



ACADEMIA ROMÂNĂ
SCOSAAR

Anexa nr.3

AVIZAT,

Director ȘCOALA DOCTORALĂ

CS I Dr. Habil Mihai Marcela

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	N_{max}	FIC	FIC_D	FIC_{AP}	FIC_{AC}	h index
Habilitare (standarde minimale necesare și obligatorii)	50	100	70	50	25	13
Realizați	50	278.70	278.70	248.70	199.50	20

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. Honciuc Andrei

Data: 26.11.2025

Semnătura: *J. Honciuc*

*se va alege una dintre variante



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FIȘA DE VERIFICARE

a îndeplinirii standardelor IOSUD

Lista cu 50 de lucrări indexate ISI WEB of Science

Nr. Crt.	Articole publicate in reviste indexate ISI Web of Science	FIC	FIC _D	FIC _{AP}	FIC _{AC}
1	A. Honciuc*, M. Honciuc, A. M. Solonaru "Piezoelectric Response and Energy Harvesting Capability in a Moldable PVA/PANi Composite Prepared via Frozen-Gel Polymerization" <i>ACS Applied Electronic Materials</i> 2025, 7, 7776-7790 https://doi.org/10.1021/acsaelm.5c01140	4.7	4.7	4.7	4.7
2	M. Honciuc*, A. Honciuc, A. M. Solonaru "Pickering emulsion-derived polymer microspheres: Protective carriers for anthocyanins with tunable release and colorimetric sensing" <i>Colloids and Surfaces B: Biointerfaces</i> 2025, 255, 114905, https://doi.org/10.1016/j.colsurfb.2025.114905	5.6	5.6	-	-
3	A. M. Solonaru, M. Honciuc, A. Honciuc* "Adsorption performance of water-floating composites for heavy metal removal in marine and freshwater systems" <i>Journal of Environmental Chemical Engineering</i> 2025, 13, 119312 https://doi.org/10.1016/j.jece.2025.119312	7.2	7.2	7.2	7.2
4	M. Honciuc, A. Honciuc* "Scaling Amphiphilicity with Janus Nanoparticles: A New Frontier in Nanomaterials and Interface Science" <i>Nanomaterials</i> 2025, 15, 1079 https://doi.org/10.3390/nano15141079	4.3	4.3	4.3	4.3
5	A. Honciuc*, O.I. Negru, M. Honciuc "Optimizing surface properties and particle morphology for metal ion adsorption: precise tuning via Pickering emulsion polymerization" <i>Nanoscale Advances</i> 2025, 7, 4947-4961 https://doi.org/10.1039/D5NA00417A	4.7	4.7	4.7	4.7
6	M. Asandulesa, A.M. Solonaru, M. Honciuc, F. Tudorache, A. Honciuc* "Flexible Composites from Water-Dispersible Components: Poly(vinyl alcohol), Janus Nanoparticles, and Polyaniline-Toward Mixed Ionic-Electronic Conductors" <i>ACS Applied Polymer Materials</i> 2024, 6, 9559-9569 https://doi.org/10.1021/acsapm.4c01350	4.8	4.8	4.8	4.8
7	A. Honciuc*, O.I. Negru, M. Honciuc, A. M. Solonaru "Polymer Microspheres Carrying Schiff-Base Ligands for Metal Ion Adsorption Obtained via Pickering Emulsion Polymerization" <i>Journal of Composites Science</i> 2024, 8, 271 https://doi.org/10.3390/jcs8070271	3.7	3.7	3.7	3.7



8	A. Honciuc*, O.I. Negru, M. Honciuc "Interfacing Langmuir–Blodgett and Pickering Emulsions for the Synthesis of 2D Nanostructured Films: Applications in Copper Ion Adsorption" <i>Nanomaterials</i> 2024, 14 (9), 809 https://doi.org/10.3390/nano14090809	4.3	4.3	4.3	4.3
9	A Honciuc*, M. Honciuc, A.M. Solonaru "Reversible Cu-Nanoparticle formation in soft hydrogel Composites: Towards Write-Erase displays and fluorescence detection" <i>Journal of Colloid and Interface Science</i> , 2024, 668, 37-49 https://doi.org/10.1016/j.jcis.2024.04.147	9.7	9.7	9.7	9.7
10	M. Honciuc*, A. Honciuc* "Morphological Design and Synthesis of Nanoparticles" <i>Nanomaterials</i> 2024, 14(4), 360 https://doi.org/10.3390/nano14040360	4.3	4.3	4.3	4.3
11	M. Asandulesa, A.M. Solonaru, A. Honciuc* "Effect of Asymmetric Lobe Size on the Molecular Dynamics, Glass Transition, and Dielectric Behavior in Janus Nanoparticles" <i>ACS Applied Nano Materials</i> 2024, 7(3), 3352-3360 https://doi.org/10.1021/acsanm.3c05802	5.5	5.5	5.5	5.5
12	A. Honciuc*, A.M. Solonaru, M. Honciuc "Water-Floating Hydrogel Polymer Microsphere Composites for Application in Hydrological Mining of Cu (II) Ions" <i>Nanomaterials</i> 2023, 13 (19), 2619 https://doi.org/10.3390/nano13192619	4.3	4.3	4.3	4.3
13	A. Honciuc*, A.M. Solonaru, M. Honciuc "Pickering Emulsion Polymerization Technology—Toward Nanostructured Materials for Applications in Metal Ion Extractions from Wastewaters" <i>ACS Applied Polymer Materials</i> 2023, 5 (10), 8012-8022 https://doi.org/10.1021/acsapm.3c01267	4.8	4.8	4.8	4.8
14	A. Honciuc*, O.I. Negru "Asymmetrically Nanostructured 2D Janus Films Obtained from Pickering Emulsions Polymerized in a Langmuir–Blodgett Trough" <i>Micromachines</i> 2023, 14 (7), 1459 https://doi.org/10.3390/mi14071459	3	3	3	3
15	M. Asandulesa, A.M. Solonaru, A.M. Resmerita, A. Honciuc* "Thermal and Dielectric Investigations of Polystyrene Nanoparticles as a Viable Platform—Toward the Next Generation of Fillers for Nanocomposites" <i>Polymers</i> 2023, 15 (13), 2899 https://doi.org/10.3390/polym15132899	4.9	4.9	4.9	4.9
16	A. Honciuc*, O.I. Negru "Monitoring the Surface Energy Change of Nanoparticles in Functionalization Reactions with the NanoTrAPPED Method" <i>Nanomaterials</i> 2023, 13 (7), 1246 https://doi.org/10.3390/nano13071246	4.3	4.3	4.3	4.3



17	A. Honciuc*, A.M. Solonaru, M. Teodorescu "Flexible Composites with Variable Conductivity and Memory of Deformation Obtained by Polymerization of Polyaniline in PVA Hydrogel" <i>Polymers</i> 2022, 14 (21), 4638 https://doi.org/10.3390/polym14214638	4.9	4.9	4.9	4.9
18	O. Pauli, A. Honciuc* "Extraction of Metal Ions by Interfacially Active Janus Nanoparticles Supported by Wax Colloidosomes Obtained from Pickering Emulsions" <i>Nanomaterials</i> 2022, 12 (21), 3738 https://doi.org/10.3390/nano12213738	4.3	4.3	4.3	4.3
19	A.M. Solonaru, M. Asandulesa, A. Honciuc* "Homologous Series of Polyaniline Derivatives Block Copolymers with Amphiphilic and Semiconducting Properties" <i>Polymers</i> 2022, 14 (11), 2149 https://doi.org/10.3390/polym14112149	4.9	4.9	4.9	4.9
20	A. Honciuc*, O.I. Negru "Role of Surface Energy of Nanoparticle Stabilizers in the Synthesis of Microspheres via Pickering Emulsion Polymerization" <i>Nanomaterials</i> 2022, 12 (6), 995 https://doi.org/10.3390/nano12060995	4.3	4.3	4.3	4.3
21	V. Mihali, A. Honciuc* "Self-Assembly of Strongly Amphiphilic Janus Nanoparticles into Freestanding Membranes" <i>Advanced Materials Interfaces</i> 2022, 9 (4), 2101713 https://doi.org/10.1002/admi.202101713	4.4	4.4	4.4	4.4
22	A. Honciuc*, O.I. Negru "NanoTraPPED—A New Method for Determining the Surface Energy of Nanoparticles via Pickering Emulsion Polymerization" <i>Nanomaterials</i> 2021, 11 (12), 3200 https://doi.org/10.3390/nano11123200	4.3	4.3	4.3	4.3
23	V. Mihali, A. Honciuc* "Semiconductor–Insulator (Nano-) Couples with Tunable Properties Obtained from Asymmetric Modification of Janus Nanoparticles" <i>ACS Applied Materials & Interfaces</i> 2021, 13 (41), 49206–49214 https://doi.org/10.1021/acsami.1c14884	8.2	8.2	8.2	8.2
24	C. Kang, A. Honciuc* "A Diversity of Asymmetric Nano-/Microcolloidal Architectures Grown by ATRP from Janus Seeds" <i>Chimia</i> 2019, 73 (4), 324–324 https://doi.org/10.2533/chimia.2019.324	1.6	1.6	1.6	1.6
25	V. Mihali, A. Honciuc* "Evolution of Self-Organized Microcapsules with Variable Conductivities from Self-Assembled Nanoparticles at Interfaces" <i>ACS Nano</i> 2019, 13 (3), 3483–3491 https://doi.org/10.1021/acsnano.8b09625	16.1	16.1	16.1	16.1
26	C. Kang, A. Honciuc* "Versatile triblock Janus nanoparticles: synthesis and self-assembly" <i>Chemistry of Materials</i> 2019, 31 (5), 1688–1695 https://doi.org/10.1021/acs.chemmater.8b05073	7	7	7	7



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27	D. Wu, V. Mihali, A. Honciuc* "pH-responsive Pickering foams generated by surfactant-free soft hydrogel particles" <i>Langmuir</i> 2019, 35 (1), 212-221 https://doi.org/10.1021/acs.langmuir.8b03342	3.9	3.9	3.9	3.9
28	C. Kang, A. Honciuc* "Growth of nano-/microcolloidal architectures from Janus seeds by ATRP" <i>Chemistry of Materials</i> 2018, 30 (21), 7664-7671 https://doi.org/10.1021/acs.chemmater.8b02946	7	7	7	7
29	C. Kang, A. Honciuc* "Self-Assembly of Janus Nanoparticles into Transformable Suprastructures" <i>Journal of Physical Chemistry Letters</i> 2018, 9 (6), 1415-1421 https://doi.org/10.1021/acs.jpcclett.8b00206	4.7	4.7	4.7	4.7
30	C. Kang, A. Honciuc* "Influence of Geometries on the Assembly of Snowman-Shaped Janus Nanoparticles" <i>ACS Nano</i> 2018, 12(4), 3741-3750 https://doi.org/10.1021/acsnano.8b00960	16.1	16.1	16.1	16.1
31	D. Wu, B. P. Binks, A. Honciuc* "Modelling the interfacial energy of surfactant-free amphiphilic Janus nanoparticles from phase inversion in Pickering emulsions" <i>Langmuir</i> 2018, 34(3), 1225-1233 https://doi.org/10.1021/acs.langmuir.7b02331	3.9	3.9	3.9	3.9
32	D. Wu, A. Honciuc* "Design of Janus nanoparticles with pH-triggered switchable amphiphilicity for interfacial applications" <i>ACS Applied Nano Materials</i> 2018, 1 (1), 471-482 https://doi.org/10.1021/acsanm.7b00356	5.5	5.5	5.5	5.5
33	D. Wu, A. Honciuc* "Contrasting mechanisms of spontaneous adsorption at liquid-liquid interfaces of nanoparticles Constituted of and Grafted with pH-responsive polymers" <i>Langmuir</i> 2018, 1(1), 471-482 https://doi.org/10.1021/acs.langmuir.8b00877	3.9	3.9	3.9	3.9
34	V. Mihali, A. Honciuc* "Semiconductive materials with tunable electrical resistance and surface polarity obtained by asymmetric functionalization of Janus nanoparticles" <i>Advanced Materials Interfaces</i> 2017, 1700914-1700925 https://doi.org/10.1002/admi.201700914	4.4	4.4	4.4	4.4
35	Y. Z. Tan, D. Wu, H. T. Lee, H. Wang, A. Honciuc, J. W. Chew* "Synthesis of ligand-carrying polymeric nanoparticles for use in extraction and recovery of metal ions" <i>Colloids and Surfaces A</i> 2017, 533, 179-186 https://doi.org/10.1016/j.colsurfa.2017.08.036	5.4	5.4	—	—



36	F. Zamani, A. Ullah, E. Akhondi, H.J. Tanudjaja, E.R.Cornelissen, A. Honciuc, A.G. Fane, J.W. Chew* "Impact of the surface energy of particulate foulants on membrane fouling" <i>Journal of Membrane Science</i> 2016, 510, 101-111 https://doi.org/10.1016/j.memsci.2016.02.064	9	9	—	—
37	D. Wu, J.W. Chew, A. Honciuc* "Polarity reversal in a homologous series of surfactant-free Janus nanoparticles: toward the next generation of amphiphiles" <i>Langmuir</i> 2016, 32, 6376-6386 https://doi.org/10.1021/acs.langmuir.6b01422	3.9	3.9	3.9	3.9
38	M. Tzirakis, R. Zambail; Y.Z. Tan; J.W. Chew; C. Adlhart, A. Honciuc* "Surfactant-Free Synthesis of Sub-100 nm Polymeric Nanoparticles by One-Step Ultrasonic Assisted Emulsification/Polymerization" <i>RSC Advances</i> 2015, 103218-103228 https://doi.org/10.1039/C5RA23840D	4.6	4.6	4.6	4.6
39	R. Walder, A. Honciuc, D.K. Schwartz*, "Directed nanoparticle motion on an interfacial free-energy gradient", <i>Langmuir</i> 2010, 26(3), 1501-1503 https://doi.org/10.1021/la903753z	3.9	3.9	—	—
40	A. Honciuc*, M. Laurin, S. Albu, M. Sobota, P. Schmuki, J. Libuda, "Controlling the adsorption kinetics via nanostructuring: Pd nanoparticles on TiO ₂ nanotube arrays", <i>Langmuir</i> 2010, 26(17), 14014-14023 https://doi.org/10.1021/la102163a	3.9	3.9	3.9	3.9
41	R. Walder, A. Honciuc, D.K. Schwartz*, "Phospholipid Diffusion at the Oil-Water Interface", <i>Journal of Physical Chemistry B</i> 2010, 114(35), 11484-11488 https://doi.org/10.1021/jp1053869	3.2	3.2	—	—
42	A. Honciuc*, M. Laurin, S. Albu, M. Amende, M. Sobota, R. Lynch, P. Schmuki, J. Libuda, "Preparation and adsorption properties of Pd nanoparticles supported on TiO ₂ nanotubes", <i>Journal of Physical Chemistry B</i> 2010, 114, 20146-20154 https://doi.org/10.1021/jp107791r	3.2	3.2	3.2	3.2
43	A. Honciuc, D.K. Schwartz*, "Probing hydrophobic interactions using trajectories of amphiphilic at hydrophobic/water interface", <i>Journal of the American Chemical Society</i> 2009, 131(16), 5973-5979 https://doi.org/10.1021/ja900607g	15.7	15.7	15.7	—
44	A. Honciuc, A.L. Howard, D.K. Schwartz*, "Single-molecule observations of fatty acid adsorption at fused silica/water interface: Activation energy of attachment", <i>Journal of Physical Chemistry C</i> 2009, 113(6), 2078-2081 https://doi.org/10.1021/jp8051856	3.2	3.2	3.2	—



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45	A. Honciuc, D.Jn. Baptiste, I.P. Campbell, D.K. Schwartz*, "Solvent dependence of activation energy of attachment determined by single molecule observations of surfactant adsorption", <i>Langmuir</i> 2009, 25(13), 7389-7392 https://doi.org/10.1021/la900307f	3.9	3.9	3.9	—
46	A. Honciuc, D.Jn. Baptiste, D.K. Schwartz*, "Hydrophobic interaction microscopy: Mapping the solid/liquid interface using amphiphilic probe molecules", <i>Langmuir</i> 2009, 25(8), 4339-4342 https://doi.org/10.1021/la9004246	3.9	3.9	3.9	—
47	A. Honciuc, A. Harant, D.K. Schwartz*, "Single-molecule observations of surfactant diffusion at solid/solution interface", <i>Langmuir</i> 2008, 24(13), 6562-6566 https://doi.org/10.1021/la8007365	3.9	3.9	3.9	—
48	A. Honciuc; R.M. Metzger*, A. Gong, C. Spangler "Elastic and inelastic electron tunneling spectra of a new rectifying monolayer" <i>Journal of the American Chemical Society</i> 2007, 129 8310-8319 https://doi.org/10.1021/ja068729g	15.7	15.7	15.7	—
49	W.J. Shumate, D.L. Mattern, A. Jaiswal, D.A. Dixon, T.R. White, J. Burgess, A. Honciuc, R.M. Metzger*, "Spectroscopy and rectification of three donor-sigma-acceptor compounds, consisting of a one-electron donor (pyrene or ferrocene), a one-electron acceptor (perylenebisimide), and a C19 swallowtail" <i>Journal of Physical Chemistry B</i> 2006, 110(23), 11146-11159 https://doi.org/10.1021/jp0575512	2.9	2.9	—	—
50	A. Honciuc, A. Otsuka, Y.-H. Wang, S.K. McElwee, S.A. Woski, G. Saito, R. M. Metzger*, "Polarization of charge-transfer bands and rectification in hexadecylquinolinium 7,7,8-tricyanoquinodimethanide and its tetrafluoro analog" <i>Journal of Physical Chemistry B</i> 2006, 110(31), 15085-15093 https://doi.org/10.1021/jp056910q	2.9	2.9	2.9	—
Total		278.7	278.7	248.7	199.5



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Citation Report

Andrei Honciuc (Author)

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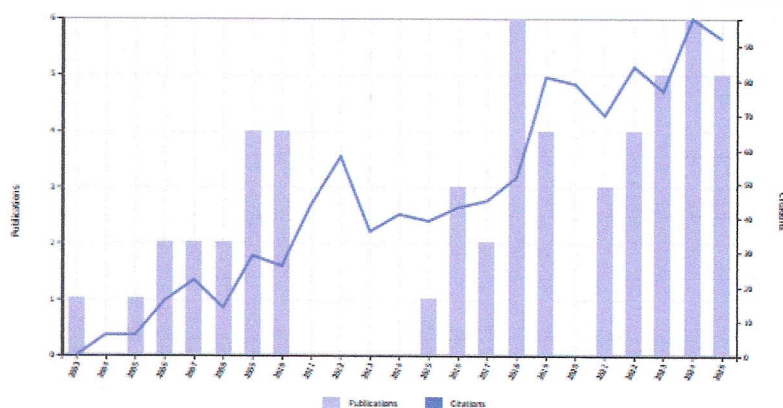
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