



ACADEMIA ROMÂNĂ

SCOSAAR

Anexa 3

AVIZAT,

Director SCOSAAR

Acad. Maria Zaharescu

AVIZAT,

Director ȘCOALA DOCTORALĂ de ȘTIINȚE CHIMICE

Dr. CSI Marcela MIHAI

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

2. Îndeplinirea standardelor IOSUD egale standardelor minimale naționale* ☒ DA | ☐ NU

FIȘA DE ÎNDEPLINIRE A STANDARDELOR IOSUD

Categorie Habilitare/CSI	N_{max}	FIC	FIC _D	FIC _{AP}	FIC _{AC}	h index
Cerinte	50	100	70	50	25	13
Realizat	25	170	167.8	149.6	59.1	21

NB: Factorii de impact (FI) considerați aferenți anului 2024

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 Florica-Adriana**

Data: 08.06.2026

Semnătura:

*se va alege una dintre variante



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FIȘA DE VERIFICARE

a îndeplinirii standardelor IOSUD

	Articole publicate in reviste cu factor de impact	FIC	FIC _D	FIC _{AP}	FIC _{AC}
1.	F. A. Jerca , V. V. Jerca, R. Hoogenboom, <i>Advances and opportunities in the exciting world of azobenzenes</i> , Nature Reviews Chemistry 6 (1) (2022) 51-69, Q1 , https://doi.org/10.1038/s41570-021-00334-w .	51.7	51.7	51.7	-
2.	F. A. Jerca , V. V. Jerca, R. Hoogenboom, <i>Photoresponsive Polymers on the Move</i> , Chem 3 (4) (2017) 533-536, Q1 , https://doi.org/10.1016/j.chempr.2017.09.010 .	19.6	19.6	19.6	-
3.	F. A. Jerca* , C. Muntean, K. Remaut, V. V. Jerca, K. Raemdonck, R. Hoogenboom*, <i>Cationic amino-acid functionalized polymethacryl-amide vectors for siRNA transfection based on modification of poly(2-isopropenyl-2-oxazoline)</i> , Journal of Controlled Release 364 (2023) 687-699, Q1 , https://doi.org/10.1016/j.jconrel.2023.11.001 .	11.5	11.5	11.5	11.5
4.	F. A. Jerca , A. M. Anghelache, E. Ghibu, S. Cecoltan, I. C. Stancu, R. Trusca, E. Vasile, M. Teodorescu, D. M. Vuluga, R. Hoogenboom, V. V. Jerca, <i>Poly(2-isopropenyl-2-oxazoline) Hydrogels for Biomedical Applications</i> , Chemistry of Materials 30 (21) (2018) 7938-7949, Q1 , https://doi.org/10.1021/acs.chemmater.8b03545 .	7.0	7.0	7.0	-
5.	E. Ghibu, V. Vasile, I. Caraș, E. D. Giol, N. D. Banu, D. M. Vuluga, R. Stan, V. V. Jerca*, F. A. Jerca* , <i>Poly(2-isopropenyl-2-oxazoline) Hydrogels with Biodegradable Junction Points for Drug-Delivery Applications</i> , Chemistry of Materials 36 (15) (2024) 7459-7475, Q1 , https://doi.org/10.1021/acs.chemmater.4c01457 .	7.0	7.0	7.0	7.0
6.	C. Tucureanu, E. Ghibu, V. Tofan, E. D. Giol, R. Mitran, F. A. Jerca* , V. V. Jerca*, <i>Assessing protein antifouling performance and hemocompatibility of poly(2-isopropenyl-2-oxazoline) based hydrogels</i> , Applied Materials Today 48 (2026) 103031, Q1 , https://doi.org/10.1016/j.apmt.2025.103031 .	6.9	6.9	6.9	6.9



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7.	M. C. Spiridon, F. A. Jerca* , V. V. Jerca*, D. S. Vasilescu, D. M. Vuluga, <i>2-Oxazoline based photo-responsive azo-polymers. Synthesis, characterization and isomerization kinetics</i> , European Polymer Journal 49 (2) (2013) 452-463, Q1 , https://doi.org/10.1016/j.eurpolymj.2012.11.024 .	6.3	6.3	6.3	6.3
8.	E. Ghibu, D. M. Vuluga, R. Stan, F. A. Jerca* , V. V. Jerca*, <i>Poly(2-isopropenyl-2-oxazoline) hydrogels as multipurpose drug delivery systems: Tailoring molecular interactions for controlled loading and release</i> , European Polymer Journal 242 (2026) 114407, Q1 , https://doi.org/10.1016/j.eurpolymj.2025.114407 .	6.3	6.3	6.3	6.3
9.	M. Cegłowski, V. V. Jerca, F. A. Jerca , R. Hoogenboom, <i>Reduction-Responsive Molecularly Imprinted Poly(2-isopropenyl-2-oxazoline) for Controlled Release of Anticancer Agents</i> , Pharmaceutics 12 (2020) 506, Q1 , https://doi.org/10.3390/pharmaceutics12060506 .	5.5	5.5	-	-
10.	F. A. Jerca* , V. V. Jerca, R. Hoogenboom*, <i>In Vitro Assessment of the Hydrolytic Stability of Poly(2-isopropenyl-2-oxazoline)</i> , Biomacromolecules 22 (12) (2021) 5020-5032, Q1 , https://doi.org/10.1021/acs.biomac.1c00994 .	5.4	5.4	5.4	5.4
11.	P. Yu, T. Sedlačík, L. Parmentier, F. A. Jerca , V. V. Jerca, S. Van Vlierberghe, M. N. Leiske, R. Hoogenboom, <i>Degradable Cell-Adhesive Hybrid Hydrogels by Cross-Linking of Gelatin with Poly(2-isopropenyl-2-oxazoline)</i> , Biomacromolecules 25 (8) (2024) 5332-5342, Q1 , https://doi.org/10.1021/acs.biomac.4c00743 .	5.4	5.4	-	-
12.	M. C. Spiridon, K. Iliopoulos, F. A. Jerca , V. V. Jerca, D. M. Vuluga, D. S. Vasilescu, D. Gindre, B. Sahraoui, <i>Novel pendant azobenzene/polymer systems for second harmonic generation and optical data storage</i> , Dyes and Pigments 114 (2015) 24-32, Q1 , https://doi.org/10.1016/j.dyepig.2014.10.010 .	4.2	4.2	-	-
13.	E. Olăreț, E. Ghibu, A. Șelaru, S. Dinescu, B. Ș. Vasile, V. V. Jerca, I.-C. Stancu*, F. A. Jerca* , <i>Electrospinning and Cross-Linking of Gelatin-Poly(2-Isopropenyl-2-Oxazoline) Nanofibers: A Route to Stable Hybrid Biomaterials</i> ,	4.3	4.3	4.3	4.3



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	Macromolecular Rapid Communications (2025), e00576, Q1, https://doi.org/10.1002/marc.202500576 .				
14	F. A. Jerca , V. V. Jerca, A. M. Anghelache, D. M. Vuluga, R. Hoogenboom, <i>Poly(2-isopropenyl-2-oxazoline) as a versatile platform towards thermoresponsive copolymers</i> , Polymer Chemistry 9(25) (2018) 3473-3478, Q1, https://doi.org/10.1039/c8py00612a .	4.0	4.0	4.0	-
15	F. A. Nicolescu* , V. V. Jerca, D. M. Vuluga, D. S. Vasilescu, <i>Synthesis and Characterization of Side-Chain Poly(methacrylate)s Bearing New Azo-Moieties</i> , Polymer Bulletin 65 (9) (2010) 905-916, Q2, https://doi.org/10.1007/s00289-010-0302-1 .	4.0	4.0	4.0	4.0
16	T. V. Iordache, N. D. Banu, E. D. Giol, D. M. Vuluga, F. A. Jerca* , V. V. Jerca*, <i>Factorial Design Optimization of Polystyrene Microspheres Obtained by Aqueous Dispersion Polymerization in the Presence of Poly(2-ethyl-2-oxazoline) Reactive Stabilize</i> , Polymer International 69 (11) (2020) 1122-1129, Q2, https://doi.org/10.1002/pi.5974 .	3.6	3.6	3.6	3.6
17	T. V. Iordache, A. Sarbu, D. Donescu, C. A. Nicolae, F. A. Jerca , S. O. Dima, <i>Selecting the Nature of Imprinted Molecular Organosilica Sieves with Gallic Acid via Thermal Analyses</i> . Journal of Thermal Analysis and Calorimetry 118 (2) (2014) 1039-1048, Q2, https://doi.org/10.1007/s10973-014-3851-y .	3.1	3.1	-	-
18	F. A. Jerca , V. V. Jerca, F. Kajzar, A. M. Manea, I. Rau, D. M. Vuluga, <i>Simultaneous Two and Three Photon Resonant Enhancement of Third-Order NLO Susceptibility in an Azo-Dye Functionalized Polymer Film</i> , Physical Chemistry Chemical Physics 15 (19) (2013), 7060-7063, Q2, https://doi.org/10.1039/c3cp50547b .	2.9	2.9	2.9	-
19	F. A. Nicolescu* , V. V. Jerca, I. Dancus, A. Petris, T. V. Nicolescu, I. B. Rau, V. I. Vlad, D. S. Vasilescu, D. M. Vuluga, <i>Synthesis and Characterization of SideChain Maleimide-Styrene Copolymers with New Pendant Azobenzene Moieties</i> . Journal of Polymer Research 18 (5) (2011) 1009-1016, Q2, https://doi.org/10.1007/s10965-010-9501-6 .	2.8	2.8	2.8	2.8



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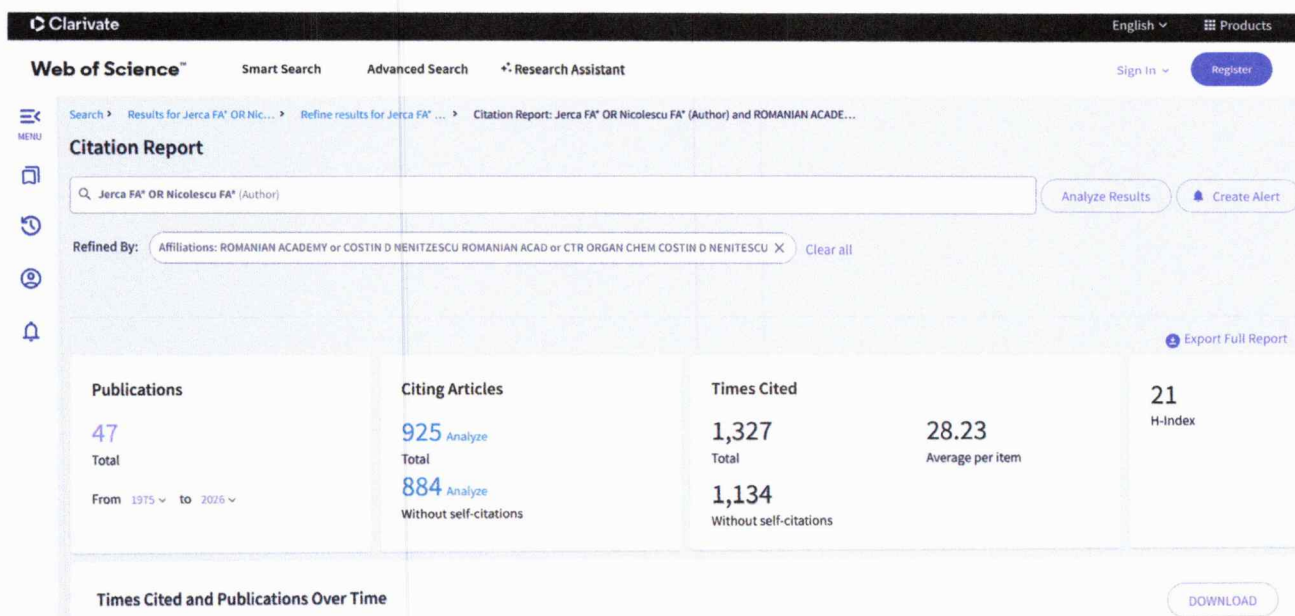
20	F. A. Nicolescu, V. V. Jerca, I. C. Stancu, D. S. Vasilescu, D. M. Vuluga, <i>New Organic-Inorganic Hybrids with Azo-dye Content</i>. Designed Monomers and Polymers 13 (5) (2010) 437-444, Q2, https://doi.org/10.1163/138577210x521332.	2.3	2.3	2.3	-
21	F. A. Nicolescu, V. V. Jerca, C. Draghici, D. M. Vuluga, D.S. Vasilescu, <i>Synthesis and Characterization of Novel Azobenzene Methacrylate Monomers</i>, Designed Monomers and Polymers, 12 (6) (2010) 553-563, Q2, https://doi.org/10.1163/138577209x12478294517116.s	2.3	2.3	2.3	-
22	I.Dancus, V. I. Vlad, A. Petris, S. Frunza, T. Beica, I. Zgura, F. A. Nicolescu, V. V. Jerca, D. M. Vuluga, <i>Low Power Laser Induced Optical Nonlinearities in Organic Molecules</i>, Romanian Reports in Physics 62 (3) (2010) 567-580, Q3, https://rrp.nipne.ro/2010_62_3/Art%2011%20Dancus.pdf.	2.2	-	-	-
23	F. A. Nicolescu, A. M. Albu, V. V. Jerca, D. M. Vuluga, C. Draghici, <i>Synthesis and Copolymerization Study of New Polyimide Precursors with Potential Application in Optical and Photonic Field</i>. Molecular Crystals and Liquid Crystals 486 (2008) 1080-1091, Q3, https://doi.org/10.1080/15421400801917338.	0.7	0.7	0.7	0.7
24	F. A. Jerca, V. V. Jerca, M. C. Spiridon, D. M. Vuluga, D. S. Vasilescu, G. Stanga, D. F. Anghel, <i>Polymer Architectures Containing Azobenzene Type Molecules in Side-Chains Solvatochromic Behaviour</i>, Materiale Plastice, 48 (4) (2011) 273-278, Q3, https://www.revmaterialeplastice.ro/Articles.asp?ID=3167.	0.7	0.7	0.7	-
25	E. Ghibu, N. D. Banu, D. M. Vuluga, R. Stan*, F. A. Jerca*, V. V. Jerca, <i>Thermal properties of poly(2-isopropenyl-2-oxazoline) crosslinked networks</i>, UPB Sci. Bull. Ser. B Chem. Mater. Sci 87 (3) (2025) 73-84, Q4, https://www.scientificbulletin.upb.ro/static/pdfs/rez729_616823.pdf.	0.3	0.3	0.3	0.3
TOTAL		170	167.8	149.6	59.1



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Data:08.06.2026

Semnătura