

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI  
FACULTATEA DE CONSTRUCȚII DE MAȘINI ȘI MANAGEMENT INDUSTRIAL  
DEPARTAMENTUL DE FIZICĂ

Concurs pentru ocuparea postului de Conferențiar, poz. 6

Disciplinele postului: Fizică

## FIȘA DE VERIFICARE

a îndeplinirii standardelor minime naționale de prezentare la concurs pentru postul de  
Conferențiar Universitar

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Cadru didactic: BĂCĂIȚĂ ELENA SIMONA / Data nașterii: 21.05.1977

Funcția actuală: Șef lucrări / Data numirii în funcția actuală: 01.10.2015 (Decizia TUIASI nr. 1341 / 20.07.2015) / Instituția: Universitatea Tehnică "Gheorghe Asachi" din Iași

Nr crt.	Domeniul de activitate	Criterii minimale	Punctaj obținut	Criteriu indeplinit
1.	Activitate didactica/profesionala (A1)	A = 1	2.829	DA
2.	Activitate de cercetare (A2)	I = 2	2.248	DA
		P = 2	4.286	DA
3.	Recunoasterea impactului activitatii (A3)	C = 20	56.143	DA
		h = 5	11	DA
Punctai total CNATDCU		5	11,103	DA

Data:

Candidat:

Șef lucrări Băcăiță Elena Simona

### Structura activităților și punctajele realizate

Nr crt.	Domeniul activităților	Tipul activităților	Realizari	Punctaje totale
1.	Activitatea didactică și profesională (A1)	A1.2. Capitole de cărți în edituri internaționale recunoscute Web of Science, în calitate de autor	3 capitole carte în edituri WoS	0.715
		A1.4. Cărți, manuale, îndrumare de laborator în edituri naționale sau alte edituri internaționale ca autor, note interne, prezentări susținute pentru aprobarea analizelor de date în vederea colaborărilor mari	3 cărți în edituri naționale	1.250
		A1.5. Capitole de cărți în edituri naționale sau alte edituri internaționale ca autor	5 capitole carte edituri internaționale	0.216
		A1.8. Brevete de invenție naționale acordate	1 brevet național	0.100
		A1.9. Director/responsabil/coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale, proiecte de infrastructură	1 program de formare post-universitar coordonat	0.500
		A1.10. Director/responsabil pentru proiecte de cercetare câștigate prin competiție națională sau internațională	1 proiect cercetare câștigat	0.048
TOTAL INDICATOR A1				A = 2.829
2.	Activitatea de cercetare (A2)	A2.1. Articole științifice originale în extensor ca autor	21 articole indexate WoS	I = 2.248
		A2.2. Articole științifice originale în extenso ca prim autor sau autor corespondent	7 articole indexate WoS ca prim autor sau autor corespondent	P = 4.286
TOTAL INDICATOR A2				6.534
3.	Recunoașterea și impactul activității (A3)	A3.1. Citări în reviste științifice cu factor de impact WoS	280 citări (fără auto-citări) 13 citări/articol (în medie)	C= 56.143
		A3.2. Indicele Hirsch	11	h = 11
TOTAL INDICATOR A3				57.143

## DETALIERE INDICATORI

### 1. ACTIVITATEA DIDACTICĂ ȘI PROFESIONALĂ

Nr crt.	Tipul activităților	$n_i$	$n_i^{ef}$	Punctaj /indicatori
<b>A1.2. Capitoale de cărți în edituri internaționale recunoscute Web of Science, în calitate de autor</b>				
1.	M. Agop, D. Vasincu, D. Timofte, <b>E. S. Bacăiță</b> , A. Agop, S. A. Irimiciuc, "Complex Systems with Self-Elimination of Dissipation with Implication in BioStructural Behavior Via Nondifferentiability" in <i>Fractal Analysis - Applications in Health Sciences and Social Sciences</i> , 23 pg., Intech Publishing House, Rijeka Croația, 2017, ISBN 978-953-51-3214-1	6	5.5	<b>0.182</b>
2.	M. Agop, C. Buzea, <b>S. Băcăiță</b> , A. Stroe, M. Popa, „Quantum Effects Through a Fractal Theory of Motion” in <i>Advances in Quantum Mechanics</i> , 56 pg., Intech Publishing House, Rijeka Croația, 2013, ISBN 978-953-51-1089-7	5	5	<b>0.200</b>
3.	M. Agop, D. Magop, <b>S. Băcăiță</b> , "Fractal hydrodynamic model and its implications" in <i>New developments in hydrodynamics research</i> , 52 pg., Nova Science Publishers Inc. New York, 2012, ISBN: 978-1-62081-223-5	3	3	<b>0.333</b>
<b>TOTAL INDICATOR A1.2</b>				<b>0.715</b>
<b>A1.4. Cărți, manuale, îndrumare de laborator în edituri naționale sau alte edituri internaționale ca autor, note interne, prezentări susținute pentru aprobarea analizelor de date în vederea colaborărilor mari</b>				
1.	<b>E. S. Băcăiță</b> , <i>Fizică generală – curs</i> , 137 pg., Editura Performantica, 2023, ISBN 978-606-685-989-9	1	1	<b>0.500</b>
2.	<b>E. S. Băcăiță</b> , <i>Fizică – îndrumar de laborator</i> , 117 pg., Editura Performantica, 2023, ISBN 978-606-685-991-2	1	1	<b>0.500</b>
3.	M. Agop, <b>S. Băcăiță</b> , <i>Spatiul-timp fractalic și straturi duble în plasme de descarcare</i> , Editura Ars-Longa Iasi, ISBN: 978-973-8912-58-8, 200 pg., 2007.	2	2	<b>0.250</b>
<b>TOTAL INDICATOR A1.4</b>				<b>1.250</b>
<b>A1.5. Capitoale de cărți în edituri naționale sau alte edituri internaționale ca autor</b>				
1.	I. Ionita, <b>S. Băcăiță</b> , A. Antici, E. Poll, P.D. Ioannou, M. Agop, "An extended model of the scale relativity theory and its implications. Some properties of matter" in <i>The fractal and its implications in the material science</i> , 30 pg., Athens University Press, 2008, ISBN: 978-960-92410-1-4	6	5,5	<b>0.036</b>
2.	M. Gartu, <b>S. Băcăiță</b> , T. Dandu Bibiri, M. Agop, "Weyl-Dirac gravitation and fractal space-time" in <i>The fractal and its implications in the material science</i> , 30 pg., Athens University Press, 2008, ISBN: 978-960-92410-1-4	5	5	<b>0.040</b>
3.	M. Agop, P. Vizureanu, <b>S. Băcăiță</b> , C. Bahrim, "On the plasma-superconducting tube interaction by means of the electrical double layers" in <i>Particles and Fields</i> , 9 pg., Athens University Press, 2005, ISBN 960-92410-0-X	4	4	<b>0.050</b>
4.	M. Agop, C. Stan, D. Alexandroaiei, <b>S. Băcăiță</b> , "Quasistatic and dynamic properties of the DC or AC current driven double layers" in <i>Particles and Fields</i> , 14 pg., 2005, Athens University Press, ISBN 960-92410-0-X	4	4	<b>0.050</b>
5.	S. Gurlui, M. Agop, M. Strat, G. Strat, <b>S. Băcăiță</b> , "Experimental and theoretical investigations of the anode double layers" in <i>Particles and Field</i> , 13 pg., 2005, Athens University Press, pp. 289-302, 2005, ISBN 960-92410-0-X	5	5	<b>0.040</b>

TOTAL INDICATOR A1.5			0.216
<b>A8. Brevete de invenție naționale acordate</b>			
1.	C. S. Stan, P. Horlescu, M. Agop, C. A. Peptu, <b>E. S. Băcăiță</b> , <i>Preparation of photoluminescent aerogel used in lighting source, involves preparing carbon dot-based nanostructure doped with trivalent yttrium using yttrium trichloride and N-hydroxysuccinimide and introducing into polymer matrix</i> , RO133780, 2018	5	0.100
TOTAL INDICATOR A1.8			0.100
<b>A9. Director/responsabil/coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale, proiecte de infrastructură</b>			
1.	Director program de formare continuă „ <i>Perfecționarea teoretică și practică a cadrelor didactice din învățământul preuniversitar pentru folosirea tehnologiilor educaționale moderne în predarea fizicii și disciplinelor tehnice</i> ”, acreditat prin OM 4383 / 22.08.2014		0.500
TOTAL INDICATOR A1.9			0.500
<b>A10. Director/responsabil pentru proiecte de cercetare câștigate prin competiție națională sau internațională</b>			
1.	Proiect mobilitate PN-III-P1-1.1-MC-2017-1154	4816 Euro	0.048
TOTAL INDICATOR A1.10			0.048
TOTAL INDICATOR A1			2.829

## 2. ACTIVITATEA DE CERCETARE (A2)

### A2.1. Articole științifice originale în extensor ca autor

Nr. crt.	Autori	$n_i$	$n_i^{ef}$	AIS*	Punctaj
1.	<b>E. S. Bacaita</b> , D. M. Rață, A. N. Cadinoiu, V. Ghizdovăț, M. Agop, A. C. Luca, <i>Drug release from nanoparticles (polymeric nanocapsules and liposomes) mimed through a multifractal tunneling-type effect</i> , Polymers, 15(4), 1018, 2023, doi: 10.3390/polym15041018	6	5.5	0.612	0.111
2.	<b>E.S. Bacaita</b> , C. A. Peptu, C. L. Savin (Logican), M. Lutcanu, M. Agop, <i>Manifest/Non-manifest drug release patterns from polysaccharide based hydrogels – case study on cyclodextrin-kappa carrageenan crosslinked hydrogels</i> , Polymers, 13(23), 4147, 2021, doi: 10.3390/polym13234147	5	5	0.612	0.122
3.	C. A. Peptu, <b>E.S. Bacaita</b> , C. L. Savin (Logican), M. Lutcanu, M. Agop, <i>Hydrogels based on alginates and carboxymethyl cellulose with modulated drug release – an experimental and theoretical study</i> , Polymers, 13(24), 4461, 2021, doi: 10.3390/polym13244461	5	5	0.612	0.122
4.	A. N. Cadinoiu, D. M. Rata, , L. I. Atanase, C. T. Mihai, <b>S.E. Bacaita</b> , M. Popa, <i>Formulations based on drug loaded aptamer-conjugated liposomes as a viable strategy for the topical treatment of basal cell carcinoma – in vitro tests</i> , Pharmaceutics, 13(6), 866, 2021, doi: 10.3390/pharmaceutics13060866	6	5.5	0.879	0.160
5.	C. Mihalache, D. M. Rață, A. N. Cadinoiu, X. Patras, E.V. Sindilar, <b>E. S. Bacaita</b> , M. Popa, L. I. Atanase, O. M. Daraba, <i>Bupivacaine - loaded chitosan hydrogels for topical anesthesia in dentistry</i> , Polym. Int., 69(11), 1152-1160, 2020, doi: 10.1002/pi.6052	9	7	0.384	0.055
6.	D.M. Rață, A. N. Cadinoiu, , L. I. Atanase, <b>E. S. Bacaita</b> , C. Mihalache, O. M. Daraba, D. Gherghel, M. Popa, <i>In vitro behavior of aptamer-functionalized polymeric nanocapsules loaded with 5-fluorouracil for targeted therapy</i> , Mater. Sci. Eng. C – Mater. Biol. Appl., 103, 109828, 2019, doi: 10.1016/j.msec.2019.109828	8	6.5	0.794	0.122
7.	<b>E. S. Bacaita</b> , C.S. Stan, M. Agop, G. Cioca, <i>Spectral properties of HEMA/poly(HEMA) as ligand in luminescent europium based complexes through computational investigation</i> , Rev. Chim., 69(9), 2430-2434, 2018	4	4	0.052	0.013
8.	G. Cioca, M. Pinteala, <b>E. S. Bacaita</b> , I. Oprea, I. Crumpei Tanasa, S. R. Volovat, V. S. Dragan, S. Trocaru, C. Anton, <i>Nonlinear behaviors in gene therapy theoretical and experimental aspects</i> , Mater. Plast., 55(3), 340-343, 2018	9	7	0.065	0.009
9.	G. Cioca, <b>E.S. Bacaita</b> , M. Agop, C. Lupascu Ursulescu, <i>Anisotropy influences on the drug delivery mechanisms by means of joint invariant functions</i> , Comput. Math. Method Med., 2017,5748273, 2017, doi: 10.1155/2017/5748273	4	4	0.426	0.106
10.	A. Grigorovici, <b>E.S. Bacaita</b> , V.P.Păun, C. Grecea, I. Butuc, M. Agop, O.Popa, <i>Pairs generating as a consequence of the fractal entropy: theory and applications</i> , Entropy, 19(3), 128, 2017, doi: 10.3390/e19030128	7	6	0.564	0.094
11.	<b>E. S. Bacaita</b> , M. Agop, <i>A multiscale mechanism of drug release from polymeric matrices: confirmation through a nonlinear theoretical model</i> , Phys. Chem. Chem. Phys., 18(31), 21809-21816, 2016, doi: 10.1039/c6cp022259f	2	2	1.124	0.562
12.	L. Balaita, J. F. Chailanb, Xuan Hoan Nguyenc, <b>S. Bacaita</b> , M. Popa, <i>Hybrid chitosan-gelatine magnetic polymer particles for drug release</i> , J. Optoelectron. Adv. Mater., 16(11-12), 1463-1471, 2014	5	5	0.089	0.018

Nr. crt.	Autori	$n_i$	$n_i^{ef}$	AIS*	Punctaj
13.	E. S. Băcăiță, B. C. Ciobanu, M. Popa, M. Agop, J. Desbrieres, <i>Phases in the temporal multiscale evolution of the drug release mechanism in IPN-type chitosan based hydrogels</i> , Phys. Chem. Chem. Phys., 16(47), 25896-25905, 2014, doi: 10.1039/c4cp03389b	5	5	1.209	0.242
14.	V. Radu, S. Băcăiță, A. Uliniuc, M. Popa, S. Susanu, <i>Fractal Hydrodynamic model for drug release processes from starch based hydrogels</i> , Mater. Plast., 50(1), 18-22, 2013	5	5	0.045	0.009
15.	A. Durdureanu-Angheluta, S. Băcăiță, V. Radu, M. Agop, L. Ignat, C.M. Uritu, S.S. Maier, M. Pinteala, <i>Mathematical modeling of the release profile of anthraquinone-derived drugs encapsulated on magnetite nanoparticles</i> , Rev. Roum. Chim., 58(2-3), 217-221, 2013	8	6.5	0.086	0.013
16.	A. Uliniuc, T. Hamaide, M. Popa, S. Băcăiță, <i>Modified starch-based hydrogels cross-linked with citric acid and their use as drug delivery systems for levofloxacin</i> , Soft Mater., 11(4), 483-493, 2013, doi: 10.1080/1539445X.2012.710698	4	4	0.384	0.096
17.	D. Magop, S. Băcăiță, C. Peptu, M. Popa, M. Agop, <i>Non-differentiability at mesoscopic scale in drug release processes from polymer microparticles</i> , Mater. Plast., 49(2), 101-105, 2012	5	5	0.036	0,007
18.	E. S. Băcăiță, C. Bejinariu, B. Zoltan, C. Peptu, G. Andrei, M. Popa, D. Magop, M. Agop, <i>Nonlinearities in drug release process from polymeric microparticles: long-time-scale behavior</i> , J. Appl. Math., 653720, 2012, doi: 10.1155/2012/653720	8	6.5	0.154	0.024
19.	M. Agop, D. Alexandroaiei, A. Cerepaniuc, S. Băcăiță, <i>El Naschie's epsilon((infinity)) space-time and patterns in plasma discharge</i> , Chaos Solitons Fractals, 30(2), 470-789, 2006, doi: 10.1016/j.chaos.2005.11.072	4	4	0.620	0.155
20.	S. Gurlui, M. Agop, M. Strat, G. Strat, S. Băcăiță, A. Cerepaniuc, <i>Some experimental and theoretical results on the anodic patterns in plasma discharge</i> , Phys. Plasmas, 13(6), 063503, 2006, doi: 10.1063/1.2205195	6	5.5	0.806	0.147
21.	S. Gurlui, M. Agop, M. Strat, G. Strat, S. Băcăiță, <i>Experimental and theoretical investigations of anode double layer</i> , Jpn. J. Appl. Phys., 44(5A), 3253-3259, 2005, doi: 10.1143/JJAP.44.3253	5	5	0.403	0.081
TOTAL INDICATOR I					2.248

## A2.2. Articole științifice originale în extenso ca prim autor sau autor corespondent

Nr. crt.	Autori	AIS*	Punctaj
1.	<b>E. S. Bacaita</b> , D. M. Rață, A. N. Cadinoiu, V. Ghizdovăț, M. Agop, A. C. Luca, <i>Drug release from nanoparticles (polymeric nanocapsules and liposomes) mimed through a multifractal tunneling-type effect</i> , Polymers, 15(4), 1018, 2023, doi: 10.3390/polym15041018	0.612	0.612
2.	<b>E.S. Bacaita</b> , C. A. Peptu, C. L. Savin (Logican), M. Lutcanu, M. Agop, <i>Manifest/Non-manifest drug release patterns from polysaccharide based hydrogels – case study on cyclodextrin-kappa carrageenan crosslinked hydrogels</i> , Polymers, 13(23), 4147, 2021, doi: 10.3390/polym13234147	0.612	0.612
3.	C. A. Peptu, <b>E.S. Bacaita</b> , C. L. Savin (Logican), M. Lutcanu, M. Agop, <i>Hydrogels based on alginates and carboxymethyl cellulose with modulated drug release – an experimental and theoretical study</i> , Polymers, 13(24), 4461, 2021, doi: 10.3390/polym13244461	0.612	0.612
4.	<b>E. S. Bacaita</b> , C.S. Stan, M. Agop, G. Cioca, <i>Spectral properties of HEMA/poly(HEMA) as ligand in luminescent europium based complexes through computational investigation</i> , Rev. Chim., 69(9), 2430-2434, 2018	0.052	0.052
5.	G. Cioca, M. Pinteala, <b>E. S. Bacaita</b> , I. Oprea, I. Crumpei Tanasa, S. R. Volovat, V. S. Dragan, S. Trocaru, C. Anton, <i>Nonlinear behaviors in gene therapy theoretical and experimental aspects</i> , Mater. Plast., 55(3), 340-343, 2018	0.065	0.065
6.	<b>E. S. Bacaita</b> , M. Agop, <i>A multiscale mechanism of drug release from polymeric matrices: confirmation through a nonlinear theoretical model</i> , Phys. Chem. Chem. Phys., 18(31), 21809-21816, 2016, doi: 10.1039/c6cp022259f	1.124	1.124
7.	<b>E. S. Bacaita</b> , B. C. Ciobanu, M. Popa, M. Agop, J. Desbrieres, <i>Phases in the temporal multiscale evolution of the drug release mechanism in IPN-type chitosan based hydrogels</i> , Phys. Chem. Chem. Phys., 16(47), 25896-25905, 2014, doi: 10.1039/c4cp03389b	1.209	1.209
TOTAL INDICATOR P			4.286

### 3. RECUNOAȘTEREA IMPACTULUI ACTIVITĂȚII (A3)

Nr. crt	Autori	$n_i$	$n_i^{ef}$	Număr citări	Punctaj
1.	<b>E. S. Bacaïta</b> , D. M. Rață, A. N. Cadinoiu, V. Ghizdovăț, M. Agop, A. C. Luca, <i>Drug release from nanoparticles (polymeric nanocapsules and liposomes) mimed through a multifractal tunneling-type effect</i> , Polymers, 15(4), 1018, 2023, doi: 10.3390/polym15041018	6	5.5	1	<b>0.182</b>
	1.1 Harja, M. Caftanachi, M. Fanache, G. Ciobanu, Sci. Study Res. – Chem C, 24(1), 49-60, 2023				
2.	C. A. Peptu, <b>E.S. Bacaïta</b> , C. L. Savin (Logican), M. Lutcanu, M. Agop, <i>Hydrogels based on alginates and carboxymethyl cellulose with modulated drug release – an experimental and theoretical study</i> , Polymers, 13(24), 4461, 2021, doi: 10.3390/polym13244461	5	5	5	<b>1.000</b>
	2.1 C. E. Iurciuc, M. Popa, L.I. Atanase, O. Popa, et. al., Drug Deliv., 29(1), 2883-2896, 2022 2.2 M. S. Rafsanjani, A. T. Naeini, A. Meimandi-Parizi, F. Nowzari, et. al., Vet. Med. Sci, 8(6), 2726-2737, 2022 2.3 C. Filote, E. Lanez, V. I. Popa, Polymers, 14(19), 4106, 2022 2.4 W. L. Zhang, Y. N. Liu, Y. Xuan, S. B.A. Zhang, Gels, 8(9), 529, 2022 2.5 H. Nasution, H. Harahap, N. F. Dalimunthe, et. al., Gels, 8(9), 568, 2022				
3.	A. N. Cadinoiu, D. M. Rata, , L. I. Atanase, C. T. Mihai, <b>S.E. Bacaïta</b> , M. Popa, <i>Formulations based on drug loaded aptamer-conjugated liposomes as a viable strategy for the topical treatment of basal cell carcinoma – in vitro tests</i> , Pharmaceutics, 13(6), 866, 2021, doi: 10.3390/pharmaceutics13060866	6	5.5	15	<b>2.727</b>
	3.1 Y. C. Zhao, S. Y. Ye, Y. Zhu, Y. Chen, et. al., J. Drug. Target., 2023, doi: 10.1080/1061186X.2023.2197570 3.2 S. I. Kaykanat, A. K. Uguz, Biomicofluidics, 17(2), 021502, 2023 3.3 M. Iman, S. A. Moosavian, P. Zamani, M. R. Jaafari, J. Drug Deliv. Sci. Technol., 81, 104255, 2023 3.4 M. C. Sanchez-Cervino, C. P. Fuioga, L.I. Atanase, et. al., Polymers, 15(4), 795, 2023 3.5 M. C. Yang, S.Y.H. Abdalkarim, H. Y. Yu, et. al., Carbohydr. Polym., 301(B), 120350, 2023 3.6 A. M. Piasek, P. Musolf, A. Sobiepanek, Curr. Med. Chem., 30(8), 953-973, 2023 3.7 D. Saindane, S. Bhattacharya, R. Shah, B. G. Prajapati, All Life, 15(1), 843-869, 2022 3.8 Ali, S. H. Althakfi, M. Suhail, et. al., Polymers, 14(24), 5445, 2022 3.9 Y. H. Xu, Y. Cai, Y. Meng, L. Wu, et. al., J. Microencapsul., 39(6), 539-551, 2022 3.10 H. M. Guo, Y. G. Su, C. J. Guo, Q. Chen, et. al., Biocatal. Agric. Biotechnol., 44, 102441, 2022 3.11 E. B. Souto, R. da Ana, V. Vieira, J. F. Fanguiero, J. Dias-Ferreira, et. al., Neoplasia, 30, 100810, 2022 3.12 T. Wei, Y. W. Wang, Y. C. Wu, et. al., Pharmaceutics, 14(5), 1108, 2022 3.13 M. Yoosefian, M. Fouladi, L. I. Atanase, Nanomaterials, 12(6), 926, 2022 3.14 B. Rabha, K.K. Bharadwaj, S. Pai, et. al., Polymers, 13(23), 4114, 2021 3.15 M. Schlich, U.M. Musazzi, V. Campani, M. Biondi, et. al., Drug Deliv. Transl. Res., 12(8), 1811-1828, 2022				



4.	C. Mihalache, D. M. Rață, A. N. Cadinoiu, X. Patras, E.V. Sindilar, <b>E. S. Bacaita</b> , M. Popa, L. I. Atanase, O. M. Daraba, <i>Bupivacaine - loaded chitosan hydrogels for topical anesthesia in dentistry</i> , Polym. Int., 69(11), 1152-1160, 2020, doi: 10.1002/pi.6052	9	7	9	1.286
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TOTAL INDICATOR C	
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**Data:**  
**08.06.2023**

**Candidat:**  
**Şef lucrări Băcăiţă Elena Simona**

