

Director CSUD,
Prof. dr. Anca-Mirela ANDREICA

Director SD,
Prof. dr. Vasile CHIȘ

Fișa de îndeplinire a standardelor minime CNATDCU

Conf. dr. J rai-Szab  Ferenc

1. Activitatea didactica si profesionala

Tipul activitatilor	Subcapitol	N_autori	ni_ef	Ai	Explicatii
1. Carti in edituri internationale recunoscute Web of Science in calitate de autor	1,1		0,00	0,00	
	1,2		0,00	0,00	
	1,3		0,00	0,00	
	Total:			0,00	
2. Capitoare de carti in edituri internationale recunoscute Web of Science in calitate de autor/Review-uri in reviste cotate ISI	2,1	7	6,00	0,17	NAGY LADISLAU, JARAI-SZABO FERENC, BORBELY SANDOR, Arthanayaka T, Lamichhane B. R., Hasan A, Schulz Michael, Wave Packet Scattering in Intermediate-Energy p-He Collisions, World Scientific Publishing, 2019
	2,2		0,00	0,00	
	Total:			0,17	
3. Carti in edituri internationale recunoscute Web of Science in calitate de editor	3,1		0,00	0,00	
	3,2		0,00	0,00	
	3,3		0,00	0,00	
	Total:			0,00	
4. Carti, manuale, indrumare de laborator in edituri nationale sau alte edituri internationale ca autor, note interne, prezentari sustinute pentru aprobarea analizelor de date in cadrul colaborarilor mari	4,1	3	3,00	0,17	L�z�r Zsolt, L�z�r J�zsef, J�rai-Szab� Ferenc, Numerikus m�dszerek, Presa Universitara Clujeana, ISBN 978-973-610-763-4, 978-973-610-756-6, 2008
	4,2	4	4,00	0,13	N�da �rp�d, S�rk�zi Zsuzsa, J�rai-Szab� Ferenc, De�k R�bert, Mechanika �s h�tan labor�t�riumi jegyzet (Laboratory workbook of mechanics and thermodynamics), Presa Universitara, Cluj-Napoca, ISBN 973-610-420-6, 2006
	4,3		0,00	0,00	
	Total:			0,29	
5. Capitoare de carti in edituri nationale sau alte edituri internationale ca autor	5,1		0,00	0,00	
	5,2		0,00	0,00	
	5,3		0,00	0,00	
	Total:			0,00	
6. Lucrari in extenso (cel putin 3 pagini) publicate in Proceedings-uri indexate ISI	6,1	5	5,00	0,04	Baran J.L., Das S., J�rai-Szab� F., Nagy L., Tanis J.A., Interferences in electron emission spectra from 1, 3 and 5 MeV H + + N2 collisions, Journal of Physics: Conference Series, 2007, 58, 215, DOI: 10.1088/1742-6596/58/1/045, Proceedings of 13TH INTERNATIONAL CONFERENCE ON THE PHYSICS OF HIGHLY CHARGED IONS 28 August–1 September 2006, Queen's University Belfast, Northern Ireland, UK
	6,2	3	3,00	0,07	Sarkozi, Zsuzsa; Borbely, Sandor; J�rai-Szabo, Ferenc, Deepening Secondary Students Understanding of Physics through Escape Games, AIP Conference Proceedings, 2019, 2071, 050001, DOI: 10.1063/1.5090085, Proceedings of TIM 18 PHYSICS CONFERENCE, 24–26 May 2018, Timisoara, Romania
	6,3	4	4,00	0,05	Bakos K., Dombi A., J�rai-Szab� F., N�da Z., Fragmentation of drying paint layers, AIP Conference Proceedings, 2013, 1564, 205, DOI: 10.1063/1.4832819, Proceedings of 12th TIM Physics Conference of the West-University-of-Timisoara 2013
	6,4	8	6,50	0,03	Papp I., Ercsey-Ravasz M., Deritei D., Sumi R., J�rai-Szab� F., Florian R.V., C�buz A.I., L�z�r Z.I.The p-index: Hirsch index of individual publications, Proceedings of ISSI 2013 - 14th International Society of Scientometrics and Informetrics Conference 2013 vol. 2 2086-2088, ISBN: 9783200031357, https://www.issi-society.org/proceedings/issi_2013/ISSI_Proceedings_Volume_I.pdf

	6,5	7	6,00	0,03	Járai-Szabó F., Kuttesch A., Aştılean S., Néda Z., Chakrapami N., Ajayan P.M., Vajtai R., Spring-block type models for capillarity-driven self-organized nanostructures, Journal of Optoelectronics and Advanced Materials 2006, 1083-1087, Colloquium on Fungi as Model Organisms in Research and Biotechnology III Jun 2006
	6,6	2	2,00	0,10	Járai-Szabó F., Nagy L., Impact parameter method calculations for fully differential ionization cross sections, Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms 2009, 267, 292-294, DOI: 10.1016/j.nimb.2008.10.064, 4th Conference on Elementary Processes in Atomic Systems Jan 2009
	6,7	3	3,00	0,07	Járai-Szabó F., Nagy L., Fritzsche S., Correlation effects for double K-shell vacancy production in lithium by fast charged projectile impact, Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms 2005, 233, 276-279, DOI: 10.1016/j.nimb.2005.03.121, 8th Workshop on Fast Ion-Atom Collisions May 2005
	Total:			0,39	
7. Brevete de inventie internationale acordate	7,1		0,00	0,00	
	7,2		0,00	0,00	
	7,3		0,00	0,00	
	Total:			0,00	
8. Brevete de inventie nationale acordate	8,1		0,00	0,00	
	8,2		0,00	0,00	
	8,3		0,00	0,00	
	Total:			0,00	
9. Director/responsabil/coordonator pentru programe de studii. Programe de formare continua, proiecte educationale si proiecte de infrastructura (proiectele de cercetare se exclud)	9,1	1		0,50	Coordonator program de studiu FIZICĂ INFORMATICĂ (LIMBA MAGHIARĂ) (2015-2020), persoană de contact la acreditare
	9,2	1		0,50	Coordonator program de studiu FIZICĂ INFORMATICĂ (LIMBA MAGHIARĂ) (2020-2025), persoană de contact la acreditare
	9,3	1		0,50	Coordonator program de studiu FIZICĂ INFORMATICĂ (LIMBA MAGHIARĂ) (2025-2030), persoană de contact la acreditare
	9,4	1		0,50	Responsabil pentru organizarea proiectului educațional de anvergură internațională: a XXXII-a Conferință Națională a Cercurilor Științifice Studențești (XXXII. OTDK) – Secția Fizică, Științele Pământului și Matematică, Cluj-Napoca, 2015. Volumul de rezumate al conferinței (vezi lista comitetului de organizare): https://otdk.hu/wp-content/uploads/2026/05/XXXIIOTDK_FiFoMa_rezumekotet.pdf
	Total:			2,00	
10. Director/responsabil pentru proiecte de cercetare in valoare Vi EURO castigate prin competitie nationala sau internationala (proiectele de la punctul 9 se exclud). Sumele in lei sau in alte valute se convertesc in EURO la cursul mediu din anul respectiv conform www.bnr.ro pentru perioada de dupa 1999 si la cursul din 1999 pentru perioada anterioara. Responsabilii de proiect sunt cei care conduc o echipa de cercetare, fiind mentionati ca atare in proiectul depus; in cazul lor se considera doar suma aferenta echipei conduse.	10,1	75000		0,75	Grant cercetare PNII-RU PD 404, MODELAREA TEORETICA SI EXPERIMENTALA A FENOMENELOR COMPLEXE DIN TRAFICUL RUTIER, Contract de finantare 157 / 29.07.2010
	10,2			0,00	
	10,3			0,00	
	10,4			0,00	
	Total:	75000,00		0,75	

Punctaj A:

3,60

Fişa de îndeplinire a standardelor minime CNATDCU

Conf. dr. Járai-Szabó Ferenc

2-3. Activitatea de cercetare şi Recunoaşterea impactului activităţii

Nr. crt	Autori	Titlu articol	Revista	An	Vol.	Pag.		DOI	ISSN	Nr. autori	N_ef	IF	AIS	AIS/N_ef	IF/N_ef	Nr. citari	Nr. cit/N_ef	Prim (0 sau 1)	AIS_Prim_1	Cvartila (Q1, Q2, Q3 sau Q4)
1	Ciobanu, AC; Sivoglo, V; Maican, D; Járai-Szabó, F; Bálint, Z	Reply to Correspondence by Kleebayoon and Wiwanitkit	TECHNICAL INNOVATIONS & PATIENT SUPPORT IN RADIATION ONCOLOGY	2025	35	100342		10.1016/j.tipsro.2025.100332	2405-6324	5	5	2,000	0,000	0,000	0,400	0	0,000	0	0,000	Q2
2	Ciobanu, AC; Sivoglo, V; Maican, D; Járai-Szabó, F; Bálint, Z	Custom-made, 3D-printed bolus cap for a case of scalp metastasis: A single-institution study	TECHNICAL INNOVATIONS & PATIENT SUPPORT IN RADIATION ONCOLOGY	2025	35	100332		10.1016/j.tipsro.2025.100332	2405-6324	5	5	2,000	0,000	0,000	0,400	2	0,400	0	0,000	Q2
3	Ciobanu, AC; Petcu, LC; Járai-Szabó, F; Balint, Z	Validation of a 3D printed bolus for radiotherapy: a proof-of-concept study	BIOMEDICAL PHYSICS & ENGINEERING EXPRESS	2025	11	25033		10.1088/2057-1976/adb15d	2057-1976	4	4	2,000	0,331	0,083	0,500	4	1,000	0	0,000	Q3
4	Ciobanu, AC; Petcu, LC; Járai-Szabó, F; Bálint, Z	Exploring the impact of filament density on the responsiveness of 3D-Printed bolus materials for high-energy photon radiotherapy	PHYSICA MEDICA-EUROPEAN JOURNAL OF MEDICAL PHYSICS	2024	127	104849		10.1016/j.ejmp.2024.104849	1724-191X	4	4	2,700	0,715	0,179	0,675	5	1,250	0	0,000	Q1
5	Gergely, A; Biró, TS; Járai-Szabó, F; Nédá, Z	Statistics of earthquakes based on the extended LGGR model	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS	2024	650	129983		10.1016/j.physa.2024.129983	1873-2119	4	4	3,100	0,553	0,138	0,775	1	0,250	0	0,000	Q2
6	Kuki, A; Lipcsei, S; Gere, I; Járai-Szabó, F; Gergely, A; Ugli, D; Ispánovity, PD; Dankházi, Z; Groma, I; Nédá, Z	Statistical analogies between earthquakes, micro-quakes in metals and avalanches in the 1D Burridge-Knopoff model	GEOFIZIKA	2023	40	1		10.15233/gfz.2023.40.4	1846-6346	10	7,5	0,900	0,316	0,042	0,120	3	0,400	0	0,000	Q3
7	Toth, Istvan; Lazar, Zsolt, I; Varga, Levente; Jaraí-Szabo, Ferenc; Papp, Istvan; Florian, Razvan, V; Ercsey-Ravasz, Maria	Mitigating ageing bias in article level metrics using citation network analysis	Journal of informetrics	2021	15	101105		10.1016/j.joi.2020.101105	1751-1577	7	6	4,373	3,000	0,500	0,729	4	0,667	0	0,000	Q1
8	Schulz, M.; Hasan, A.; Lamichhane, B.; Arthanayaka, T.; Dhital, M.; Bastola, S.; Nagy, L.; Borbely, S.; Jaraí-Szabo, F.	Projectile Coherence Effects in Simple Atomic Systems	Journal of Physics Conference Series	2020	1412	62007		10.1088/1742-6596/1412/6/06200	1742-6588	9	7	0,000	0,000	0,000	0,000	3	0,429	0	0,000	
9	Nagy, L.; Jaraí-Szabo, F.; Borbely, S.; Tokesi, K.	Projectile coherence effects analyzed using impact parameters determined by classical trajectory Monte Carlo calculations	Journal of Physics Conference Series	2020	1412	152032		10.1088/1742-6596/1412/15/1520	1742-6588	4	4	0,000	0,000	0,000	0,000	2	0,500	0	0,000	
10	Sarkozi, Zsuzsa; Borbely, Sandor, Jaraí-Szabo, Ferenc	Deepening Secondary Students Understanding of Physics through Escape Games	AIP Conference Proceedings	2019	2071	050001		10.1063/1.5090085	0094-243X	3	3	0,000	0,000	0,000	0,000	3	1,000	0	0,000	
11	Nagy Ladislau, Jaraí-Szabo Ferenc, Borbely Sandor	The effect of projectile wave packet width on the fully differential ionization cross-sections	Journal of Physics B: Atomic, Molecular and Optical Physics	2018	51	144005		10.1088/1361-6455/aac8f8	0953-4075	3	3	2,119	0,702	0,234	0,706	6	2,000	0	0,000	Q2
12	Nagy, Ladislau; Borbely, Sandor, Jaraí-Szabo, Ferenc	Theoretical study on projectile coherence effects in fully differential ionization cross sections	Journal of Physics Conference Series	2017	875	092009		10.1088/1742-6596/875/10/09200	1742-6588	3	3	0,000	0,000	0,000	0,000	1	0,333	1	0,000	
13	Nédá Z., Járai-Szabó F., Boda S.	Cell-size distribution and scaling in a one-dimensional Kolmogorov-Johnson-Mehl-Avrami lattice model with continuous nucleation	Physical Review E	2017	96	42145		10.1103/PhysRevE.96.042145	24700045	3	3	2,284	0,816	0,272	0,761	3	1,000	0	0,000	Q1
14	Lázár Z.I., Papp I., Varga L., Járai-Szabó F., Deritei D., Ercsey-Ravasz M.	Stochastic graph Voronoi tessellation reveals community structure	Physical Review E	2017	95	22306		10.1103/PhysRevE.95.022306	24700045	6	5,5	2,284	0,828	0,151	0,415	1	0,182	0	0,000	Q1
15	Arthanayaka T, Lamichhane B R, Hasan A, Gurung S, Remolina J, Borbély Sandor, Járai-Szabó Ferenc, Nagy Ladislau, Schulz M	Fully differential study of wave packet scattering in ionization of helium by proton impact	Journal of Physics B: Atomic, Molecular and Optical Physics	2016	49	13LT02		10.1088/0953-4075/49/13/13LT02	0953-4075	9	7	1,792	0,596	0,085	0,256	23	3,286	0	0,000	Q2

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16	Jári-Szabó F., Nagy L.	Theoretical investigations on the projectile coherence effects in fully differential ionization cross sections	European Physical Journal D	2015	69	4		10.1140/epjd/e2014-50640-2	14346060	2	2	1,208	0,429	0,215	0,604	22	11,000	1	0,429	Q3
17	Jári-Szabó F., Borbély S., Nagy L.	Projectile coherence effects studied by ab initio calculations	Journal of Physics: Conference Series	2015	635	22037		10.1088/1742-6596/635/2/022037	17426588	3	3	0,000	0,000	0,000	0,000	0	0,000	0	0,000	
18	Nagy L., Jári-Szabó F.	Projectile coherence effects investigated for the ionization of helium	Journal of Physics: Conference Series	2014	488	82011		10.1088/1742-6596/488/8/082011	17426588	2	2	0,000	0,000	0,000	0,000	0	0,000	0	0,000	
19	Deritei D., Lázár Z.I., Papp I., Jári-Szabó F., Sumi R., Varga L., Regan E.R., Ercsey-Ravasz M.	Community detection by graph Voronoi diagrams	New Journal of Physics	2014	16	63007		10.1088/1367-2630/16/6/063007	13672630	8	6,5	3,558	1,957	0,301	0,547	26	4,000	0	0,000	Q1
20	Bakos K., Dombi A., Jári-Szabó F., Neda Z.	Fragmentation of drying paint layers	AIP Conference Proceedings	2013	1564	205		10.1063/1.4832819	0094243X	4	4	0,000	0,000	0,000	0,000	1	0,250	0	0,000	
21	Papp I., Ercsey-Ravasz M., Deritei D., Sumi R., Jári-Szabó F., Florian R.V., Căbuz A.I., Lázár Z.I.	The p-index: Hirsch index of individual publications	Proceedings of ISSI 2013 - 14th International Society of Scientometrics and Infometrics Conference	2013	2	2086			9783200031357	8	6,5	0,000	0,000	0,000	0,000	0	0,000	0	0,000	
22	Sándor B., Jári-Szabó F., Tél T., Neda Z.	Chaos on the conveyor belt	Physical Review E - Statistical, Nonlinear, and Soft Matter Physics	2013	87	42920		10.1103/PhysRevE.87.042920	15393755	4	4	2,326	0,960	0,240	0,582	11	2,750	0	0,000	Q1
23	Jári-Szabó F., Neda Z.	Earthquake model describes traffic jams caused by imperfect driving styles	Physica A: Statistical Mechanics and its Applications	2012	391	5727		10.1016/j.physa.2012.06.037	3784371	2	2	1,676	0,500	0,250	0,838	5	2,500	1	0,500	Q2
24	Jári-Szabó F., Neda Z.	Winning strategies in congested traffic	International Journal of Modern Physics C	2012	23	1250063		10.1142/S0129183112500635	1291831	2	2	1,615	0,200	0,100	0,808	0	0,000	1	0,200	Q3
25	Horvát E.-Á., Jári-Szabó F., Brechet Y., Neda Z.	Spring-block approach for crack patterns in glass	Central European Journal of Physics	2012	10	926		10.2478/s11534-012-0030-2	18951082	4	4	0,905	0,260	0,065	0,226	4	1,000	0	0,000	Q3
26	Jári-Szabó F., Horvát E.-Á., Vajtai R., Neda Z.	Spring-block approach for nanobristle patterns	Chemical Physics Letters	2011	511	378		10.1016/j.cplett.2011.06.068	92614	4	4	2,337	0,700	0,175	0,584	6	1,500	1	0,700	Q3
27	Jári-Szabó F., Nagy L.	Semiclassical fully differential ionization cross sections of helium with negatively charged fast projectiles	Central European Journal of Physics	2011	9	942		10.2478/s11534-010-0120-y	18951082	2	2	0,909	0,270	0,135	0,455	0	0,000	1	0,270	Q3
28	Jári-Szabó F., Sándor B., Neda Z.	Spring-block model for a single-lane highway traffic	Central European Journal of Physics	2011	9	1002		10.2478/s11534-011-0007-6	18951082	3	3	0,909	0,270	0,090	0,303	7	2,333	1	0,270	Q3
29	Horváth Á.E., Jári-Szabó F., Kaptay G., Vajtai R., Neda Z.	Pattern formation and selection in nanotube arrays	UPB Scientific Bulletin, Series A: Applied Mathematics and Physics	2010	72	27			12237027	5	5	0,253	0,040	0,008	0,051	1	0,200	0	0,000	Q4
30	Jári-Szabó F., Nagy-Póra K., Nagy L.	Semiclassical model for calculating fully differential ionization cross sections of the H2 molecule	Journal of Physics B: Atomic, Molecular and Optical Physics	2009	42	245203		10.1088/0953-4075/42/24/245203	9534075	3	3	1,910	0,700	0,233	0,637	4	1,333	1	0,700	Q2
31	Jári-Szabó F., Nagy L.	Semiclassical fully differential cross section calculations for the ionization of small molecules	Journal of Physics: Conference Series	2009	194	102037		10.1088/1742-6596/194/10/102037	17426588	2	2	0,000	0,000	0,000	0,000	0	0,000	1	0,000	
32	Jári-Szabó F., Nagy L.	Impact parameter method calculations for fully differential ionization cross sections	Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms	2009	267	292		10.1016/j.nimb.2008.10.064	0168583X	2	2	1,156	0,400	0,200	0,578	9	4,500	1	0,400	Q2
33	Neda Z, Jari-Szabo F, Kaptalan E, Mahinke R	Spring-block models and highway traffic	Control Engineering and Applied Informatics	2009	11	3			1454-8658	4	4	0,338	0,080	0,020	0,085	9	2,250	0	0,000	Q4
34	Horváth E.-Á., Jári-Szabó F., Neda Z.	Spring-block type models for crack propagation in glass plates	Journal of Optoelectronics and Advanced Materials	2008	10	2433			14544164	3	3	0,577	0,110	0,037	0,192	1	0,333	0	0,000	Q4
35	Baran J.L., Das S., Jári-Szabó F., Póra K., Nagy L., Tanis J.A.	Suppression of primary electron interferences in the ionization of N2 by 1-5-MeV protons	Physical Review A - Atomic, Molecular, and Optical Physics	2008	78	12710		10.1103/PhysRevA.78.012710	10502947	6	5,5	2,908	1,100	0,200	0,529	28	5,091	0	0,000	Q1
36	Ferenc J.-S., Neda Z.	On the size distribution of Poisson Voronoi cells	Physica A: Statistical Mechanics and its Applications	2007	385	518		10.1016/j.physa.2007.07.063	3784371	2	2	1,430	0,500	0,250	0,715	456	228,000	1	0,500	Q2
37	Jári-Szabó F., Nagy L.	Semiclassical description of kinematically complete experiments	Journal of Physics B: Atomic, Molecular and Optical Physics	2007	40	4259		10.1088/0953-4075/40/21/012	9534075	2	2	2,012	0,800	0,400	1,006	19	9,500	1	0,800	Q2

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38	Jári-Szabó F., Nédá Z., Aştílean S., Farcáu C., Kuttesch A.	Shake-induced order in nanosphere systems	European Physical Journal E	2007	23	153		10.1140/epje/i2006-10194-9	12928941	5	5	2,025	1,275	0,255	0,405	12	2,400	1	1,275	Q2
39	Baran J.L., Das S., Jári-Szabó F., Nagy L., Tanis J.A.	Interferences in electron emission spectra from 1, 3 and 5 MeV H + + N2 collisions	Journal of Physics: Conference Series	2007	58	215		10.1088/1742-6596/58/1/045	17426588	5	5	0,000	0,000	0,000	0,000	10	2,000	0	0,000	
40	Jári-Szabó F., Kuttesch A., Aştílean S., Nédá Z., Chakrapani N., Ajayan P.M., Vajtai R.	Spring-block type models for capillarity-driven self-organized nanostructures	Journal of Optoelectronics and Advanced Materials	2006	8	1083			14544164	7	6	1,106	0,130	0,022	0,184	3	0,500	1	0,130	Q4
41	Jári-Szabó F., Aştílean S., Nédá Z.	Understanding self-assembled nanosphere patterns	Chemical Physics Letters	2005	408	241		10.1016/j.cplett.2005.04.051	92614	3	3	2,438	1,100	0,367	0,813	44	14,667	1	1,100	Q3
42	Jári-Szabó F., Nagy L., Fritzsche S.	Correlation effects for double K-shell vacancy production in lithium by fast charged projectile impact	Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms	2005	233	276		10.1016/j.nimb.2005.03.121	0168583X	3	3	1,181	0,400	0,133	0,394	0	0,000	1	0,400	Q2
43	Nagy L., Jári-Szabó F., Fritzsche S.	Ionization-excitation of lithium by fast charged projectiles	Journal of Physics B: Atomic, Molecular and Optical Physics	2005	38	141		10.1088/0953-4075/38/3/001	9534075	3	3	1,913	0,800	0,267	0,638	0	0,000	0	0,000	Q2
TOTAL:														5,645	16,909	739	308,804	16	7,674	
PUNCTAJ														I			C	P		

Fișa de îndeplinire a standardelor minimale CNATDCU

Conf. dr. Járαι-Szabó Ferenc

Date sintetizate la data: 9.10.2026				Alte date	
Indicatori CNATDCU				Total citari:	739
	Realizat	Minim CONF	Minim PROF		
A	3,60	1	2	Art. in rev. Q1	5
P	7,674	2	4	Art. in rev. Q2	10
I	5,645	2	4	Art. in rev. Q3	7
C	308,804	20	40	Art. in rev. Q4	4
H	10	5	10		
	WOS	Scopus	Google Scholar		
Hirsch	10	10	13		

Punctaj total CNATDCU: $T=A+P/2+I/2+C/20+H/5$ 27,70

minim CONF 5 minim PROF 12

Director CSUD,
Prof. dr. Anca-Mirela ANDREICA

Director SD,
Prof. dr. Vasile CHIȘ