

**ANEXA 1****FIȘA DE AUTOEVALUARE**

alcătuită în conformitate cu prevederile fișei de evaluare generală a standardelor universității, din Anexa 1 din Metodologia de Concurs pentru ocuparea posturilor didactice în Universitatea ”Alexandru Ioan Cuza” din Iași

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTAJE REALIZATE
I. ACTIVITATEA DE CERCETARE (70%)	1. Articole științifice publicate <i>in extenso</i> în reviste cotate <i>Web of Science</i> cu factor de impact	(60 puncte x factor de impact + 25)/ număr autori	1409.387
	2. Articole științifice publicate <i>in extenso</i> în reviste indexate fără factor de impact	20 puncte/ număr autori	20.67
	3. Articole științifice publicate <i>in extenso</i> în reviste indexate BDI	15 puncte/ număr autori	90
	4. Articole științifice publicate <i>in extenso</i> în volumele conferințelor	Indexate ISI: 30 puncte/număr autori	52.50
		Indexate în BDI: 15 puncte/număr autori	0
		Alte categorii: 5 puncte/ număr autori	7.50
	5. Cărți științifice publicate (doar prima ediție)	edituri academice internaționale: 100 puncte la 100 pagini/număr autori	11.00
		alte edituri internaționale: 70 puncte la 100 pagini/număr autori	7.00
		edituri academice naționale: 50 puncte la 100 pagini/număr autori	39.17
		alte edituri naționale: 20 puncte la 100 pagini/număr autori	0
	6. Cărți științifice traduse și publicate în edituri din străinătate	100 puncte la 100 pagini/număr autori	0



		contracte naționale- membru: 50 puncte pentru fiecare 500.000 lei/număr membrilor echipei de cercetare	67.13
	12. Citări și recenzii ale lucrărilor științifice	reviste de specialitate din străinătate: (10+ 20xfactor de impact) /număr autori, pentru fiecare citare	1318.492
		reviste de specialitate din țară: (5+ 10x factor de impact) /număr autori, pentru fiecare citare	0
	13. Lucrări susținute în calitate de invitat la manifestări științifice (conferințe, congrese, simpozioane, seminarii și ateliere de lucru)	Străinătate: 25 puncte pentru fiecare activitate	25
		Țară: 10 puncte pentru fiecare activitate	70
	18. Alte premii naționale ale instituțiilor culturale	20/ categorie/număr persoane	60.09
	19. Participări la manifestări științifice	<p>Internaționale: președinte comitet organizare/consiliu științific, 25 puncte pentru fiecare activitate; membru comitet organizare/consiliu științific, 15 puncte pentru fiecare activitate; moderator de panel, 15 puncte pentru fiecare activitate; raportor pe secțiuni/paneluri, 10 puncte pentru fiecare activitate</p> <p>Comitet de organizare:</p> <p>Raportor pe secțiuni</p>	<p>90</p> <p>590</p>
		naționale: președinte comitet organizare/consiliu științific, 15 puncte pentru fiecare activitate; membru comitet organizare/consiliu științific, 5 puncte pentru fiecare activitate; moderator de panel, 5 puncte pentru fiecare activitate; raportor pe secțiuni/paneluri, 2 puncte pentru fiecare activitate	0



II. ACTIVITATEA DIDACTICĂ (30%)	1. Tratatate și manuale universitare	30 puncte la 100 pagini/ număr de autori	116.5
	3. Materiale suport curs, seminar, lucrări practice și programe analitice detaliate	10 puncte pentru fiecare activitate	50
	4. Organizare de aplicații și practică de specialitate	5 puncte pentru fiecare activitate	105
Total	I . ACTIVITATEA DE CERCETARE * 0.70 + II. ACTIVITATEA DIDACTICĂ * 0.30	$3857.939 * 0.7 + 271.5 * 0.3 = 2782.007$ Total = 2782.007 Puncte	

**Tabele de calcul****I. ACTIVITATEA DE CERCETARE**

1.1 . Articole științifice publicate *in extenso* în reviste cotate *Web of Science* cu factor de impact (60 puncte x factor de impact + 25)/ număr autori)

Nr.	Articol	Număr Autori	Factor de Impact	Punctaj
1	Iordana AȘTEFĂNOAEI , Alexandru STANCU, “A computational study of the bioheat transfer in magnetic hyperthermia cancer therapy“, Journal of Applied Physics , 125(19), pp. 194701, (2019).	2	2.328	82.34
2	Iordana AȘTEFĂNOAEI , Alexandru STANCU, ”Advanced thermo-mechanical analysis in the magnetic hyperthermia”, Journal of Applied Physics , 122(16), 164701 (2017).	2	2.176	77.78
3	Iordana AȘTEFĂNOAEI , Alexandru STANCU, Horia CHIRIAC, “Numerical simulation of the temperature field in magnetic hyperthermia with Fe-Cr-Nb-B magnetic particles“, The European Physical Journal Plus , 132(2), pp. 89, (2017).	3	2.24	53.133
4	Iordana AȘTEFĂNOAEI , Alexandru STANCU, Horia CHIRIAC, “Thermal performance of Fe-Cr-Nb-B systems in magnetic hyperthermia“, Journal of Applied Physics , 121(10), pp. 104701, (2017).	3	2.176	51.853
5	Iordana AȘTEFĂNOAEI , Ioan DUMITRU, Horia CHIRIAC, Alexandru STANCU, “Thermofluid Analysis in Magnetic Hyperthermia Using Low Curie Temperature Particles“, IEEE Transactions on Magnetism , 52(7), pp.1-4, (2016).	4	1.243	24.895



6	Iordana AȘTEFĂNOAEI , Horia CHIRIAC, Alexandru STANCU, “Investigation of the temperature field in the magnetic hyperthermia using FeCrNbB magnetic particles“, The European Physical Journal Plus , 131(9), pp.322, (2016).	3	1.753	43.393
7	M. PINTO, M. PIMPINELLA, M. QUINI, M D’ARIENZO, I. AȘTEFĂNOAEI , S. LORETI, A.S. GUERRA, “A graphite calorimeter for absolute measurements of absorbed dose to water: application in medium-energy x-ray filtered beams“, Physics in medicine and biology , 61(4), pp. 1738, (2016).	7	2.742	27.074
8	Ioan DUMITRU, Iordana AȘTEFĂNOAEI , Dorin CIMPOEȘU, Alexandru STANCU, “Magnetic behavior of Joule-heated magnetic core-shell nanowires with positive magnetostrictive core material“, Applied Surface Science , 352(54-59), (2015).	4	3.15	53.5
9	Iordana AȘTEFĂNOAEI , Ioan DUMITRU, Alexandru STANCU , Horia CHIRIAC, “Use of the Fe–Cr–Nb–B systems with low curie temperature as mediators in magnetic hyperthermia“, IEEE Transactions on Magnetism , 50(11), pp.1-4, (2014).	4	1.386	27.04
10	Iordana AȘTEFĂNOAEI , Ioan DUMITRU, Alexandru STANCU , Horia CHIRIAC, “Controlling Temperature in Magnetic Hyperthermia with low Curie Temperature Particles“, Journal of Applied Physics , 115(17), pp. 17B531, (2014).	4	2.183	38.995



11	Iordana AȘTEFĂNOAEI , Ioan DUMITRU, Alexandru STANCU, Horia CHIRIAC, “A thermo-fluid analysis in magnetic hyperthermia“, Chinese Physics B , 23(4), pp.044401, (2014).	4	1.603	30.295
12	Cristina IONITĂ, Daniel RADU, Iordana AȘTEFĂNOAEI , “3D-modeling of temperature gradients induced by electrical power dissipation in a 3-body Domen-type calorimeter for absorbed dose measurements“, Materials Science and Engineering B 178(19), pp.1275-1284, (2013).	3	2.122	50.773
13	Ioan DUMITRU, Iordana AȘTEFĂNOAEI , Alexandru STANCU, “Thermal stress dependence of magnetic hysteretic processes in core-shell nanoparticles“, Materials Science and Engineering B , 178(19), pp. 1323-1328, (2013).	3	2.122	50.773
14	Iordana AȘTEFĂNOAEI , Ioan DUMITRU, Alexandru STANCU, “Size-dependent thermal stresses in the core-shell nanoparticles“, Chinese Physics B , 22(12), pp. 128102, (2013).	3	1.392	36.173
15	A. S. GUERRA, S LORETI, M PIMPINELLA, M QUINI, M D'ARIENZO, I. AȘTEFĂNOAEI , C CAPORALI, C BOLZAN, M PAGLIARI, “A standard graphite calorimeter for dosimetry in brachytherapy with high dose rate ¹⁹² Ir sources“, Metrologia , 49(5), pp. S179, (2012).	9	1.902	15.458



16	Iordana AȘTEFĂNOAEI, Ioan DUMITRU, Alexandru STANCU, “Induced Thermal Stresses in Core Shell Magnetic Particles“, IEEE Trans. Magnetics, 47(10), pp 3829 - 3832, (2011).	3	1.363	35.593
17	Marina-Aura DARIESCU, Ovidiu BUHUCIANU, Iordana AȘTEFĂNOAEI, “Chiral electrons in static fields at finite temperature“, Romanian Journal in Physics, 56(9-10), pp1043-1052, (2011).	3	0.414	16.613
18	Cristina IONITĂ, Daniel RADU, Iordana AȘTEFĂNOAEI, “Radiative Heat Loss Correction for 3-Body Graphite Calorimeters“, Acta Physica Polonica A, 118(4), (2010).	3	0.467	17.673
19	Daniel RADU, Antonio Stefano GUERRA, Cristina IONITĂ, Iordana AȘTEFĂNOAEI, “Heat loss through connecting thermistor wires in a three-body graphite calorimeter“, Metrologia, 47(3), pp.179, (2010).	4	1.688	31.57
20	Veronica GOIAN, Ioan DUMITRU, Iordana AȘTEFĂNOAEI, “The effect of temperature on magnetostatic interactions in nanowire systems“, Journal of optoelectronics and advances materials, 11(5), pp. 542-546, (2009).	3	0.433	16.993



21	Ioan DUMITRU, Iordana AȘTEFĂNOAEI, Alexandru STANCU, “The energy eigenstates of two quantum dots systems placed at the air-semiconductor interface“, Journal of optoelectronics and advances materials , 11(5), pp. 542-546, (2009).	3	0.433	16.993
22	Iordana AȘTEFĂNOAEI, Ioan DUMITRU, Andrei DIACONU, Leonard SPINU, Alexandru STANCU, “The temperature dependence of hysteretic processes in Co nanowires arrays“, Journal of Applied Physics , 103(7), pp.07D930, (2008).	5	2.201	31.412
23	Iordana AȘTEFĂNOAEI, Horia CHIRIAC, Alexandru STANCU, “Magnetic domains structure in DC Joule-heated amorphous glass-covered magnetic wires“, Journal of optoelectronics and advances materials , 10(2), pp. 260 - 263, (2008).	3	0.577	19.873
24	Ioan DUMITRU, Iordana AȘTEFĂNOAEI, Raimond GRIMBERG, Alexandru STANCU, “The energy states of cylindrical quantum dot systems“, Journal of optoelectronics and advances materials , 10(2), pp. 327 - 330, (2008).	4	0.577	14.905
25	Iordana AȘTEFĂNOAEI, H. CHIRIAC, A. STANCU, “The internal thermal stresses during the cooling process of a nanowire from alumina membrane“, Journal of optoelectronics and advances materials , 10(7), pp.1763 – 1766, (2008).	3	0.577	19.873



26	Iordana AȘTEFĂNOAEI , Ioan DUMITRU, Raimond GRIMBERG, Alexandru STANCU, “The effect of a metallic layer on energetic states of quantum dots“, Sensor Letters , 5(1), pp. 185-188, (2007).	4	1.587	30.055
27	Iordana AȘTEFĂNOAEI , Alexandru STANCU, Horia CHIRIAC, “Magnetic domains structure of dc Joule-heated conventional amorphous“, Sensor Letters , 5(1), pp.19-22, (2007)	3	1.587	40.073
28	Iordana AȘTEFĂNOAEI , Alexandru STANCU, Horia CHIRIAC, “The effect of dc Joule-heating structure of conventional amorphous wires“, Journal of Magnetism and Magnetic Materials , 316(2), pp. e276 – e279, (2007).	3	1.704	42.413
29	Iordana AȘTEFĂNOAEI , Ioan DUMITRU, Raimond GRIMBERG, Alexandru STANCU, “The energetic states of quantum dots in the presence of a metallic layer“, Journal of Magnetism and Magnetic Materials , 316(2) pp. e273-e275, (2007).	4	1.704	31.81
30	Iordana AȘTEFĂNOAEI , D. RADU, H. CHIRIAC, “The residual stresses of FeBSi – type in an ingot mould“, Journal of Optoelectronics and Advanced Materials , 8(5), pp. 1731-1736, (2006).	3	1.106	30.453



31	Iordana AȘTEFĂNOAEI, D. RADU, “Distribution of the Internal Stresses in DC Joule Heated Fe _{77.5} B ₁₅ Si _{7.5} Conventional Amorphous Microwires”, Journal of Physics D: Applied Physics , 39(18), pp. 3921–3931, (2006).	2	2.077	74.810
32	Iordana AȘTEFĂNOAEI, D. RADU, H. CHIRIAC, „Induced residual stresses in the preparation process of the glass-covered amorphous magnetic microwires”, Journal of Optoelectronics and Advanced Materials , 8(3), pp. 978-983, (2006).	3	1.106	30.453
33	Iordana AȘTEFĂNOAEI, D. RADU, H. CHIRIAC „The supplementary compression stresses in Fe-B-Si wires”, Journal of Optoelectronics and Advanced Materials , 8(5), pp. 1736-1741, (2006).	3	1.106	30.453
34	Iordana AȘTEFĂNOAEI, D. RADU, H. CHIRIAC, “Internal stress distribution in DC joule-heated amorphous glass-covered microwires”, J. Phys: Condens. Matter , 18(9), pp. 2689-2716, (2006).	3	2.038	49.093
35	Iordana AȘTEFĂNOAEI, D. RADU, H. CHIRIAC „Temperature Distributions in DC Joule-Heated Amorphous Ribbons”, Phys. Stat. Sol. A , 202(13), pp. 2419-2435, (2005).	3	1.041	29.153



36	Iordana AȘTEFĂNOAEI, D. RADU, H. CHIRIAC , “Temperature Distributions in DC Joule-Heated Amorphous Magnetic Materials“, Journal of Optoelectronics and Advanced Materials , 7(2), pp.933-950, (2005).	3	1.138	31.093
37	Iordana AȘTEFĂNOAEI, D. RADU, H. CHIRIAC , “On DC Joule-Heating Effects in the Amorphous Glass-Covered $\text{Fe}_{77.5}\text{Si}_{7.5}\text{B}_{15}$ Microwires“, Journal of Physics D: Applied Physics , 38(2), pp 235-248, (2005).	3	1.957	47.473
38	Horia CHIRIAC, Iordana AȘTEFĂNOAEI , “A Model of the DC Joule Heating in Amorphous Wires“ Phys. Stat. Sol. A , 153(1), pp. 183-189, (1996).	2	0.547	28.91
39	Iordana AȘTEFĂNOAEI, R. Gimaev, Vl. I. Zverev, Al. Stancu , “Modelling of working parameters of Gd and FeRh nanoparticles for magnetic hyperthermia“, Materials Research Express , 6(12), 5089(2019).	4	1.449	27.985
	TOTAL			1409.387

2. Articole științifice publicate *in extenso* în reviste indexate fără factor de impact (20 puncte/ număr autori).

Nr.	Articol	Număr Autori	Punctaj
1	Samir Taloub, Farida Hobar, Iordana Aștefănoaei , Ioan Dumitru, Ovidiu Florin Călțun, ”FEM Investigation of Coated Magnetic Nanoparticles for Hyperthermia“, Nanoscience and Nanotechnology , 6(1A), 55-61, (2016).	5	4.00
2	Aștefănoaei Iordana , Maftai Gheorghe, ”The behaviour of a test particle on a planar space-time structure“, Algebras Groups and Geometry (USA) , 17(3), (2000).	2	10.00
3	Aștefănoaei Iordana , Dariescu Ciprian, Dariescu Marina – Aura, ”The large scale pathology in an exact class of solutions with $\cosh(az)$ “, Algebras Groups and Geometry , 16(1), 63-72 (1999).	3	6.67
	Total		20.67

3. Articole științifice publicate *in extenso* în reviste indexate BDI

Nr.	Articol	Număr Autori	Punctaj 15puncte/nr autori
1	Iordana Aștefănoaei, Ioan Dumitru, Alexandru Stancu, "Laser Heating of Core-Shell Nanowires", Annals of West University of Timișoara , 59(1), 2-12, (2016).	3	5
2	Aștefănoaei Iordana, Maftei Gheorghe, "On global properties of a cylindrical space-time structure", Analele Universității de Vest, Timișoara , 41, 11, (2000).	2	7.5
3	Aștefănoaei Iordana, Maftei Gheorghe, "The primordial gravitational waves with cylindrical symmetries", Romanian Astronomical Journal , 8(2), 81 – 89, (1998).	2	7.5
4	Aștefănoaei Iordana, Maftei Gheorghe, "Exact solutions for Einstein-Rosen Universe", Romanian Astronomical Journal , 1(9), 3-9, (1999).	2	7.5
5	Maftei Gheorghe, Aștefănoaei Iordana, "PP gravitational waves with cylindrical symmetries", Romanian Journal of Physics , 46 (3-4), 151, (2000).	2	7.5
6	Aștefănoaei Iordana, Maftei Gheorghe, "Einstein-Rosen gravitational waves", Romanian Journal of Physics , (5-6), 120, (2000).	2	7.5
7	Aștefănoaei Iordana, "The planar gravitational waves", Analele Universității de Vest, Timișoara , 41(1), (2000).	1	15
8	Dariescu Marina – Aura, Dariescu Ciprian, Aștefănoaei Iordana, "The globally pathologic properties of an exact class of solutions with $g_{44} = -\cos^2(\alpha_{\mathcal{L}})$ ", Analele Universității din Timișoara, Seria Științele Fizice , 39, 48, (1999).	3	5



9	Aștefănoaei Iordana , Maftei Gheorghe, "On the solutions with cylindrical symmetries of the algebraic class N", Analele Universității de Vest , Timișoara, 40, 88, (1999).	2	7.5
10	Aștefănoaei Iordana , Maftei Gheorghe, "Cylindrical gravitational waves", Analele Universității de Vest , Timișoara, 39, 55, (1999).	2	7.5
11	Dariescu Ciprian, Dariescu Marina-Aura, Aștefănoaei Iordana , "The globally pathologic properties of an exact class of solutions with $g_{44} = -\sinh^2(az)$ ", Analele Universității din Iași , (ISSN 1453-052X), Fizica Solidelor, Tomul XLIII-XLIV, fasc. 2, Editura Universității "Al. I. Cuza", Iași, pag. 191-200, (1998).	3	5
12	Aștefănoaei Iordana , Maftei Gheorghe, "Exact solutions for the gravitational waves with special symmetries", Analele Universității din Iași , (ISSN 1453-052X), Fizica Solidelor, Tomul XLIII-XLIV, fasc. 2, Editura Universității "Al. I. Cuza", Iași, pag. 265-274, (1998).	2	7.5
Total			90


 4. Articole științifice publicate *in extenso* în volumele conferințelor.

Indexate ISI: 30 puncte/număr autori	Indexate BDI: 15 pct/nr.autori	Alte categorii: 5 puncte/ număr autori	Punctaj
Iordana Astefanoaei , Alexandru Stancu, Horia Chiriac, Ioan Dumitru, "Monitoring the thermal effects in the magnetic hyperthermia", (IEEE-2013) E-HEALTH AND BIOENGINEERING CONFERENCE (EHB), 2013.		Aștefănoaei Iordana , Maței Gheorghe, "The interaction of a gravitational wave with a pure radiation field", Proceedings the IV-rd and V-rd Conference of Theoretical Physics, General Relativity and Gravitation, Bistrița, 1994 and 1995.	
7.5	0	2.5	10
M. Pinto, M. Pimpinella, A.S. Guerra, I. Aștefănoaei , M. Quini, M. P. Toni, "Development of a new in – water – phantom graphite calorimeter for the measurement of absorbed dose to water in medium energy x-ray beams", 16th International Congress of Metrology, 05009, (2013) – EDP Sciences-Web of Conferences (indexat).		Aștefănoaei Iordana , Maței Gheorghe, Exact solutions for Einstein-Rosen metric, Proceedings the III-rd Conference of Theoretical Physics, General Relativity and Gravitation, Bistrița, (1993), pag 28-34.	
5	0	2.5	7.5
Iordana Astefanoaei , Alexandru Stancu, "A temperature analysis in magnetic hyperthermia", AIP CONF PROC - TIM17 Physics Conference, 1916(1), 040009, (2017).		Aștefănoaei Iordana , Maței Gheorghe, "The primordial gravitational waves in Einstein-Rosen Universe", Proceedings I and II Conference of Theoretical Physics, General Relativity and Gravitation, Bistrița, 1993.	
15	0	2.5	17.5
Iordana Astefanoaei , Alexandru Stancu, Horia Chiriac, "Magnetic hyperthermia with Fe-Cr-Nb-B magnetic particles, AIP CONF PROC - TIM15-16 Physics Conference, 1796 (1), 040006 (2017).			
10	0	0	10
Iordana Astefanoaei , Alexandru Stancu, Magnetic Nanoparticle Dosimetry in Hyperthermia Therapy, AIP CONF PROC - TIM19 Physics Conference, (2019).			
15			15
Total			60



5. Cărți științifice publicate (doar prima ediție)

Edituri academice internaționale: 100 puncte la 100 pag/număr autori	Alte edituri internaționale: 70 puncte la 100 pagini/număr autori	Edituri academice naționale: 50 puncte la 100 pagini/număr autori	Alte edituri naționale: 20 puncte la 100 pagini/număr autori	Punctaj
<p>Daniel Radu, Iordana Aștefănoaei, Cătălin Agheorghiesei, "Dissipation and Thermal Time Constants in Graphite of an Ultra-Small Bead Thermistor" (book chapter) în cartea:</p> <p>Recent Advances in Technology Research and Education Proceeding of the 16th International Conference on Global Research and Education, Inter - Academia (2017).</p> <p>Springer International Publishing AG (2018).</p> <p>ISBN: 978-3-319-67459-9 (eBook); Print ISBN: 978-3-319-67458-2;</p>	<p>Iordana Aștefănoaei, Alexandru Stancu, "Modeling of the Temperature Field in the Magnetic Hyperthermia", (book chapter) in cartea:</p> <p>Numerical Simulations in Engineering and Science, IntechOpen, (2018),</p> <p>DOI: 10.5772/68125, ISBN: 978-1-78923-451-0, Print ISBN: 978-1-78923- 450-3</p>	<p>Iordana Aștefănoaei, Ciprian Dariescu, Marina- Aura Dariescu, "Modele speciale de Univers și patologii spațio- temporale", (2007);</p> <p>Editura Universitatii Alexandru Ioan Cuza din Iași, (235 pagini), ISBN 978-973-703-205-8</p>		
11	7	39.17	0	57.17
Total				57.17



9. Contracte de cercetare științifică în instituții academice (universități, institute ale Academiei Române, institute naționale de cercetare, institute de cercetare din străinătate, alte categorii de institute academice) - **naționale- membru**

Contracte naționale- membru: 50 puncte pentru fiecare 500.000 lei/număr membrilor echipei de cercetare					Punctaj
1	2005-2008	Materiale magnetostrictive multifuncționale pentru sisteme hibride inteligente de senzori, actuatori și traductori (MAGSAT)	CEEX	100.000 RON (10 membri)	1
2	2005-2008	Efecte de suprafață în materiale magnetice nanostructurate (ESMMN)	CEEX	100.000 RON (10 membri)	1
3	2005- 2008	Sistem automat de examinare nedistructivă a componentelor feroviare de siguranță pe baza unor senzori magnetici nanostructurați (NANOEND)	CEEX	30.000 RON (10 membri)	0.3
4	2005- 2008	Simulator cuantic pentru dispozitive semiconductoare nanometrice (QUANET)	CEEX	50.000 RON (10 membri)	0.5
5	2005-2008	Dezvoltarea de noi concepte, tehnici și abilități bazate pe metode sinergice de evaluare neinvazivă a materialelor noi și avansate, a materialelor micro și nanostructurate, estimări de ciclu de viață a structurilor realizate de acestea (SINERMAT)	CEEX	90.000 RON (10 membri)	0.9
6	2005-2007	Program postdoctoral în nanostiință și nanotehnologii – (POSTDOC-NANOSCIENCE)	CNCSIS	500.000 RON (10 membri)	1
7	2004- 2006	Procese de magnetizare nanopulberi magnetice din metale de tranziție și aliaje ale acestora	CERES	14.000 RON (10 membri)	0.028
9	2004- 2006	Studiul proceselor de magnetizare în nanostructuri magnetice noi pentru medii de înregistrare de ultra-înaltă densitate	CNCSIS	60.000 RON (10 membri)	0.6
10	2005- 2007	Cercetări Fundamentale și Aplicative Integrate în domeniul Materialelor Multifuncționale Nanostructurate (NANOCONS)	CNCSIS	480.000 RON (10 membri)	4.8
11	2006- 2008	Procese fizice în fire magnetice amorge utilizate în funcționarea senzorilor magnetici (SMMA)	CEEX	150.000 RON (10 membri)	1.5



12	2006- 2008	Dezvoltarea unor modele experimentale si numerice de caracterizare a materialelor magnetice cu histerezis (MATHYS)	CEEX	400.000 RON (10 membri)	4
13	2007- 2008	Studiul relaxarii magnetice si a comutarii in sisteme nanoparticulate (RELSWITCH)	CNCISIS	200.000 RON (10 membri)	2
14	2007- 2009	Caracterizarea statica si dinamica a comportarii momentelor magnetice in medii nanostructurate (KARMA)	PNII (C)	2.000.000 RON	20
15	2008- 2011	Sisteme nanostructurate cu aplicatii in dispozitive de inalta frecventa HIFI	PNII (P)	2.000.000 RON	20
16	RU- TE-2012-3-0449, UEFISCDI, 26/26.04.2013	Studiul comportarii in microunde a sistemelor de nanofire magnetic nesaturate	Proiect PN-II	750.000 RON	7.5
17	Proiect Hyperthermia (148/2012)	Particule magnetice cu temperatură Curie coborâtă pentru aplicații în hipertermie	Parteneriat	200.000 RON	2
				Total	67.13



12. Citări și recenzii ale lucrărilor științifice

Citări (după formula = (10+20*FI)/număr de autori)										
	Autori	Titlul lucrării	Referința bibliografică	Factor de Impact	Vol (nr.)	Pag.	An	Număr autori	Punctaj	
1996	Iordana Aștefănoaei, Horia Chiriac	1) A model of the DC Joule heating in amorphous wires.	Physica Status Solidi (A)	0.547	153(1)	183-189	1996	2		132.58
citată în 6 lucrări:										
1	S. Glod, D. Poulikakos, Z. Zhao, G. Yadigaroglu	An investigation of microscale explosive vaporization of water on an ultrathin Pt wire	International Journal of Heat and Mass Transfer	1.268	45(2)	367-379	2002		17.68	
2	F. C. S. da Silva, E. F. Ferrari and M. Knobel	Precipitation and dissolution of Co granules in CuCo alloys: Reverse effects of Joule heating	Journal of Applied Physics	2.275	86(12)	7170	1999		27.75	
3	M. Butta, I. Sasada	Orthogonal Fluxgate with Annealed Wire Core	IEEE Transactions on Magnetics	1.213	49(1)	62-65	2013		17.13	
4	H.P. Phan, T.Dinh, T. Kozeki, A. Qamar, T. Namazu, S.Dimitrijevi, N.T. Nguyen, D. V. Dao	Piezoresistive effect in p-type 3C-SiC at high temperatures characterized using Joule heating	Scientific Reports	4.259	6(28499)		2016		47.59	
5	Hoang-Phuong Phan	Characterization of the Piezoresistive Effect in p-Type Single Crystalline 3C-SiC (book chapter)	Piezoresistive Effect of p-Type Single Crystalline 3C-SiC (Springer book)	0					5.00	
6	V. Kolesar, R. El Kammouni, M. Kubliha, V. Labas, M. Vazquez	Temperature Microsensor/Microactuator Based on Magnetic Microwire for MEMS Applications	IEEE Transactions on Magnetics	1.243	53(4)		2016		17.43	



Citări (după formula = $(10+20*FI)/\text{număr de autori}$)										
	Autori	Titlul lucrării	Referința bibliografică	Factor de Impact	Vol (nr.)	Pag.	An	Număr autori	Punctaj	
2005	Iordana Aștefănoaei, D. Radu, H. Chiriac	2)Temperature Distributions in DC Joule – Heated Amorphous Magnetic Materials	Journal of Optoelectronics and Advanced Materials	1.138	7(2)	933-950	2005	3	68.12	

Citată în 3 lucrări:

1	V. Kolesar, R. El Kammouni, M. Kubliha, V. Labas, M. Vazquez	Temperature Microsensor/Microactuator Based on Magnetic Microwire for MEMS Applications	IEEE Transactions on Magnetics	1.243	53(4)		2016		11.62	
2	M. Cialone, F. Celegato, M. Coisson, G. Barrera	Tailoring magnetic properties of multicomponent layered structure via current annealing in FePd thin films	Scientific Reports	4.122	7 (16691)		2017		30.81	
3	A.V. Popova, V.I. Odintsov, S.A. Menshov, E.V. Kostitsyna, S.A. Gudoshnikov	Continuous control of a resistance in Co-rich amorphous ferromagnetic microwires during DC Joule heating	Intermetallics	3.353	99	39-43	2018		25.69	



Citări (după formula = $(10+20*FI)/\text{număr de autori}$)									
	Autori	Titlul lucrării	Referința bibliografică	Factor de Impact	Vol (nr.)	Pag.	An	Număr autori	Punctaj
2005	Iordana Aștefănoaei, D. Radu, H. Chiriac	3)Temperature Distributions in DC Joule-Heated Amorphous Ribbons	Physica Status Solidi (A)	1.041	202(13)	2419-2435	2005	3	48.1
citată în 3 lucrări:									
1	F. Qin, Hua-Xin Peng, Jie Tang, Lu-Chang Qin	Ferromagnetic microwires enabled polymer composites for sensing applications	Composites Part A: Applied Science and Manufacturing	2.338	41(12)	1823-1828	2010		18.92
2	Victor De Manuel and Rafael Perez del Real	Inhomogeneous nanocrystallization of Joule-heated amorphous Vitroperm alloy	Journal of Physics D: Applied Physics	2.104	41(8)		2008		17.36
3	Victor De Manuel and Rafael Perez del Real	A model concerning the environmental factors that modify nanocrystallization of current-annealed samples	Philosophical Magazine	1.273	89(32)		2009		11.82



Citări (după formula = (10+20*FI)/număr de autori)										
	Autori	Titlul lucrării	Referința bibliografică	Factor de Impact	Vol (nr.)	Pag.	An	Număr autori	Punctaj	
2006	Iordana Aștefănoaei, D. Radu, H. Chiriac	4)Internal stress distribution in DC Joule-Heated Amorphous Glass-Covered Microwires	Journal of Physics: Condensed Matter	2.038	18(9)	2689-2716	2006	3		125.5
citată în 10 lucrări:										
1	F. Beck, R. C. Gomes, K.D. Sossmeier, F. Bohn, M.Carara	Stress dependence of the domain wall dynamics in the adiabatic regime	Journal of Magnetism and Magnetic Materials	1.78	323(3-4)	268-271	2011			15.2
2	E. V. Zamyatkina, M. I. Petrzhih	Estimation of the internal stresses in amorphous glass-covered microwires	Russian Metallurgy (Metally)	0.16	311	376	2011			4.4
3	T. R. Chueva, V. T. Zabolotnyi, P. P.Umnov, N.V.Umnov, V. V. Molokanov	Conditions of formation of “thick” plastic amorphous Fe-Co microwires in Fe75Si10B15-Co75Si10B15 system	Inorganic Materials: Applied Research	0.51	5(5)	504-508	2014			6.733
4	V. Kolesar, R. El Kammouni, M. Kubliha, V. Labas, M. Vazquez	Temperature Microsensor/ Microactuator based on Magnetic Microwire for MEMS Applications	IEEE Transactions on Magnetics	1.243	53(4)		2016			11.62
5	P. P. Umnov, A. A. Stegnukhin, A. V. Lavrenyuk, N. V.Petrakova, N. V. Umnova, V. V. Molokanov, V.T.Zabolotnyi	A mechanism of removal of a glass envelope from a “thick” amorphous Co-alloy wire prepared by the Ulitovsky-Taylor method	Inorganic Materials: Applied Research	0.51	4(3)	260-264	2013			6.733



6	A. Zhukov, M. Ipatov, JJ. Val, V. Zhukova. V.A. Chernenko	Magnetic and structural properties of glass-coated Heusler – type microwires exhibiting martensitic transformation	Scientific Reports	4.011	8(621)		2018		30.07
7	A. Zhukov, M. Ipatov, JJ del Val, S. Taskaev, M. Churyukanova and V. Zhukova	First-order martensitic transformation in Heusler-type glass-coated microwires	Appl. Phys. Lett	3.495	111	242403	2017		26.63
8	V. P. Maslov	Analytical Number Theory and the Energy of Transition of Bose Gas to Fermi gas. Critical Lines as Boundaries of Noninteracting Gas (an Analog of the Bose Gas in Classical Thermodynamics)	Russian Journal of Mathematical Physics	0.874	25(2)	220-232	2018		9.16
9	O. V. Babanazarova R. Kurmayer S. I. Sidelev E. M. Aleksandrina E. G. Sakharova	Phytoplankton structure and microcystine concentration in the highly eutrophic Nero Lake	Water Resources	0.293	38(2)	229-236	2011		5.287
10	M. G. Nematov, L. V. Panina, A. Dzhumazoda, N. A. Yudanov. A. T. Morchenko, M. A. Dzhuraev	Magnetic Anisotropy and Super-Sensitive Stress-Magnetoimpedance in Microwires with Positive Magnetostriction	Physics of the Solid State	0.95	61(8)	1409 – 1415	2019		9.667



Citări (după formula = (10+20*FI)/număr de autori)										
	Autori	Titlul lucrării	Referința bibliografică	Factor de Impact	Vol (nr.)	Pag.	An	Număr autori	Punctaj	
2006	Iordana Aștefănoaei, D. Radu, H. Chiriac	5) The supplementary compression stresses in Fe-B-Si wires	Journal of Optoelectronics and Advanced Materials	1.106	8(5)	1736-1741	2006	3	17.34	
citată în lucrarea:										
1	H. Chiriac, S. Corodeanu, A. Donac, V. Dobrea, G. Ababei, G. Stoian, M. Lostun, T.-A. Óvári, and N. Lupu	Influence of cold drawing on the magnetic properties and giant magneto-impedance response of FINEMET nanocrystalline wires	Journal of Applied Physics	2.101	117(17 A314)		2015		17.34	
2006	Iordana Aștefănoaei and Daniel Radu	6) Distribution of the internal stresses in DC Joule-heated Fe _{77.5} B ₁₅ Si _{7.5} conventional amorphous microwires	Journal of Physics D: Applied Physics	2.077	39(18)		2006	2	31.83	
citată în lucrarea:										
	Naofumi Murata, Reiko Nomura, Ayako Matsuoka	Current annealing of amorphous wire core for performance improvement of fundamental mode orthogonal fluxgate	Journal of Magnetism and Magnetic Materials	2.683	484	497-503	2019		31.83	



Citări (după formula = $(10+20*FI)/\text{număr de autori}$)

	Autori	Titlul lucrării	Referința bibliografică	Factor de Impact	Vol (nr.)	Pag.	An	Nr. autori	Punctaj	
2007	Iordana Aștefănoaei, Alexandru Stancu, H. Chiriac	7) The effect of dc Joule-heating structure of conventional amorphous wires	Journal of Magnetism and Magnetic Materials	1.704	316(2)	e276-e279	2007	3		7.69
citată în lucrarea:										
1	Reza Gholamipour, Amir Keyvanara, Farzad Shahri, Shamsoddin Mirdamadi	Effect of Joule-Heating Annealing on Giant Magnetoimpedance of Co ₆₄ Fe ₄ Ni ₂ B ₁₉ -xSi ₈ Cr ₃ Al _x (x= 0, 1 and 2) Melt-Spun Ribbons	Journal of Ultrafine Grained and Nanostructured Materials	0.654	50(2)	111-116	2017		7.69	
2007	Iordana Aștefănoaei, Ioan Dumitru, Raimond Grimberg, Alexandru Stancu	8) The effect of a metallic layer on energetic states of quantum dots	Sensor Letters	1.587	5(1)	185-188	2007	3	0	41.2
citată în lucrarea:										
1	Hyeong-Gon Kang, Fuyuki Tokumasu, Matthew Clarke, Zhenping Zhou, Jianyong Tang, Tinh Nguyen and Jeeseong Hwang	Probing dynamic fluorescence properties of single and clustered quantum dots toward quantitative biomedical imaging of cells	WIREs Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology	5.681	2(1)	48-58	2009	3	41.2	



Citări (după formula = (10+20*FI)/număr de autori)										
	Autori	Titlul lucrării	Referința bibliografică	Factor de Impact	Vol (nr.)	Pag	An	Nr. Aut ori	Punctaj	
2008	Iordana Aștefănoaei, Horia Chiriac, Alexandru Stancu	9) Magnetic domains structure in DC Joule-heated amorphous glass-covered magnetic wires	Journal of Optoelectronics and Advances Materials	0.577	10(2)	260-263	2008	3		19.35
citată în 2 lucrări:										
1	Dong-Ming Chen, Da-Wei Xing, Fa-Xiang Qin,Jing-Shun Liu, Huan Wang, Xiao-Dong Wang and Jian-Fei Sun	Correlation of magnetic domains, microstructure and GMI effect of Joule-annealed melt-extracted Co _{68.15} Fe _{4.35} Si _{12.25} B _{13.75} NbCu _{0.5} microwires for double functional sensors	Physica Status Solidi (A)	1.469	210 (11)	2515-2520	2013		13.13	
2	A. G. Mamalis, E. Hristoforou	Magnetostrictive behaviour of ribbons and wires: Analytical modelling and experimental validation	Journal of Optoelectronics and Advanced Materials	0.433	11(1)	44-55	2009		6.22	
2008	Iordana AȘTEFĂNOAEI Ioan DUMITRU, Andrei DIACONU, Leonard SPINU, Alexandru STANCU	10) The temperature dependence of hysteretic processes in Co nanowires arrays	Journal of Applied Physics	2.201	103(7)	07D930	2008	5		27.452
citată în 3 lucrări:										
1	T. T. Su, Ching-Hung Hsiao, Shen-Chuan Lo, Wen Ouyang, Tzu-Yuan Li, H. Ouyang, and Y. D. Yao	Packings of Os layers for the development of L10 order of FePt in nanoscale [Os-FePt] _n multilayer systems	Journal of Applied Physics	2.21	113	17C120	2013		10.84	
2	Chenglin Li, Qiong Wu, Ming Yue, Huanhuan Xu, Subhashini Palaka, Kevin Elkins, and J. Ping Liu	Manipulation of morphology and magnetic properties in cobalt nanowires	AIP Advances	1.653	7	56229	2017		8.612	
3	Huan-Huan Xu, Qiong Wu, Ming Yue, Cheng-Lin Li, Hong-Jian Li	Morphology control of magnetic properties in cobalt nanowires	Rare Metals	1.5	12	1-6	2018		8	



Citări (după formula = $(10+20*FI)/\text{număr de autori}$)										
	Autori	Titlul lucrării	Referința bibliografică	Factor de Impact	Vol (nr.)	Pag.	An	Nr. autor	Punctaj	
2010	Daniel Radu, Antonio St. Guerra, Cristina Ioniță, Iordana Aștefănoaei	11) Heat loss through connecting thermistor wires in a three-body graphite calorimeter	Metrologia	1.688	47(3)	179	2010	4		18.59
citată în 4 lucrări:										
1	A Mawire	A simple experiment to determine the characteristics of an NTC thermistor for low-temperature measurement applications	European Journal of Physics	1.804	33(5)		2012			11.52
2	Cristina Elena Ioniță, Daniel Radu	Two – dimensional modeling of thermal gradients in the core of a primary standard vacuum graphite calorimeter in a square – folded geometry	Rom. Journ. Phys.	0.414	58 (1-2)		2011			4.57
3	R.A. Panasenko ; I.A. Tutnov ; V.B. Malygin ; V.A. Berlyand	Specialized temperature measuring systems in high precision devices	International Conference on Control, Instrumentation, Communication and Computational Technologies (ICCICCT), 2015	0	0	0	2015			2.5
4	Yongsoo Choi, Kook Jin Jeon, Youngho Park & Sangil Hyun	Numerical simulation of heat-loss compensated calorimeter	International Journal of Computational Methods and Experimental Measurements	0	1	0	2019			2.5



Citări (după formula = (10+20*FI)/număr de autori)										
	Autori	Titlul lucrării	Referința bibliografică	Factor de Impact	Vol (nr.)	Pag.	An	Nr. autor	Punctaj	
2010	Cristina IONITĂ, Daniel RADU, Iordana AȘTEFĂNOAEI	12) Radiative Heat Loss Correction for 3-Body Graphite Calorimeters	Acta Physica Polonica A	0.467	118(4)		2010	3		8.3
citată în lucrarea:										
1	Cristina Elena Ioniță, Daniel Radu	Two – dimensional modeling of thermal gradients in the core of a primary standard vacuum graphite calorimeter in a square – folded geometry	Rom. Journ. Phys	0.745	58 (1-2)		2013			8.3
2011	Marina-Aura DĂRIESCU, Ovidiu BUHUCIANU, Iordana AȘTEFĂNOAEI	13) Chiral electrons in static fields at finite temperature	Romanian Journal in Physics	0.414	56 (9-10)	1043 - 1052	2011	3		23.81
citată în 3 lucrări:										
1	Abdelmalek Boumali	Thermal Properties of the One-Dimensional Duffin–Kemmer–Petiau Oscillator Using Hurwitz Zeta Function	Zeitschrift für Naturforschung A, A Journal of Physical Sciences	0.886	70(10)		2015			9.24
2	Marina-Aura Dariescu, Ciprian Dariescu, Ciprian Crețu, Ovidiu Buhucianu	Analytic Study of fermions in grapheme Heun functions and beyond	Rom. Journ. Phys	0.745	58 (7-8)	703-712	2013			8.3
3	Ovidiu Buhucianu	Massless fermions in external fields in terms of Heun`s functions	Acta Physica Polonica B	0.44	43(3)	397-404	2012			6.27



Citări (după formula = (10+20*FI)/număr de autori)										
	Autori	Titlul lucrării	Referința bibliografică	Factor de Impact	Vol (nr.)	Pag.	An	Nr. autor	Punctaj	
2011	Iordana AȘTEFĂNOAEI Ioan DUMITRU, Alexandru STANCU	14) Induced Thermal Stresses in Core Shell Magnetic Particles	IEEE Transactions on Magnetics	1.363	47 (10)	3829-3832	2011	3		71.34
citată în 3 lucrări:										
1	Domenico Truzzolillo, Dimitris Vlassopoulos, Abdul Munam and Mario Gauthier	Depletion gels from dense soft colloids: Rheology and thermoreversible melting	Journal of Rheology	3.276	58 (1441)		2014		25.17	
2	Domenico Truzzolillo, Dimitris Vlassopoulos, Mario Gauthier and Abdul Munam	Thermal melting in depletion gels of hairy nanoparticles	Soft Matter	4.151	38		2013		31.01	
3	Xiang-Yu Li ; Jun-Wei Zha ; Si-Jiao Wang ; Shao-Long Zhong ; Chong Zhang, Zhi-Min Dang	Effect of high-thermal conductivity epoxy resin on heat dissipation performance of saturated reactor	IEEE Transactions on Dielectrics and Electric Insulation	1.774	24(6)		2017		15.16	
2012	A S Guerra, S. Loreti, M Pimpinella, M Quini, M D'Arienzo, I. Aștefănoaei, C Caporali, C Bolzan, M Pagliari	15) A standard graphite calorimeter for dosimetry in brachytherapy with high dose rate 192Ir sources	Metrologia	1.902	49(5)	S179	2012	9	5.338	65.45
citată în 10 lucrări:										



1	Fujio Araki, Tomohiro Kouno, Takeshi Ohno, Kiyotaka Kakei, Fumiaki Yoshiyama and Shinji Kawamura	Measurement of absorbed dose-to- water for an HDR 192Ir source with ionization chambers in a sandwich setup	Medical Physics	3.012	40(9)		2013		7.804
2	Ulrike Ankerhold and Maria Pia Toni	European research projects for metrology in Brachytherapy and External Beam Cancer Therapy	Metrologia	1.902	49(5)		2012		5.338
3	T Sander	Air kerma and absorbed dose standards for reference dosimetry in brachytherapy	British Journal of Radiology	1.533	87(01 76)		2014		4.518
4	Frank Ubrich, Jorg Wulff, Rita Engenhart-Cabilic, Klemens Zink	Correction factors for source strength determination in HDR brachytherapy using the in-phantom method	Zeitschrift für Medizinische Physik	1.811	24 (2)	138- 152	2014		5.136
5	Islam El Gamal, Claudiu Cojocaru, Ernesto Mainegra- Hing and Malcolm McEwen	The Fricke dosimeter as an absorbed dose to water primary standard for Ir-192 brachytherapy	Physics in Medicine & Biology	2.811	60 (11)		2015		7.358
6	M. Pimpinella, C. Caporali, A. Stravato, A. S. Guerra, M. D Arienzo	Monte Carlo calculation of correction factors for dosimetry in radiotherapy using the correlated sampling method	Romanian Reports in Physics	1.137	66 (1)	109- 119	2014		3.638
7	Bryan R. Muir, Claudiu D. Cojocaru, Malcolm R. McEwen and Carl K. Ross,	Electron beam water calorimetry measurements to obtain beam quality conversion factors	Medical Physics	2.884	44 (10)		2017		7.52



8	Julien Bancheri, Jan Seuntjens, Arman Sarfehnia, James Renaud	Density effects of silica aerogel insulation on the performance of a graphite probe calorimeter	Medical Physics	3.177	46(4)	1874-1882	2019		8.171	
9	I El Gamal, C Cojocaru, E Mainegra-Hing, C Ross, M McEwen	Development of An Absorbed Dose to Water Primary Standard for HDR Ir-192 Brachytherapy Based On the Fricke Dosimetry System	Medical Physics	3.012	40(6)	432	2013		7.804	
10	James Renaud, Arman Sarfehnia, Julien Bancheri, Jan Seuntjens	Aerrow: A probe-format graphite calorimeter for absolute dosimetry of high-energy photon beams in the clinical environment	Medical Physics	3.177	45(1)		2018		8.171	
2013	Iordana AȘTEFĂNOAEI, Ioan DUMITRU, Alexandru STANCU	16) Size-dependent thermal stresses in the core-shell nanoparticles	Chinese Physics B	1.393	22(12)	128102	2013	3		21.86
citată în 2 lucrări:										
1	Hou Zhi-Wen, Kang Ai-Guo, Ma Wei-Qing and Zhao Xiao-Long	Dimension effects on the dielectric properties of fine BaTiO ₃ ceramics	Chinese Physics B	1.603	23(11)		2014		14.02	
2	Y. G. Liu, A. G. Kang, S. F. Zhang, Z. W. Hou, W. B. Liu,	Theoretical analysis on ferroelectricity critical dimension on BaTiO ₃ nanoparticles	Acta Physica Sinica	0.677	64(17)		2015		7.847	
2013	Iordana AȘTEFĂNOAEI, Ioan DUMITRU, Alexandru STANCU, Horia CHIRIAC	17) Monitoring the thermal effects in the magnetic hyperthermia	E-Health and Bioengineering Conference (EHB) ISI Conference Proceeding	0			2013	4		16.99
citată în lucrarea:										
1	Kihyun Kim ; Taeyoon Seo ; Kyunjong Sim ; Youngwoo Kwon	Magnetic nanoparticle-assisted microwave hyperthermia using an active integrated heat applicator	IEEE Transactions on Microwave Theory and Techniques	2.897	64(7)		2016		16.99	



Citări (după formula = (10+20*FI)/număr de autori)										
	Autori	Titlul lucrării	Referința bibliografică	Factor de Impact	Vol (nr.)	Pag.	An	Nr. autori	Punctaj	
2014	Iordana AȘTEFĂNOAEI Ioan DUMITRU, Alexandru STANCU, Horia CHIRIAC	18) A thermo-fluid analysis in magnetic hyperthermia	Chinese Physics B	1.603	23(4)	44401	2014	4		54.49
citată în 5 lucrări:										
1	Y Tang, T Jin, RCC Flesch	Impact of different infusion rates on mass diffusion and treatment temperature field during magnetic hyperthermia	International Journal of Heat and Mass Transfer	4.346	124	639-645	2018		24.23	
2	A. F. Abu-Bakr, A. Y. Zubarev	Effect of Interparticle Interaction on Magnetic Hyperthermia—A Theoretical Study	Journal of Nanofluids	0.89	4(2)	147-150	2015		6.95	
3	A. Yu. Zubarev, A. F. Abu-Bakr, L. Yu. Iskakova, S. V. Bulycheva	Magnetic Hyperthermia in a system of Magneticaly interacting particles	Magnetohydro-dynamics	0.588	51(4)	647-654	2015		5.44	
4	Yundong Tang, Rodolfo C C Flesch and Tao Jin	Numerical investigation of temperature field in magnetic hyperthermia considering mass transfer and diffusion in interstitial tissue	Journal of Physics D: Applied Physics	2.373	51(3)		2017		14.37	
5	Yuan Liang Tang, Lizhong Mu and Ying He	Numerical simulation of fluid and heat transfer in a biological tissue using an immersed boundary method mimicking the exact structure of the microvascular network	Tech Science Press Fluid Dynamic&Materials Processing	0.2			2019		3.5	
2014	Iordana AȘTEFĂNOAEI, Ioan DUMITRU, Alexandru STANCU , Horia CHIRIAC	19) Controlling Temperature in Magnetic Hyperthermia with low Curie Temperature Particles	Journal of Applied Physics	2.183	115 (17)	17B531	2014	4		135.29
citată în 10 lucrări:										
1	George Zorbas , Theodoros Samaras	A study of the sink effect by blood vessels in radiofrequency ablation	Computers in Biology and Medicine	1.521	57(1)	182-186	2015		10.11	



2	Alan S. Edelstein	Magnetic Sensor	Wiley Encyclopedia of Electrical and Electronics Engineering	0			2016		2.5
3	ND. Thorat, RA. Bohara, HM. Yaday, SAM. Tofail	Multi-modal MR imaging and magnetic hyperthermia study of Gd doped Fe ₃ O ₄ nanoparticles for integrative cancer therapy	RSC Advances	3.108	6	94967-94975	2016		18.04
4	P.Coppola, F.G.da Silva, G.Gomide, F.L.O.Paula, A. F.C.Campos, R. Perzynski, C.Kern, J.Depeyrot, R. Aquino	Hydrothermal synthesis of mixed zinc-cobalt ferrite nanoparticles: structural and magnetic properties	Journal of Nanoparticle Research	2.02	18 (138)		2016		12.6
5	Wei Zhang, Xudong Zuo, Ying Niu, Chengwei Wu, Shuping Wang, Shui Guan and S. Ravi P. Silva	Novel nanoparticles with Cr ³⁺ substituted ferrite for self-regulating temperature hyperthermia	Nanoscale	7.233	37	139	2017		38.67
6	Yundong Tang, Rodolfo C. C. Flesch, and Tao Jin	Numerical analysis of temperature field improvement with nanoparticles designed to achieve critical power dissipation in magnetic hyperthermia	Journal of Applied Physics	2.176	122	34702	2017		13.38
7	A Ahmad, H Bae, I Rhee, S Hong	Magnetic heating of triethylene glycol (TREG)-coated zinc-doped nickel ferrite nanoparticles	Journal of Magnetism and Magnetic Materials	2.683	447	42-47	2018		15.92
8	Da-Ae Lee, Hongsub Bae Ilsu Rhee	Cetyl Trimethyl Ammonium Bromide-coated Nickel Ferrite Nanoparticles for Magnetic Hyperthermia and T2 Contrast Agents in Magnetic Resonance Imaging	Journal of the Korean Physical Society	0.63	73(9)	1334-1339	2018		5.65
9	Yundong Tang, Rodolfo C. C. Flesch, and Tao Jin	Numerical method to evaluate the survival rate of malignant cells considering the distribution of treatment temperature field for magnetic hyperthermia	Journal of Magnetism and Magnetic Materials	2.683	490	165458	2019		15.92
10	Jiming Ma, Song Zhang, Rijian Su, Zhongzhou Du, Guoliang Zhang, Haoyang Chen and Shijiao Shan	Analytical calculation method of free static magnetic field point in magnetic signal measurement	Journal of Physics: Conference Series (ISI Proceeding)	0	1176	52076	2019		2.5



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	Autori	Titlul lucrării	Referința bibliografică	Factor de Impact	Vol (nr.)	Pag.	An	Nr. autori	Punctaj	
2014	Iordana AȘTEFĂNOAEI Ioan DUMITRU, Alexandru STANCU , Horia CHIRIAC	20) Use of the Fe–Cr–Nb–B systems with low curie temperature as mediators in magnetic hyperthermia	IEEE Transactions on Magnetics	1.386	50(11)	4	2014	4		32.75
citată în 5 lucrări:										
1	Hans-Dieter Lang, Gengyu Xu, Costas D. Sarris,	A wireless power transfer route to magnetically mediated hyperthermia	Antennas and Propagation (EUCAP), 2017 11th European Conference on	0			2017		2.5	
2	CC. Cheng, JF Kiang	Efficacy of Magnetic and Capacitive Hyperthermia on Hepatocellular Carcinoma	Progress In Electromagnetics Research M	0.34	64	181-192	2018		4.2	
3	Y. Tang, RCC Flesch, T. Jin	Injection Strategy for the Optimization of Therapeutic Temperature Profile Considering Irregular Tumors in Magnetic Hyperthermia	IEEE Transactions on Magnetics	1.651	99		2018		10.76	
4	Yundong Tang ; Tao Jin ; Rodolfo C. C. Flesch	Numerical temperature analysis of magnetic hyperthermia considering nanoparticle clustering and blood vessels	IEEE Transactions on Magnetics	1.467	53(10)		2017		9.84	
5	Chien-Chang Chen, Jean-Fu Kiang	Electroquasistatic model of capacitive hyperthermia affected by heat convection	Progress In Electromagnetics Research C	0.59	89	61-74	2019		5.45	



Citări (după formula = (10+20*FI)/număr de autori)										
	Autori	Titlul lucrării	Referința bibliografică	Factor de Impact	Vol (nr.)	Pag.	An	Nr. autori	Punctaj	
2016	M. PINTO, M. IMPINELLA, M. QUINI, M D”ARIENZO, I.AȘTEFĂNOAEI, S. LORETI, A.S. GUERRA	21) A graphite calorimeter for absolute measurements of absorbed dose to water: application in medium-energy x-ray filtered beams,	Physics in Medicine and Biology	2.742	61(4)	1738	2016	7		46.56
citată în 5 lucrări:										
1	James Renaud, Arman Sarfehnia, Julien Bancheri, Jan Seuntjens	Aerrow: A probe-format graphite calorimeter for absolute dosimetry of high-energy photon beams in the clinical environment	Medical Physics	3.177	45(1)		2018			10.51
2	James Renaud, Hugo Palmans, Arman Sarfehnia, Jan Seuntjens	Absorbed dose calorimetry	Phys Med Biol doi: 10.1088/1361-6560/ab4f29.	3.03			Oct 2019			10.08
3	Ludwig Büermann, Antonio Stefano Guerra, Maria Pimpinella, Massimo Pinto, Benjamin Rapp	First international comparison of primary absorbed dose to water standards in the medium - energy X-ray range	Metrologia	3.411	53(1A)	6007	2016			11.17
4	Michael J Lawless, Lianna Dimaso, Benjamin Palmer, John Micka, Wesley S. Culberson, Larry A DeWerd	Monte Carlo and 60 Co based kilovoltage x-ray dosimetry methods	Med Physics DOI: 10.1002/mp.13213	3.177	45(12)		2018			10.51
5	Robin Hil, Brendan Healy, Duncan Butler David Odgers, Simran Gill, Jessica Lye, Tina Gorjiara, Dane Pope, Brendan Hill	Australasian recommendations for quality assurance in kilovoltage radiation therapy from the Kilovoltage Dosimetry Working Group of the Australasian College of Physical Scientists and Engineers in Medicine	Australasian physical & engineering sciences in medicine	1			2018			4.286



Citări (după formula = (10+20*FI)/număr de autori)										
	Autori	Titlul lucrării	Referința bibliografică	Factor de Impact	Vol (nr.)	Pag.	An	Nr. autori	Punctaj	
2016	Iordana Aștefănoaei, Horia Chiriac, Alexandru Stancu	22) Investigation of the temperature field in the magnetic hyperthermia using FeCrNbB magnetic particles	The European Physical Journal Plus	1.753	131(9)	322	2016	3		39.06
citată în 2 lucrări:										
1	Yundong Tang, Rodolfo C. C. Flesch, and Tao Jin	Numerical method to evaluate the survival rate of malignant cells considering the distribution of treatment temperature field for magnetic hyperthermia	Journal of Magnetism and Magnetic Materials	2.683			2019			21.22
2	Yundong Tang, Rodolfo C. C. Flesch, and Tao Jin	Numerical analysis of temperature field improvement with nanoparticles designed to achieve critical power dissipation in magnetic hyperthermia	Journal of Applied Physics	2.176	122 (034702)		2017			17.84
2016	Iordana AȘTEFĂNOAEI, Ioan DUMITRU, Horia CHIRIAC, Alexandru STANCU	23) Thermofluid Analysis in Magnetic Hyperthermia Using Low Curie Temperature Particles	IEEE Transactions on Magnetics	1.243	52(7)	4	2016	4		128.75
citată în 8 lucrări:										
1	Hans-Dieter Lang, Gengyu Xu, Costas D. Sarris	A wireless power transfer route to magnetically mediated hyperthermia	Antennas and Propagation (EUCAP), 2017 11th European Conference on	0						2.5
2	Y Tang, RCC Flesch, T Jin	A method for increasing the homogeneity of the temperature distribution during magnetic fluid hyperthermia with a Fe-Cr-Nb-B alloy in the presence of blood vessels	Journal of Magnetism and Magnetic Materials,	3.046			2017			17.73



3	Y Tang, T Jin, RCC Flesch	Numerical temperature analysis of magnetic hyperthermia considering nanoparticle clustering and blood vessels	IEEE Transactions on Magnetics	1.467			2017		9.835
4	Y Tang, RCC Flesch, C Zhang, T Jin	Numerical analysis of the effect of non-uniformity of the magnetic field produced by a solenoid on temperature distribution during magnetic hyperthermia	Journal of Magnetism and Magnetic Materials	2.683			2018		15.92
5	Y Tang, RCC Flesch, T Jin	Numerical investigation of temperature field in magnetic hyperthermia considering mass transfer and diffusion in interstitial tissue	Journal of Physics D: Applied Physics	2.373			2017		14.37
6	Y Tang, RCC Flesch, T Jin	Injection Strategy for the Optimization of Therapeutic Temperature Profile Considering Irregular Tumors in Magnetic HyperthermiaIEEE Transactions on Magnetics,	IEEE Transactions on Magnetics	1.651			2018		10.76
7	HD Lang, CD Sarris	Optimal design of implants for magnetically mediated hyperthermia: A wireless power transfer approach	Journal of Applied Physics, 2017	2.176			2017		13.38
8	Wenta Wang, Xiaoqia, Fan, Jinjing Qiu, Malik, Muhammad Umair, Benzhi, Ju, Shufen Zhang, Bingtao Tang	Extracorporeal magnetic thermotherapy materials for self-controlled temperature through phase transition	Chemical Engineering Journal	8.355	358	1279-1286	2019		44.28
2016	Iordana AȘTEFĂNOAEL, Alexandru STANCU, Horia CHIRIAC	24) Magnetic hyperthermia with Fe-Cr-Nb-B magnetic particles	AIP Conference Proceedings - ISI Conference Proceedings	0	1796(1)	40006	2017	3	33.5
citată în lucrarea:									
1	Ziba Hedayatnasa, Wan Mohd Ashri Wan Daud	Review on magnetic nanoparticles for magnetic nanofluid hyperthermia application	Materials & Design	4.525	123(5)	174-196	2017		33.5



Citări (după formula = (10+20*FI)/număr de autori)										
	Autori	Titlul lucrării	Referința bibliografică	Factor de Impact	Vol (nr.)	Pag.	An	Nr. autori	Punctaj	
2017	Iordana AȘTEFĂNOAEI Alexandru STANCU, Horia CHIRIAC	25) Thermal performance of Fe-Cr-Nb-B systems in magnetic hyperthermia	Journal of Applied Physics	2.176	121(10)	104701	2017	3		53.53
citată în 2 lucrări:										
1	Y Tang, RCC Flesch, T Jin	Numerical method to evaluate the survival rate of malignant cells considering the distribution of treatment temperature field for magnetic hyperthermia	Journal of Magnetism and Magnetic Materials	2.683			2019		21.22	
2	Y Tang, T Jin, RCC Flesch	Impact of different infusion rates on mass diffusion and treatment temperature field during magnetic hyperthermia	International Journal of heat and mass transfer	4.346	124	639-645	2018		32.31	
2011	Anamaria Doaga, Cristin Constantin, Alina Cojocaru, Iordana Astefanoaei, Ioan Dumitru, Ovidiu Caltun	26)Phenomenological study of thermal field generated by nanoparticles arrays in hyperthermia as treatment method	Journal of Advanced Research in Physics	0	2(1)	11110	2011	6		15.65
citată în 2 lucrări:										
1	D Gogola, O Štrbák, A Krafčík, M Škrátek	Magnetic resonance imaging of the static magnetic field distortion caused by magnetic nanoparticles: Simulation and experimental verification	Journal of Magnetism and Magnetic Materials	2.357	380	261-265	2015		9.52	
2	Pandesh S., Haghjooy J Sh.	Targeted Photothermal Therapy of Melanoma in C57BL/6 Mice using Fe3O4@ Au Core-shell Nanoparticles and Near-infrared Laser	Journal of Biomedical Physics Engineering	1.34			2017		6.13	
2017	Iordana Aștefănoaei, Alexandru Stancu	27)Advanced thermo-mechanical analysis in the magnetic hyperthermia	Journal of Applied Physics	2.176	122(16)	164701	2017	2		33.41
	Citată in lucrarea									
	Xiaoya Li, Qing-Hua Qin, Xiaogeng Tian	Thermo-viscoelastic analysis of biological tissue during hyperthermia treatment	Applied Mathematical Modeling https://doi.org/10.1016/j.apm.2019.11.007	2.841					33.41	
									Total	1318.492



13. Lucrări susținute în calitate de invitat la manifestări științifice (conferințe, congrese, simpozioane, seminarii și ateliere de lucru) = **total 95 puncte**

- străinătate (25 puncte pt fiecare activitate)

1	Iordana Aștefănoaei , Alexandru Stancu, “A temperature analysis in the magnetic hyperthermia“, The 12 International Conference on Physics of Advanced Materials (ICPAM-12), 22-28 septembrie 2018, Heraklion, Greece
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-naționale (10 puncte pentru fiecare activitate)

1	Iordana Aștefănoaei , Alexandru Stancu, “A Computational Study of the bioheat transfer in the Magnetic Hyperthermia – Cancer Therapy”, COST ACTION CA 17115 “European network for advancing Electromagnetic hyperthermic medical technologies”, 8 - 9 iulie 2019 Sibiu, România
2	Iordana Aștefănoaei , Alexandru Stancu, “Magnetic Nanoparticle Dosimetry in Hyperthermia – Cancer Therapy. Thermo – Fluid Analysis“, IEEE Magnetics Society Chapter of the Romania Section Conference - IEEE ROMSC 2019 , Iași, România
3	Iordana Aștefănoaei , Alexandru Stancu, “Hipertermia Magnetică. Câmpul termic al unor sisteme de nanoparticule. Aplicații“, A XLV-a Conferință Națională FTEM 2018 – Fizica și Tehnologiile Educaționale Moderne, mai 2018, Iași, România.
4	Iordana Aștefănoaei , Alexandru Stancu, “Magnetic Hyperthermia. The temperature field developed by the magnetic nanoparticle systems. Applications.“, IEEE Magnetics Society Chapter of the Romania Section Conference - IEEE ROMSC 2018 , (iunie 2018), Iași (România).
5	Iordana Aștefănoaei , Ioan Dumitru, Alexandru Stancu, Horia Chiriac, "The magnetic Hyperthermia with low Curie temperature magnetic particles", IEEE ROMSC 2017 , (iunie 2017), Iași (România).
6	Iordana Aștefănoaei , Alexandru Stancu, Horia Chiriac, "The temperature field in the Magnetic Hyperthermia with Fe – Cr – Nb – B magnetic particles", IEEE ROMSC 2016 , 14 iunie. 2016, Iași (România).
7	Iordana Aștefănoaei , Ioan Dumitru, Alexandru Stancu, Horia Chiriac, "The magnetic Hyperthermia with low Curie temperature magnetic particles", IEEE ROMSC 2014 , 13 iunie 2014, Iași (România).

18. Alte premii naționale (20/categorie/număr persoane)

Lucrare	Nr. autori	Punctaj
1. (PN-III-P1-1.1-PRECISI-2019-36838) ”A computational study of the bioheat transfer in magnetic hyperthermia cancer therapy”, Iordana Aștefănoaei , Alexandru Stancu, publicat in Journal Applied Physics.	2	10
2. (PN-III-P1-1.1-PRECISI-2018-24036) ” Advanced thermo-mechanical analysis in the magnetic hyperthermia”, Iordana Aștefănoaei , Alexandru Stancu, publicat in Journal Applied Physics	2	10
3. (PN-III-P1-1.1-PRECISI-2017-18161) ”Numerical simulation of the temperature field in magnetic hyperthermia with Fe-Cr-Nb-B magnetic particles”, Iordana Aștefănoaei , Horia Chiriac, Alexandru Stancu, publicat în European Physical Journal Plus.	3	6.67



4. (PN-III-P1-1.1-PRECISI-2017-18166) "Thermal performance of Fe-Cr-Nb-B systems in magnetic hyperthermia", Iordana Aștefănoaei , Horia Chiriac, Alexandru Stancu, publicat în Journal of Applied Physics.	3	6.67
5. (PN-III-P1-1.1-PRECISI-2016-12877), "Investigation of the temperature field in the magnetic hyperthermia using FeCrNbB magnetic particles", Iordana Aștefănoaei , Horia Chiriac, Alexandru Stancu, publicat în European Physical Journal Plus	3	6.67
6. (PN-III-P1-1.1-PRECISI-2016-11494), "A graphite calorimeter for absolute measurements of absorbed dose to water: Application in medium-energy x-ray filtered beams", M. Pinto, M. Pimpinella, M. Quini, M D'Arienzo, I. Aștefănoaei , S. Loreti, A.S. Guerra, publicat in Physics in Medicine and Biology	7	2.86
7. (PN-II-RU-PRECISI- 2015-13717) "A thermo-fluid analysis in magnetic hyperthermia", Iordana Aștefănoaei , Ioan Dumitru, Horia Chiriac, Alexandru Stancu, publicat în Chinesse Physics B.	4	5.00
8. (PN-II-RU-PRECISI-2015-13686), "Magnetic behavior of Joule-heated magnetic core-shell nanowires with positive magnetostrictive core material", Ioan Dumitru, Iordana Aștefănoaei , Dorin Cimpoesu, Alexandru Stancu, publicat în Applied Surface Science	4	5.00
9. (PN-II-RU-PRECISI- 2014-8012), "Controlling temperature in magnetic hyperthermia with low Curie temperature particles", Iordana Aștefănoaei , Ioan Dumitru, Horia Chiriac, Alexandru Stancu, publicat in Journal Applied Physics	4	5.00
10. PN-II-RU-PRECISI-2014-8 – 4012, "A standard graphite calorimeter for dosimetry in brachytherapy with high dose rate 192Ir sources", A. S. Guerra, S. Loreti, M Pimpinella, M Quini, M D'Arienzo, I. Aștefănoaei , C Caporali, C Bolzan, M Pagliari, publicat în Metrologia.	9	2.22
		60.09

19. Participări la manifestări științifice

Comitet de organizare = (15 puncte pentru fiecare activitate) = **90 puncte**

1	IEEE Magnetics Society Chapter of the Romania Section Conference - IEEE ROMSC 2019 , Iași, România
2	IEEE Magnetics Society Chapter of the Romania Section Conference - IEEE ROMSC 2013 , Iași, România
3	10 th International Symposium on Hysteresis Modeling and Micromagnetics, (HMM 2015) (18-20 mai 2015, Iași România)
4	IEEE Magnetics Society Chapter of the Romania Section Conference - IEEE ROMSC 2010 , Iași, România
5	IEEE Magnetics Society Chapter of the Romania Section Conference - IEEE ROMSC 2006 , Iași, România
6	Conferinta Națională de Fizică Teoretică (CNF - Iași 2010 , 23-25 sept 2010)



- Raportor pe secțiuni 10 puncte pentru fiecare activitate = 590 puncte

1	Iordana Aștefănoaei , Alexandru Stancu, "Computational Study of the bioheat transfer in the Magnetic Hyperthermia – Cancer Therapy", COST ACTION CA 17115 "European network for advancing Electromagnetic hyperthermic medical technologies" , 8 - 9 iulie 2019 Sibiu, România.
2	Iordana Astefanoaei , Alexandru Stancu, "Magnetic Nanoparticle Dosimetry in Hyperthermia – Cancer Therapy. Thermo–Fluid Analysis", IEEE Magnetics Society Chapter of the Romania Section Conference - IEEE ROMSC 2019 , Iași, România.
3	Iordana Astefanoaei , Alexandru Stancu, "A temperature analysis in the magnetic hyperthermia", The 12 International Conference on Physics of Advanced Materials, ICPAM-12 , 22-28 septembrie 2018 , Heraklion, Greece.
4	Iordana Astefanoaei , Alexandru Stancu, "Hipertermia Magnetică. Câmpul termic al unor sisteme de nanoparticule. Aplicații", A XLV-a Conferință Națională FTEM 2018 – Fizica și Tehnologiile Educaționale Moderne , mai 2018, Iași, România.
5	Iordana Astefanoaei , Alexandru Stancu, "Magnetic Hyperthermia. The temperature field developed by the magnetic nanoparticle systems. Applications.", IEEE Magnetics Society Chapter of the Romania Section Conference - IEEE ROMSC 2018 , (iunie 2018), Iași (România).
6	Iordana Aștefănoaei , Ioan Dumitru, Alexandru Stancu, Horia Chiriac, "The magnetic Hyperthermia with low Curie temperature magnetic particles", IEEE ROMSC 2017 , (iunie 2017), Iași (România).
7	Iordana Aștefănoaei , Alexandru Stancu, Horia Chiriac, "The temperature field in the Magnetic Hyperthermia with Fe – Cr – Nb – B magnetic particles", IEEE ROMSC 2016 , 14 iunie. 2016, Iași (România).
8	Iordana Aștefănoaei , Ioan Dumitru, Alexandru Stancu, Horia Chiriac, "The magnetic Hyperthermia with low Curie temperature magnetic particles", IEEE ROMSC 2014 , 13 iunie 2014, Iași (România).
9	Iordana Aștefănoaei , Ioan Dumitru, Alexandru Stancu, Horia Chiriac, "Thermal – fluid analysis in Magnetic Hyperthermia", IEEE ROMSC 2013 , 2-3 sept. 2013, Iași (România).
10	Iordana Astefanoaei , Alexandru Stancu, "Magnetic Nanoparticle Dosimetry in Hyperthermia Therapy", TIM 19 Physics Conference , 29-31 mai 2019 , Timișoara (România).
11	Iordana Astefanoaei , Alexandru Stancu, "Temperature field in the Magnetic Hyperthermia", 2nd IEEE Conference on Advances in Magnetics, (IEEE AIM 2018), 4-7 februarie 2018, La Thuile, Italy.



12	Iordana Astefanoaei , Alexandru Stancu, “Advanced control of the temperature field in Magnetic Hyperthermia“, 62nd Annual Conference on Magnetism and Magnetic Materials (MMM 2017) November 6-9 Pittsburgh, PA, USA (2017).
13	Iordana Astefanoaei and Alexandru Stancu, “A temperature analysis in Magnetic Hyperthermia”, TIM 17 Physics Conference , 26-29 mai 2017 , Timișoara, România.
14	Iordana Aștefănoaei , Alexandru Stancu, Horia Chiriac, “Magnetic Hyperthermia with Fe - Cr- Nb - B magnetic particles“, TIM15-16 Physics Conference , 26-28 mai 2016 , Timișoara.
15	Iordana Aștefănoaei , Horia Chiriac, Alexandru Stancu, Tissue temperature analysis in magnetic hyperthermia with Fe – Cr – Nb - B magnetic particles, 61 st Annual Conference on Magnetism and Magnetic Materials (2016 MMM Conference), 31 oct. - 4 nov 2016, New Orleans (USA).
16	Iordana Aștefănoaei , Ioan Dumitru, Alexandru Stancu, Horia Chiriac, "The temperature analysis in the magnetic hyperthermia with low Curie temperature particles", 7th International Workshop on Amorphous and Nanostructured Magnetic Materials(ANMM 2015), 21-24 septembrie, Iași Romania.
17	Iordana Aștefănoaei , Ioan Dumitru, Alexandru Stancu, Horia Chiriac, "Study of the optimal thermal dose in the magnetic hyperthermia with low Curie temperature particles" (Th.P - P27), 20th International Conference on Magnetism (ICM 2015), 5-10 July 2015, Barcelona (Spania).
18	Iordana Astefanoaei , Ioan Dumitru, Alexandru Stancu, Laser heating and thermal stresses in the core-shell nanowires, 20th International Conference on Magnetism (ICM 2015), Barcelona, 2015, July 05, 2015.
19	Samir Taloub, Farida Hobar, Iordana Astefanoaei , Ioan Dumitru, Ovidiu Florin Caltun, Effect of Magnetic Nanoparticles distribution in tumoral cell for hyperthermia, The 8th International Conference On Advanced Materials, ROCAM 2015 , Bucuresti, July 07, 2015
20	Samir Taloub, Farida Hobar, Iordana Astefanoaei , Ioan Dumitru, Ovidiu Florin Caltun, Influence of shape and area hysteresis loops on heating process of magnetic nanoparticles for hyperthermia applications, Conference International Symposium on Hysteresis Modeling and Micromagnetics (HMM 2015), Iasi, May 18, 2015.
21	Iordana Aștefănoaei , Ioan Dumitru, Alexandru Stancu, Horia Chiriac, "Numerical study of dosimetry in magnetic hyperthermia with low Curie temperature particles"(EU-05), 59th Annual Conference on Magnetism and Magnetic Materials (MMM 2014), 3 - 7 Noiembrie 2014, Honolulu, (Hawaii).



22	Iordana Aștefănoaei , Ioan Dumitru, Alexandru Stancu, Horia Chiriac, "On the use of Low Curie Temperature Particles in Magnetic Hyperthermia"(HS-01), IEEE International Magnetism Conference (INTERMAG), 4 - 8 May 2014 , Dresden (Germany).
23	Iordana Aștefănoaei , Ioan Dumitru, Horia Chiriac, Alexandru Stancu, The Magnetic Hyperthermia with low Curie temperature magnetic particles (oral), IEEE ROMSC XI , Iasi, Romania, June 13, 2014 .
24	Ioan DUMITRU, Iordana Astefanoaei , Dorin Cimpoesu, Alexandru Stancu, Effective Anisotropy In Heated Magnetic Core-Shell Nanowires, International Conference on Physics of Advanced Materials (ICPAM-10), Iasi, Romania, September 22-28, 2014 .
25	Iordana Aștefănoaei , Ioan Dumitru, Alexandru Stancu, Horia Chiriac, "Controlling Temperature in Magnetic Hyperthermia with low Curie Temperature Particles" (EW-02), 58th Annual Conference on Magnetism and Magnetic Materials (MMM), 4 - 8 Noiembrie 2013 , Denver, Colorado (USA).
26	Iordana Aștefănoaei , Ioan Dumitru, Alexandru Stancu, Horia Chiriac, "Monitoring the thermal effects in the Magnetic Hyperthermia"(ID: 66), IEEE e-Health and Bioengineering , 21--23 noiembrie 2013 , Iași (România).
27	D'Arienzo M, Guerra A S, Loreti S, Pimpinella M, Quini M, Caporali C, Pagliari M, Astefanoaei I , Bolzan C, "Un campione primario in grafite per la misura della dose assorbita nella brachiterapia ad alto rateo di dose con sorgenti di ¹⁹² Ir", XXXVI Convegno Nazionale di Radioprotezione AIRP (Associazione Italiana di Radioprotezione) –18-20 settembre, 2013 Palermo.
28	Pinto M, Guerra A S, Loreti S, Pimpinella M, Quini M, Toni M P, Astefanoaei I , "Development of a new absorbed dose to water primary standard for kilovoltage radiotherapy beams", Poster Presentation, 8thAIFM Congress, 16-19 Nov 2013, Turin, Italy.
29	Pinto M, Pimpinella M, Guerra A S, Astefanoaei I, Loreti S, Quini M, Toni M P, "Development of a new in-water graphite calorimeter for the measurement of absorbed dose to water in medium x-ray beams", 16th International Congress of Metrology, 2013, http://dx.doi.org/10.1051/metrology/201305009 .
30	Iordana Astefanoaei , Ioan Dumitru, Alexandru Stancu, Laser-induced thermal stresses in the magnetic nanowires, COST MPO904 & IEEE ROMSC 2012 , Iasi, RO, poster.
31	Astefanoaei Iordana , Dumitru Ioan, Stancu Alexandru - Induced Thermal Stresses in Core Shell Magnetic Particles, INTERMAG 2011 , Taipei.



32	Astefanoaei Iordana , Dumitru Ioan, Stancu Alexandru - The influence of thermal stresses on the magnetic properties of embedded particles into an alumina matrix, ROMSC 2010 .
33	Ioan Dumitru, Iordana Astefanoaei , Alexandru Stancu - The energy eigenstates of two quantum dots systems placed at the air-semiconductor interface, IEEE ROMSC 2008 .
34	Iordana Astefanoaei , Ioan Dumitru, Andrei Diaconu, Alexandru Stancu - The thermal stresses in Co nanowires arrays, IEEE ROMSC Conference 2008 .
35	Iordana Astefanoaei , Ioan Dumitru, Andrei Diaconu, Leonard Spinu, Alexandru Stancu, The temperature dependence of hysteretic processes in Co nanowires arrays, 52nd Annual Conference on Magnetism and Magnetic Materials – MMM 2007 .
36	Veronica Goian, Iordana Aștefănoaei , Ioan Dumitru, Leonard Spinu, Alexandru Stancu, Temperature dependence of the Magnetostatic Interactions in Ferromagnetic nanowires systems, (CT-11), 10th Joint Magnetism and Magnetic Materials (MMM)/ Intermag Conference , January 7-11, 2007, Baltimore, Maryland (SUA) – Intermag 2007 .
37	Iordana Astefanoaei , Ioan Dumitru, Raimond Grimberg and Alexandru Stancu, The study of energy states of two cylindrical quantum dots placed at the interface semiconductor-air, ICFPM 2007 .
38	Ioan Dumitru, Iordana Astefanoaei , Raimond Grimberg and Alexandru Stancu, Eigenstates of cylindrical quantum dots structures, 7 th International Balkan Workshop on Applied Physics (IBWAP 2007 , 5-7 th July, 2007), Constanta.
39	Iordana Astefanoaei , Horia Chiriac, Alexandru Stancu, Magnetic domains structure of dc Joule-heated amorphous glass-covered magnetic wires, 7 th International Balkan Workshop on Applied Physics (IBWAP 2007 , 5-7 th July, 2007), Constanta.
40	Veronica Goian, Iordana Astefanoaei , Ioan Dumitru, Alexandru Stancu, The influence of magnetostatic interactions on magnetic properties of nanowire lattices, ROMSC 2007 , Iasi.
41	Iordana Astefanoaei , Ioan Dumitru, Raimond Grimberg and Alexandru Stancu, The energetic eigenstates of quantum dots systems, ROMSC 2007 , Iasi.
42	Iordana Astefanoaei Horia Chiriac and Alexandru Stancu, The internal thermal stresses during the cooling process of a nanowire from alumina membrane, The fourth edition IEEE ROMSC, Iasi, 26-30 may 2007 .



43	Iordana Aștefănoaei , Horia Chiriac and Alexandru Stancu, The thermal stresses induced in a Co nanowire from alumina membrane during the cooling process (E-028), Soft Magnetic Materials Conference (SMM 18), Cardiff, 2-5 September 2007.
44	Iordana Astefanoaei , Ioan Dumitru, Raimond Grimberg, Alexandru Stancu, The energetical states of quantum dots in the presence of a metallic layer (H-012), Joint European Magnetic Symposia (JEMS 06), San Sebastian, SPAIN 2006.
45	Iordana Astefanoaei , Horia Chiriac, Alexandru Stancu, Magnetic Anisotropy of Conventional Amorphous Wires (H-011), III Joint European Magnetic Symposia (Jems 06), 26-30 June, San Sebastian, Spain 2006.
46	Iordana Astefanoaei , Alexandru Stancu, Horia Chiriac, The effect of dc Joule-heating on magnetic structure of conventional amorphous wires (H-039), III Joint European Magnetic Symposia (Jems 06), 26-30 June, San Sebastian, Spain 2006.
47	Iordana Astefanoaei , Alexandru Stancu, The magnetic structure of conventional amorphous wires, Training school on NMR, MRI, μSR and Mössbauer techniques , September 17 – 30, 2006 , Università degli Studi di Pavia, Dipartimento di Fisica “A. Volta”.
48	Iordana Astefanoaei , Alexandru Stancu, Horia Chiriac, Magnetic Domains Structure of Dc Joule-Heated conventional Amorphous (MM256), 6th European Magnetic Sensors & Actuators Conference , Bilbao (Spain, July 2006).
49	Iordana Astefanoaei , Alexandru Stancu, Horia Chiriac, Magnetic Domains Structure of Conventional Amorphous Wires (MM313), 6th European Magnetic Sensors & Actuators Conference , Bilbao (Spain, July 2006).
50	Iordana Astefanoaei , Ioan Dumitru, Raimond Grimberg, Alexandru Stancu, The Effect of a metallic layer of energetical states of quantum dots (MS272), 6th European Magnetic Sensors & Actuators Conference , Bilbao (Spain, July 2006).
51	Al XV-lea Simpoziom Annual al Aroend, 14 - 16 iunie, Mamaia, Romania 2006 .
52	3rd International Workshop on Amorphous and Nanocomposite Magnetic Materials (ANMM 2005) , September 19-21, Iasi, Romania
53	3rd International Workshop on Amorphous and Nanocomposite Magnetic Materials (ANMM 2005) , September 19-21, Iasi, Romania.



54	One-day Seminar „Magnetic Nanomaterials Preparation, Characterization & Applications”, September 27, Iasi, Romania, 2004.
55	Aștefănoaei Iordana, Dariescu Ciprian, Dariescu Marina – Aura, On the cosmological universe described by the static globally pathologic planary exact solutions with $g_{44} = -f^2(z)$, Seminarul Internațional de Geometrie Finsler și Lagrange , Bacău, 16-20 february, 2000.
56	Aștefănoaei Iordana, Dariescu C., Dariescu M. A., „The globally pathologic properties of an exact class of solutions with $g_{44} = -\cosh(\alpha z)$ ”, The international conference on Finsler and Lagrange geometries”, Craiova, 11-14 februarie 1998.
57	Aștefănoaei Iordana, Dariescu Ciprian, Dariescu Marina – Aura, On static globally pathologic planar symmetric exact solution with $g_{44} = -\sin^2(\beta z)$, 1999, Conferința de Fizica Teoretică, Gravitatie și Relativitate Generală, Bistrița 1999.
58	Aștefănoaei Iordana, Maftai Gheorghe, The interaction of a gravitational wave with a pure radiation field, Proceedings the IV-rd and V-rd Conference of Theoretical Physics, General Relativity and Gravitation, Bistrița, may 1994 and may 1995.
59.	Aștefănoaei Iordana, Maftai Gheorghe, The primordial gravitational waves in Einstein-Rosen Universe, Proceedings the I – rd and II – rd Conference of Theoretical Physics, General Relativity and Gravitation, Bistrița, may 1993, pag 28-34.

II. ACTIVITATEA DIDACTICĂ (30%)

1. Tratatate și manuale universitare

Daniel Radu, Iordana Aștefănoaei, Notiuni fundamentale si probleme de mecanică analitică, Editura SEDCOM LIBRIS (2005), (510 pagini), ISBN 973-670-127-1.	30 puncte la 100 pagini/ număr de autori
Daniel Radu, Iordana Aștefănoaei, Ioan Merches, Culegere de probleme de electrodinamică, Editura ȘTEF (2009), (400 pagini), ISBN 978-973-1809-49-6.	76.5
	40
Total	116.5 puncte



2. Materiale suport curs, seminar, lucrări practice și programe analitice detaliate

- Programe analitice detaliate

1) Mecanică Teoretică, Fizică, Fizică Informatică, Fizică Tehnologică, Fizică Medicală, anul 2	10 puncte pentru fiecare activitate
2) Electrodinamică, Fizică Medicală, anul 2	
3) Electrodinamică și Teoria Relativității, Fizică Tehnologică, Extensiune UAIC, Bălți	30 puncte

- Materiale suport curs, seminar

-Mecanică Teoretică, -Electrodinamică și Teoria Relativității (ETR)	10 puncte pentru fiecare activitate
	20 puncte

3. **Organizare de aplicații și practică de specialitate - 5 puncte pentru fiecare activitate = total 105 puncte**

- 1) **(30puncte)** -Coordonare activități -Practică de specialitate pentru studenții de anii I-III Iași și Extensiune Bălți (5 studenți de la fiecare an de studiu) în 2015, 2016.
- 2) **(30 puncte)**- Coordonator de practică în stagii ERASMUS:
 - 2016 Balica Elena
 - 2017Andriuta Daniela
 - 2017Andriuta Oxana
 - 2017 Vrâncean Ana
 - 2019 Bumbac Maria
 - 2019 Garbuz Violeta
- 3) **(45 puncte)** - Membru Comisii de îndrumare Școala Doctorală:
 - 2010-2013 - dr. Ana-Maria Doagă
 - 2010-2013 – dr. Cristin Constantin
 - 2010-2013 – dr. Alina Cojocar
 - 2014-2018 – dr. Miha Denisa
 - 2011-2014 – dr. Octavian Caroaie
 - Prezent – Ciucu I. Lidia Cerasela
 - Filip G. Andreea-Georgiana
 - Zară Alexandru Dumitru
 - Sabie Valentina

Data:

10 Decembrie 2019

Semnătura:

Lect. Univ. Dr. Iordana Aștefănoaei