îndeplinirea standardelor IOSUD superioare standardelor minimale naţionale* [] DA| [] | NU

2. Îndeplinirea standardelor IOSUD egale standardelor minimale naţionale* **[X] DA|** [] | NU

FIŞA DE ÎNDEPLINIRE A STANDARDELOR IOSUD

FIŞA DE VERIFICARE
a îndeplinirii standardelor IOSUD

Candidat: **Dr. CRIȘAN Elena-Luminița**

Data: 30.04.2026

Semnătura:

*se va alege una dintre variante

ACADEMIA ROMÂNĂ
SCOSAAR

FIŞA DE VERIFICARE

a îndeplinirii standardelor minimale

Categorie Habilitare	N_{max} (*)	FIC (**)	FIC_D (***)	FIC_{AP} (****)	FIC_{AC} (*****)	h index
Cerințe	50	100	70	50	25	13
Realizat	50	**118.57**	**114.97**	**90.34**	**48.19**	**15**

(*) N_{max} – primele maxim N lucrari, organizate in ordinea descrescatoare a factorilor de impact a revistelor in care au fost publicate;
(**) FIC – factorul de impact cumulat minimal al revistelor in care s-au publicat lucrarile in cauza;
(***)FIC_D – factorul de impact cumulat minimal din publicatii in domeniile de cercetare declarate;
(****) FIC_{AP} – factorul de impact cumulat minimal din publicatii in calitate de autor principal (prim-autor si autor de corespondenta);
(*****) FIC_{AC} – factorul de impact cumulat minimal din publicatii in calitate de autor de corespondenta;

Nr. crt	Lucrare	FIC	FIC_D	FIC_{AP}	FIC_{AC}
1	Plesu, N.; **Crisan, L.;** Maranescu, B.; Popa, A.; Visa, A. Exploring Corrosion Protection with Greener Synthesized Metal Phosphonates. *Sustainable Chemistry and Pharmacy.* **2025**, 44, 101970. https://doi.org/10.1016/j.scp.2025.101970	5.8	5.8		
2	Pacureanu, L.; Avram, S.; **Crisan, L.** Comprehensive Investigation of Selectivity Landscape of Glycogen Synthase Kinase-3 Inhibitors. *Journal of Biomolecular Structure & Dynamics.* **2021**, 39, 7, 2318–2337. https://doi.org/10.1080/07391102.2020.1747544	5.235	5.235	5.235	5.235
3	Visa, A.; Maranescu, B.; Lupa, L.; **Crisan, L.;** Borota, A. New Efficient Adsorbent Materials for the Removal of Cd(II) from Aqueous Solutions. *Nanomaterials.* **2020**, 10, 5, 899. https://doi.org/10.3390/nano10050899	5.076	5.076	5.076	
4	Visa, A.; Plesu, N.; Maranescu, B.; Ilia, G.; Borota, A.; **Crisan, L.** Combined Experimental and Theoretical Insights into the Corrosion Inhibition Activity on Carbon Steel Iron of Phosphonic Acids. *Molecules.* **2021**, 26, 1, 135. https://doi.org/10.3390/molecules26010135	4.927	4.927	4.927	4.927
5	Caraba, I.V.; **Crisan, L.;** Caraba, M.N. A Comprehensive Environmental and Molecular Strategy for the Evaluation of Fluroxypyr and Nature-Derived Compounds. *International Journal of Molecular Sciences.* **2025**, 26, 17, 8209. https://doi.org/10.3390/ijms26178209	4.9	4.9	4.9	4.9
6	Pacureanu, L.; Bora, A.; **Crisan, L.** New Insights on the Activity and Selectivity of MAO-B Inhibitors through In Silico Methods. *International Journal of Molecular Sciences.* **2023**, 24, 11, 9583. https://doi.org/10.3390/ijms24119583	4.9	4.9	4.9	4.9
7	**Crisan, L.;** Funar-Timofei, S.; Borota, A. Homology Modeling and Molecular Docking Approaches for the Proposal of Novel Insecticides against the African Malaria Mosquito (Anopheles gambiae). *Molecules.* **2022**, 27, 12, 3846. https://doi.org/10.3390/molecules27123846	4.6	4.6	4.6	4.6

8	Murariu, A.C.; Macarie, L.; **Crisan, L.;** Plesu, N. Experimental Investigations of AlMg3 Components with Polyurethane and Graphene Oxide Nanosheets Composite Coatings, after Accelerated UV-Aging. *Molecules*. **2022**, 27, 1, 84. https://doi.org/10.3390/molecules27010084	4.6	4.6	4.6	
9	Croitor, L.; Petric, M.; **Crisan, L.;** Bourosh, P.N.; Vlase, G.; Vlase, T.; Crisan, M. Effect of Substituents on the Crystal Structure and Thermal Stability of N-Phosphorylated Iminophosphoranes. *Journal of Thermal Analysis and Calorimetry*. **2022**, 147, 9, 5423–5435. https://doi.org/10.1007/s10973-022-11201-1	4.4	4.4		
10	Avram, S.I.; Pacureanu, L.M.; Bora, A.; **Crisan, L.;** Avram, S.; Kurunczi, L. ColBioS-FlavRC: A Collection of Bioselective Flavonoids and Related Compounds Filtered from High-Throughput Screening Outcomes. *Journal of Chemical Information and Modeling*. **2014**, 54, 8, 2360–2370. https://doi.org/10.1021/ci5002668	3.738	3.738		
11	Caraba, M.N.; Caraba, I.V.; Pet, E.; Pet, I.; **Crisan, L.;** Sinitean, A.; Hutanu, D. Soil Enzymatic Response to Nicosulfuron: A Preliminary Study in a Chernozem Typical to the Banat Plain, Western Romania. *Agriculture*. **2024**, 14, 8, 1380. https://doi.org/10.3390/agriculture14081380	3.6			
12	**Crisan, L.;** Borota, A.; Bora, A.; Suzuki, T.; Funar-Timofei, S. Application of Molecular Docking, Homology Modeling, and Chemometric Approaches to Neonicotinoid Toxicity against Aphis craccivora. *Molecular Informatics*. **2022**, 41, 3, 2100058. https://doi.org/10.1002/minf.202100058	3.6	3.6	3.6	
13	**Crisan, L.;** Istrate, D.; Bora, A.; Pacureanu, L. Virtual Screening and Drug Repurposing Experiments to Identify Potential Novel Selective MAO-B Inhibitors for Parkinson's Disease Treatment. *Molecular Diversity*. **2021**, 25, 3, 1775–1794. https://doi.org/10.1007/s11030-020-10155-6	3.364	3.364	3.364	
14	**Crisan, L.;** Avram, S.; Kurunczi, L.; Pacureanu, L. Partial Least Squares Discriminant Analysis and 3D Similarity Perspective Applied to Analyze Comprehensively the Selectivity of Glycogen Synthase Kinase 3 Inhibitors. *Molecular Informatics*. **2020**, 39, 6. https://doi.org/10.1002/minf.201900142	3.353	3.353	3.353	
15	**Crisan, L.;** Bora, A. Small Molecules of Natural Origin as Potential Anti-HIV Agents: A Computational Approach. *Life*. **2021**, 11, 7, 722. https://doi.org/10.3390/life11070722	3.253	3.253	3.253	3.253
16	Oniga, S.D.; Pacureanu, L.; Stoica, C.I.; Palage, M.D.; Craciun, A.; Rusu, L.R.; **Crisan, E.L.;** Araniciu, C. COX Inhibition Profile and Molecular Docking Studies of Some 2-(Trimethoxyphenyl)-Thiazoles. *Molecules*. **2017**, 22, 9, 1507. https://doi.org/10.3390/molecules22091507	3.098	3.098		
17	Avram, S.I.; **Crisan, L.;** Bora, A.; Pacureanu, L.M.; Avram, S.; Kurunczi, L. Retrospective Group Fusion Similarity Search Based on eROCE Evaluation Metric. *Bioorganic & Medicinal Chemistry*. **2013**, 21, 5, 1268–1278. https://doi.org/10.1016/j.bmc.2012.12.041	2.951	2.951		

18	Kurunczi, L.; Seclaman, E.; Oprea, T.I.; **Crisan, L.;** Simon, Z. MTD-PLS: A PLS Variant of the Minimal Topologic Difference Method. III. Mapping Interactions between Estradiol Derivatives and the Alpha Estrogenic Receptor. *Journal of Chemical Information and Modeling.* **2005**, 45, 5, 1275–1281. https://doi.org/10.1021/ci050077c	2.923	2.923		
19	Chirila, C.B.; Gradinaru, L.; **Crisan, L.** A Hybrid Machine Learning Pipeline for Reliable Prediction of Potential HIV-1 Inhibitors. *Processes*. **2025**, 13, 10, 3327. https://doi.org/10.3390/pr13103327	2.8	2.8	2.8	2.8
20	Istrate, D.; **Crisan, L.** Dipeptidyl Peptidase 4 Inhibitors in Type 2 Diabetes Mellitus Management: Pharmacophore Virtual Screening, Molecular Docking, Pharmacokinetic Evaluations, and Conceptual DFT Analysis. *Processes*. **2023**, 11, 11, 3100. https://doi.org/10.3390/pr11113100	2.8	2.8	2.8	2.8
21	**Crisan, L.;** Borota, A.; Suzuki, T.; Funar-Timofei, S. An Approach to Identify New Insecticides Against Myzus Persicae. In Silico Study Based on Linear and Non-linear Regression Techniques. *Molecular Informatics*. **2019**, 38, 8–9, 1800119. https://doi.org/10.1002/minf.201800119	2.741	2.741	2.741	
22	Istrate, D.; **Crisan, L.** Natural Compounds as DPP-4 Inhibitors: 3D-Similarity Search, ADME Toxicity, and Molecular Docking Approaches. *Symmetry*. **2022**, 14, 9, 1842. https://doi.org/10.3390/sym14091842	2.7	2.7	2.7	2.7
23	**Crisan, L.;** Istrate, D. In Silico Approach for Fighting Human Immunodeficiency Virus: A Drug Repurposing Strategy. *Chemical Papers*. **2025**, 79, 1, 417–435. https://doi.org/10.1007/s11696-024-03789-5	2.5	2.5	2.5	2.5
24	**Crisan, L.;** Pacureanu, L.; Avram, S.; Bora, A.; Avram, S.; Kurunczi, L. PLS and Shape-Based Similarity Analysis of Maleimides – GSK-3 Inhibitors. *Journal of Enzyme Inhibition and Medicinal Chemistry*. **2014**, 29, 4, 599–610. https://doi.org/10.3109/14756366.2013.833196	2.332	2.332	2.332	
25	**Crisan, L.;** Avram, S.; Pacureanu, L. Pharmacophore-Based Screening and Drug Repurposing Exemplified on Glycogen Synthase Kinase-3 Inhibitors. *Molecular Diversity*. **2017**, 21, 2, 385–405. https://doi.org/10.1007/s11030-016-9724-5	2.229	2.229	2.229	2.229
26	Funar-Timofei, S.; Borota, A.; **Crisan, L.** Combined Molecular Docking and QSAR Study of Fused Heterocyclic Herbicide Inhibitors of D1 Protein in Photosystem II of Plants. *Molecular Diversity*. **2017**, 21, 2, 437–454. https://doi.org/10.1007/s11030-017-9735-x	2.229	2.229	2.229	
27	**Crisan, L.;** Borota, A.; Bora, A.; Pacureanu, L. Diarylthiazole and Diarylimidazole Selective COX-1 Inhibitor Analysis through Pharmacophore Modeling, Virtual Screening, and DFT-Based Approaches. *Structural Chemistry*. **2019**, 30, 6, 2311–2326. https://doi.org/10.1007/s11224-019-01414-w	2.081	2.081	2.081	
28	Pacureanu, L.; Avram, S.; Bora, A.; Kurunczi, L.; **Crisan, L.** Portraying the Selectivity of GSK-3 Inhibitors towards CDK-2 by 3D Similarity and Molecular Docking. *Structural Chemistry*. **2019**, 30, 3, 911–923.	2.081	2.081	2.081	2.081

	https://doi.org/10.1007/s11224-018-1224-z				
29	Bora, A.; **Crisan, L.;** Borota, A.; Funar-Timofei, S.; Ilia, G. Ecotoxicological QSAR Modeling of Organophosphorus and Neonicotinoid Pesticides. In: Ecotoxicological QSARs. Methods in Pharmacology and Toxicology, Roy, K. (Ed), Humana, New York, NY, Springer Protocols, *2020*, 513–544. https://doi.org/10.1007/978-1-0716-0150-1_21	2	2	2	
30	**Crisan, L.;** Borota, A.; Bora, A.; Funar-Timofei, S.; Ilia, G. Chemometric Modeling of Algal and Daphnia Toxicity. In: Chemometrics and Cheminformatics in Aquatic Toxicology, Roy, K. (Ed.), John Wiley and Sons Ltd, *2021*, 243-274. https://doi/10.1002/9781119681397.ch13	2	2	2	
31	**Crisan, L.;** Iliescu, S.; Ilia, G.; Funar-Timofei, S. Quantitative Structure–Property Relationship Modeling of Phosphoric Polyester Char Formation. *Fire and Materials.* **2019**, 43, 1, 101–109. https://doi.org/10.1002/fam.2673	1.925	1.925	1.925	
32	**Crisan, L.;** Varga, D.; Pacureanu, L. Pharmacophore Modeling and Docking Study of Pyrazolylaminoquinazoline Derivatives as Highly Potent Fibroblast Growth Factor Receptor Inhibitors (FGFR2). *Revista de Chimie.* **2019**, 70, 3, 790–796.	1.755	1.755	1.755	
33	Pacureanu, L.; **Crisan, L.;** Bora, A.; Avram, S.; Kurunczi, L. In Silico Classification and Virtual Screening of Maleimide Derivatives Using Projection to Latent Structures Discriminant Analysis (PLS-DA) and Hybrid Docking. *Monatshefte für Chemie.* **2012**, 143, 11, 1559–1573. https://doi.org/10.1007/s00706-012-0816-3	1.629	1.629	1.629	1.629
34	**Crisan, L.;** Pacureanu, L.; Avram, S.; Bora, A.; Kurunczi, L. Implementation of PLS Discriminant Analysis to Rank Indirubin Derivatives against Decoys. *Central European Journal of Chemistry.* **2013**, 11, 10, 1644–1656. https://doi.org/10.2478/s11532-013-0300-x	1.329	1.329	1.329	
35	**Crisan, L.;** Pacureanu, L.; Bora, A.; Avram, S.; Kurunczi, L.; Simon, Z. QSAR Study and Molecular Docking on Indirubin Inhibitors of Glycogen Synthase Kinase-3. *Central European Journal of Chemistry.* **2013**, 11, 1, 63–77. https://doi.org/10.2478/s11532-012-0133-z	1.329	1.329	1.329	
36	Petric, M.; **Crisan, L.;** Crisan, M.; Micle, A.; Maranescu, B.; Ilia, G. Synthesis and QSRR Study for a Series of Phosphoramidic Acid Derivatives. *Heteroatom Chemistry.* **2013**, 24, 2, 138–145. https://doi.org/10.1002/hc.21076	1.257	1.257	1.257	1.257
37	Borota, A.; Avram, S.; Curpan, R.; Bora, A.; Varga, D.; Halip, L.; **Crisan, L.** In Silico Studies on Smoothened Human Receptor and Its Antagonists in Search of Anticancer Effects. *Journal of the Serbian Chemical Society.* **2020**, 85, 3, 335–346. https://doi.org/10.2298/JSC190403085B	1.24	1.24	1.24	1.24
38	Ivan, D.; **Crisan, L.;** Funar-Timofei, S.; Mracec, M. A Quantitative Structure–Activity Relationships Study for the Anti-HIV-1 Activities of 1-[(2-Hydroxyethoxy)methyl]-6-(phenylthio)thymine Derivatives Using the Multiple Linear Regression and Partial Least Squares Methodologies. *Journal*	0.889	0.889	0.889	0.889

	of the Serbian Chemical Society. **2013**, 78, 4, 495–506. https://doi.org/10.2298/JSC120713085I				
39	Ivan, D.; **Crisan, L.;** Pacureanu, L. Docking Experiment for (3S,5S,6S)-6-Acetylamidopenicillanic Acid. *Revista de Chimie.* **2011**, 62, 8, 806–809.	0.599	0.599		
40	**Crisan, L.;** Iliescu, S.; Funar-Timofei, S. Structure–Flammability Relationship Study of Phosphoester Dimers by MLR and PLS. *Polímeros: Ciência e Tecnologia.* **2016**, 26, 2, 129–136. https://doi.org/10.1590/0104-1428.2306	0.571	0.571	0.571	
41	**Crisan, L.;** Bora, A.; Pacureanu, L.; Avram, S.; Kurunczi, L. PLS (Partial Least Square) Study for GSK-3 (Glycogen Synthase Kinase-3) Inhibition by Indirubin Derivatives. *Revista de Chimie.* **2012**, 63, 5, 481–488.	0.538	0.538	0.538	
42	**Crisan, L.;** Varga, D.; Avram, S.; Pacureanu, L. Application of 2D and 3D Similarity Methods to GSK-3 Benchmarking Validation Dataset Including Selective and Nonselective Inhibitors. *Revue Roumaine de Chimie.* **2018**, 63, 11, 1083–1091.	0.395	0.395	0.395	
43	**Crisan, L.;** Funar-Timofei, S.; Borota, A. QSAR and Ligand-Based Pharmacophore Models of Dibenzoylhydrazines with Insecticide Activity against the Silkworm Bombyx mori L. *Revue Roumaine de Chimie.* **2017**, 62, 8–9, 699–706.	0.37	0.37		
44	Varga, D.; **Crisan, L.;** Pacureanu, L. Molecular Modeling Studies of Thiazole Derivatives as PIN1 Inhibitors. *Revue Roumaine de Chimie.* **2017**, 62, 4–5, 425–432.	0.37	0.37	0.37	
45	**Crisan, L.;** Bora, A.; Kurunczi, L.; Vlaia, V.; Simon, Z. Multiple Linear Regression and Partial Least Squares QSAR Modeling Applied to a Series of Antipsychotic Sertindole Derivatives. *Revue Roumaine de Chimie.* **2010**, 55, 11–12, 941+.	0.311	0.311	0.311	
46	Avram, S.; Avram, S.; **Crisan, L.;** Pacureanu, L.; Kurunczi, L.; Bora, A. Self-Organizing Map Classification Model for the Prediction of MEK1 Inhibitors. *Revue Roumaine de Chimie.* **2015**, 60, 2–3, 167–173.	0.25	0.25		
47	Bora, A.; Avram, S.; **Crisan, L.;** Halip, L.; Curpan, R.; Pacureanu, L.; Ciucanu, I. Theoretical Investigations of Quercetin and Its Analogues as Anticancer Agents. *Revue Roumaine de Chimie.* **2015**, 60, 2–3, 175–181.	0.25	0.25		
48	**Crisan, L.;** Avram, S.; Bora, A.; Kurunczi, L.; Pacureanu, L. 3D-QSAR Study of Maleimide Analogues as Glycogen Synthase Kinase-3 (GSK-3) Inhibitors Using CoMSIA Approach. *Revue Roumaine de Chimie.* **2015**, 60, 2–3, 183–188.	0.25	0.25	0.25	0.25
49	**Crisan, L.;** Iliescu, S.; Funar-Timofei, S. The Investigation of Structure–Flammability Relationships of Polyphosphonates by PLS Analysis. *Revue Roumaine de Chimie.* **2015**, 60, 2–3, 189–195.	0.25	0.25		
50	Petric, M.; Crisan, M.; **Crisan, L.;** Ilia, G. Synthesis and Theoretical Study on Some New Phosphoramidates. *Revue Roumaine de Chimie.* **2015**, 60, 2–3, 197–203.	0.25	0.25	0.25	
	TOTAL	**118.57**	**114.97**	**90.34**	**48.19**

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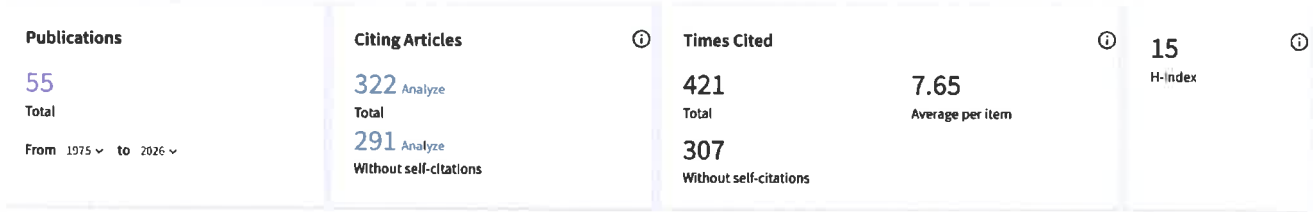
Indicele Hirsch (h_{index}) - Web of Science: 15



(accesat în 30.04.2026)

Data:
30.04.2026

Dr. CRIȘAN Elena-Luminița