ACADEMIA ROMÂNĂ

SCOSAAR

Anexa nr.3

AVIZAT,

Director SCOSAAR

Acad. Maria Zaharescu

AVIZAT,

ȘCOALA DOCTORALĂ de ȘTIINȚE CHIMICE

Director

CSI Dr. Habil. MIHAI, Marcela

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

FIŞA DE ÎNDEPLINIRE A STANDARDELOR IOSUD

Categorie Habilitare/CSI	N_{max}	FIC	FIC_D	FIC_{AP}	FIC_{AC}	h index
Cerințe (standarde minimale naționale)	50	100	70	50	25	13
Cerințe (IOSUD)	50	150	95	75	37,5	20
Realizat	**42**	**276,669**	**276.669**	**112.669**	**100,269**	**23**

NB: Factorii de impact (FI) corespunzători anului 2025, conform Clarivate Analytics

N_{max} - primele maxim N lucrări, organizate în ordinea descrescătoare a factorilor de impact a revistelor în care au fost publicate;

FIC - factorul de impact cumulat minimal al revistelor în care s-au publicat lucrările în cauză;

FIC_D - factorul de impact cumulat minimal din publicații în domeniile de cercetare declarate;

FIC_{AP} - factorul de impact cumulat minimal din publicații în calitate de autor principal (prim-autor și autor de corespondență);

FIC_{AC} - factorul de impact cumulat minimal din publicații în calitate de autor de corespondență

Candidat: **dr. CSII JERCA Valentin-Victor**

Data:03.09.2026 Semnătura:

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FIŞA DE VERIFICARE

a îndeplinirii standardelor IOSUD

NR. CRT.	LUCRARE	FIC	FIC_D	FIC_{AP}	FIC_{AC}
1	Xu XW, Jerca FA, **Jerca VV**, Hoogenboom R. Covalent poly(2-isopropenyl-2-oxazoline) hydrogels with high mechanical strength and toughness through secondary terpyridine metal-coordination crosslinks. *Advanced Functional Materials* 2019, **29**(48)**:** 1904886.	19,9	19,9	19,9	19,9
2	Xu XW, **Jerca VV**, Hoogenboom R. Bio-inspired Hydrogels as Multi-task Anti-icing Hydrogel Coatings. *Chem* 2020, **6**(4)**:** 820-822.	19,1	19,1		
3	**Jerca VV**, Hoogenboom R. Photocontrol in Complex Polymeric Materials: Fact or Illusion? *Angewandte Chemie-International Edition* 2018, **57**(27)**:** 7945-7947.	17,6	17,6	17,6	17,6
4	Monnery BD, **Jerca VV**, Sedlacek O, Verbraeken B, Cavill R, Hoogenboom R. Defined High Molar Mass Poly(2-Oxazoline)s. *Angewandte Chemie-International Edition* 2018, **57**(47)**:** 15400-15404.	17,6	17,6		
5	Xu XW, **Jerca VV**, Hoogenboom R. Structural Diversification of Pillar n arene Macrocycles. *Angewandte Chemie-International Edition* 2020, **59**(16)**:** 6314-6316.	17,6	17,6		
6	Xu XW, Jerca FA, Van Hecke K**, Jerca VV**, Hoogenboom R. High Compression Strength Single Network Hydrogels with Pillar[5]arene Junction Points. *Materials Horizons* 2020, **7**(2)**:** 566-573.	11,4	11,4	11,4	11,4
7	Xu XW, **Jerca VV**, Hoogenboom R. Bioinspired Double Network Hydrogels: from Covalent Double Network Hydrogels via Hybrid Double Network Hydrogels to Physical Double Network Hydrogels. *Materials Horizons* 2021, **8**(4)**:** 1173-1188.	11,4	11,4		
8	Saravanan S, Babu A, Merckx R, Zhong ZF, Anandan M, Nutalapati V, De Geest BG, Hoogenboom R, **Jerca VV**, Maji S. Design of Fluorescent Polymeric Thermometers Based on Anthrapyrazolone Functionalized Oligo(ethylene glycol) Methacrylates. *Materials Chemistry Frontiers* 2023, **7**(9): 1875-1885.	8,1	8,1	8,1	8,1
9	Van Guyse JFR, Cools P, Egghe T, Asadian M, Vergaelen M, Rigole P, Yan WQ, Benetti EM, **Jerca VV**, Declercq H, Coenye T, Morent R, Hoogenboom R, De Geyter N. Influence of the Aliphatic Side Chain on the Near Atmospheric Pressure Plasma Polymerization of 2-Alkyl-2-oxazolines for Biomedical Applications. *ACS Applied Materials & Interfaces* 2019, **11**(34)**:** 31356-31366.	7,8	7,8		

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NR. CRT.	LUCRARE	FIC	FIC_D	FIC_{AP}	FIC_{AC}
10	Merckx R, Becelaere J, Schoolaert E, Frateur O, Leiske MN, Peeters D, Jerca FA, **Jerca VV**, De Clerck K, Hoogenboom R. Poly(2-isoproprenyl-2-oxazoline)-Based Reactive Hydrophilic Cross-Linked Nanofiber Networks as the Basis for Colorimetric Continuous Meat Freshness Monitoring Sensors. *Chemistry of Materials* 2023, **35**(17): 7079-7093.	7,1	7,1	7,1	7,1
11	Jerca FA, **Jerca VV**. Photoresponsive Polymers: Quo Vadis. *European Polymer Journal* 2017, **88**: 257-258.	6,8	6,8	6,8	6,8
12	Jung P, **Jerca VV**, Hoogenboom R, Frey H. Living Anionic Polymerization of 2-Isopropenyl-2-Oxazoline in Continuous Flow: From Efficient Synthesis to Hydroxyl End-Functionalized Polymers. *European Polymer Journal* 2025, **234**: 114011.	6,8	6,8		
13	Mitran RA, Lincu D, Ionita S, Deaconu M, **Jerca VV**, Mocioiu OC, Berger D, Matei C. High Temperature Shape Stabilized Phase Change Materials Obtained Using Mesoporous Silica and NaCl - NaBr - Na_2MoO_4 salt eutectic. *Solar Energy Materials and Solar Cells* 2020, **218**: 110760.	6,6	6,6		
14	Leonties AR, Baran A, Ionita G, Precupas A, Sanda G, Ciutu ML, Bucur AG, **Jerca VV**, Aricov L. Supramolecular Interactions and Adsorption Behavior of β-Cyclodextrin-Functionalized Polyacrylates Toward Rhodamine B. *Surfaces and Interfaces* 2026, **80**: 108334.	6,0	6,0		
15	Arraez FJ, Xu XW, Van Steenberge PHM, **Jerca VV**, Hoogenboom R, D'Hooge DR. Macropropagation Rate Coefficients and Branching Levels in Cationic Ring-Opening Polymerization of 2-Ethyl-2-oxazoline through Prediction of Size Exclusion Chromatography Data. *Macromolecules* 2019, **52**(11)**:** 4067-4078.	5,7	5,7		
16	Xu XW, Jerca FA, **Jerca VV**, Hoogenboom R. Self-Healing and Moldable Poly(2-isopropenyl-2-oxazoline) Supramolecular Hydrogels Based on a Transient Metal Coordination Network. *Macromolecules* 2020, **53**(15)**:** 6566-6575.	5,7	5,7	5,7	5,7
17	Van Den Broeck E, Verbraeken B, Dedecker K, Cnudde P, Vanduyfhuys L, Verstraelen T, Van Hecke K, **Jerca VV**, Catak S, Hoogenboom R, Van Speybroeck V. Cation-pi Interactions Accelerate the Living Cationic Ring-Opening Polymerization of Unsaturated 2-Alkyl-2-oxazolines. *Macromolecules* 2020, **53**(10)**:** 3832-3846.	5,7	5,7		
18	Vergaelen M, Monnery BD, **Jerca VV**, Hoogenboom R. Detailed Understanding of Solvent Effects for the Cationic Ring-Opening Polymerization of 2-Ethyl-2-oxazoline. *Macromolecules* 2023, **56**(4): 1534-1546.	5,7	5,7		

NR. CRT.	LUCRARE	FIC	FIC_D	FIC_{AP}	FIC_{AC}
19	**Jerca VV**, Nicolescu FA, Baran A, Anghel DF, Vasilescu DS, Vuluga DM. Synthesis and Characterization of Side-Chain Oxazoline-Methyl Methacrylate Copolymers Bearing Azo-Dye. *Reactive & Functional Polymers* 2010, **70**(10)**:** 827-835.	5,4	5,4	5,4	5,4
20	**Jerca VV**, Nicolescu FA, Trusca R, Vasile E, Baran A, Anghel DF, Vasilescu DS, Vuluga DM. Oxazoline-Functional Polymer Particles Graft with Azo-Dye. *Reactive & Functional Polymers* 2011, **71**(4)**:** 373-379.	5,4	5,4	5,4	5,4
21	Baran A, Aricov L, Stinga G, Iovescu A, Leonties AR, **Jerca VV**. The Effect of C12E6 Nonionic Surfactant on the Solubilization of Eosin Y in Unmodified- and Hydrophobically Modified Poly(Acrylic acid) Solutions. *Journal of Molecular Liqui*ds 2022, **346**: 117103.	5,2	5,2		
22	Stinga G, Baran A, Iovescu A, Maxim ME, **Jerca VV**. A Highly Selective Multifunctional Naphthalene-Labeled Polymer Sensor for Cu^{2+} and Fe^{3+} Ions in Aqueous Medium. *Journal of Molecular Liqui*ds 2024, **406**: 125074.	5,2	5,2		
23	Xu XW, Maji S, **Jerca VV**, Sedlacik T, Hoogenboom R. Self-Healing and Shape-Memory Multiphase Thermoplastic Elastomers Based on Electrostatic Assembly of Oppositely Charged Diblock Copolymer Assemblies. *ACS Applied Polymer Materials* 2024, **6**(3): 1611-1621.	5,2	5,2		
24	Merckx R, Swift T, Rees R, Van Guyse JFR, Schoolaert E, De Clerck K, Ottevaere H, Thienpont H, **Jerca VV**, Hoogenboom, R. Forster Resonance Energy Transfer in Fluorophore Labeled Poly(2-ethyl-2-oxazoline)s. *Journal of Materials Chemistry C* 2020, **8**(40)**:** 14125-14137.	5,1	5,1	5,1	5,1
25	Verjans J, Sedlacik T, **Jerca VV**, Bernhard Y, Van Guyse JFR, Hoogenboom R. *ACS Macro Letters* 2023, **12**(1): 79-85.	4,9	4,9		
26	**Jerca VV**, Jerca FA, Rau I, Manea AM, Vuluga DM, Kajzar F. Advances in Understanding the Photoresponsive Behavior of Azobenzenes Substituted with Strong Electron Withdrawing Groups. *Optical Materials* 2015, **48**: 160-164.	4,3	4,3	4,3	
27	**Jerca VV**, Nicolescu FA, Vasilescu DS, Vuluga DM. Synthesis of a New Oxazoline Macromonomer for Dispersion Polymerization. *Polymer Bulletin* 2011, **66**(6)**:** 785-796.	4,2	4,2	4,2	
28	Xu XW, Van Guyse OFR, **Jerca VV**, Hoogenboom R. Metal Ion Selective Self-Assembly of a Ligand Functionalized Polymer into [1+1] Macrocyclic and Supramolecular Polymer Structures via Metal-Ligand Coordination. *Macromolecular Rapid Communications* 2020, **41**(1).	4,1	4,1		

NR. CRT.	LUCRARE	FIC	FIC_D	FIC_{AP}	FIC_{AC}
29	Xu XW, **Jerca VV**, Hoogenboom R. Self-Healing Metallo-Supramolecular Hydrogel Based on Specific Ni^{2+} Coordination Interactions of Poly(ethylene glycol) with Bistriazole Pyridine Ligands in the Main Chain. *Macromolecular Rapid Communications* 2020, **41**(4).	4,1	4,1		
30	**Jerca VV**, Lava K, Verbraeken B, Hoogenboom R. Poly(2-cycloalkyl-2-oxazoline)s: high melting temperature polymers solely based on Debye and Keesom van der Waals interactions. *Polymer Chemistry* 2016, **7**(6)**:** 1309-1322.	3,9	3,9	3,9	
31	Glassner M, Verbraeken B, **Jerca VV**, Van Hecke K, Tsanaktsidis J, Hoogenboom R. Poly(2-oxazoline)s with pendant cubane groups. *Polymer Chemistry* 2018, **9**(39)**:** 4840-4847.	3,9	3,9		
32	Maji S, **Jerca VV**, Hoogenboom R. Dual pH and thermoresponsive alternating polyampholytes in alcohol/water solvent mixtures. *Polymer Chemistry* 2020, **11**(12)**:** 2205-2211.	3,9	3,9		
33	Arraez FJ, Xu XW, Edeleva M, Van Steenbeerge PHM, Marien YW, **Jerca VV**, Hoogenboom R, D'hooge DR. Differences and Similarities Between Mono-, Bi- or Tetrafunctional Initiated Cationic Ring-Opening Polymerization of 2-Oxazolines. *Polymer Chemistry* 2022, **13**(7): 861-876.	3,9	3,9		
34	Monnery BD, **Jerca VV**, Hoogenboom R, Swift T. Polymer Conformation Determination by NMR Spectroscopy: Comparative Diffusion Ordered ^{1}H-NMR Spectroscopy of Poly(2-ethyl-2-oxazoline)s and Poly(ethylene glycol) in D_2O. *Polymer Chemistry* 2024, **15**(30): 3077-3085.	3,9	3,9		
35	Jerca FA, **Jerca VV**, Anghel DF, Stinga G, Marton G, Vasilescu DS, Vuluga DM. Novel Aspects Regarding the Photochemistry of Azo-Derivatives Substituted with Strong Acceptor Groups. *Journal of Physical Chemistry C* 2015, **119**(19): 10538-10549.	3,4	3,4	3,4	3,4
36	Xu XW, Seiffert AK, Lenaerts R, Ryskulova K, Jana S, Van Hecke K, **Jerca VV**, Hoogenboom R. [2 x 2] Metallo-Supramolecular Grids based on 4,6-Bis((1H-1,2,3-Triazol-4-yl)-Pyridin-2-yl)-2-Phenylpyrimidine Ligands: from Discrete [2 x 2] Grid Structures to Star-Shaped Supramolecular Polymeric Architectures. *Dalton Transaction* 2021, **50**(25): 8746-8751.	3,3	3,3		
37	Aricov L, Baran A, Simion EL, Gifu IC, Anghel DF, **Jerca VV**, Vuluga, DM. New insights into the Self-Assembling of Some Hydrophobically Modified Polyacrylates in Aqueous Solution. *Colloid and Polymer Science* 2016, **294**(4)**:** 667-679.	2,9	2,9		

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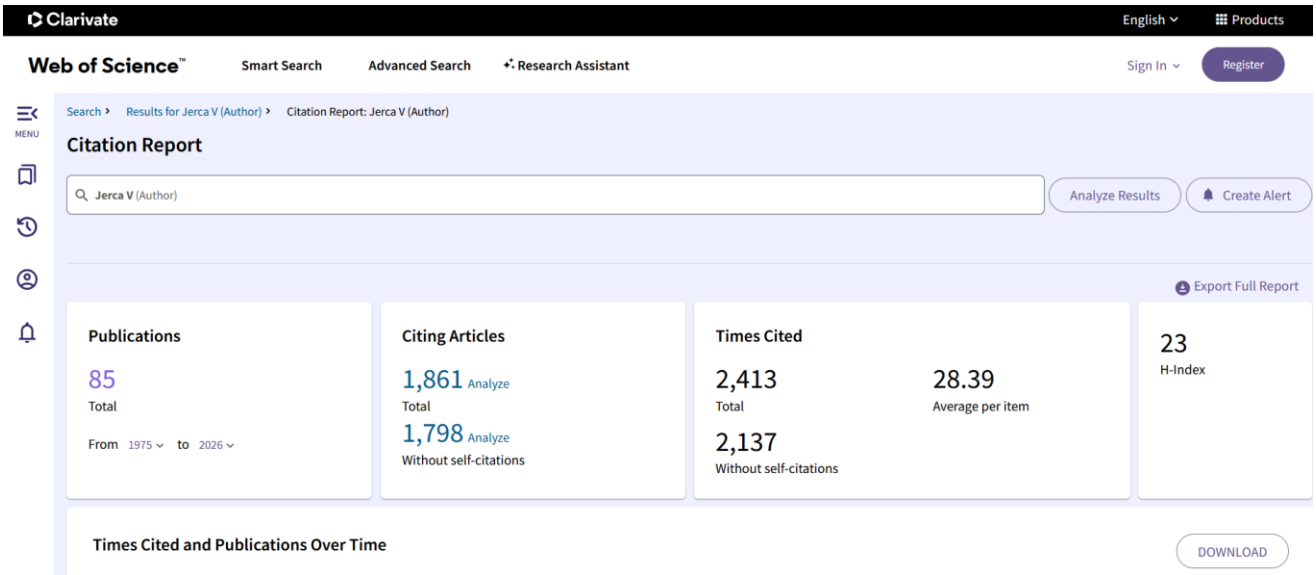
NR. CRT.	LUCRARE	FIC	FIC_D	FIC_{AP}	FIC_{AC}
38	Jerca FA, **Jerca VV**, Hoogenboom R. Well-Defined Thermoresponsive Polymethacrylamide Copolymers with Ester Pendent Groups through One-Pot Statistical Postpolymerization Modification of Poly(2-Isopropenyl-2-Oxazoline) with Multiple Carboxylic Acids. *Journal of Polymer Science Part A-Polymer Chemistry* 2019, **57**(3): 360-366.	2,869	2,869	2,869	2,869
39	Xu XW, **Jerca VV**, Hoogenboom R. Self-Healing Hydrogels by Metal Complexation of 2,6-Bis(1,2,3-triazol-4yl)pyridine Functionalized Tetra-Arm Star Poly(ethylene glycol). *Macromolecular Chemistry and Physics* 2023, **224**(3): 2200330.	2,8	2,8		
40	**Jerca VV**, Nicolescu FA, Vuluga DM, Andronescu C, Iovu H, Vasilescu DS. Dispersion Polymerization of Styrene in the Presence of 2-ethyl-2-oxazoline Macromonomer. *Materiale Plastice* 2010, **47**(2)**:** 141-145.	0,8	0,8	0,8	0,8
41	**Jerca VV**, Nicolescu AF, Albu AM, Vuluga DM. Polymer Architectures Based on Oxazoline Monomers. *Molecular Crystals and Liquid Crystals* 2008, **483:** 78-88	0,7	0,7	0,7	0,7
42	Stanciu ND, **Jerca VV**, Vuluga DM, Stanescu P, Ficai A, Teodorescu M. Synthesis and Characterization of Composites from Layered Silicates and Homo- and Copolymers of 2-Hydroxyethyl Methacrylate and P-Chloromethyl Styrene Obtained by In Situ Radical (Co)polymerization. *Molecular Crystals and Liquid Crystals* 2010, **521:** 204-213.	0,7	0,7		
	TOTAL	**276,669**	**276,669**	**112,669**	**100,269**



Data:03.09.2026 Semnătura: