

**Fișa privind standardele minimale pe domenii ale Universității
"Alexandru Ioan Cuza din Iași" pentru PROFESOR UNIVERSITAR,
domeniul FIZICĂ**

**Îndeplinirea standardelor minimale obligatorii stabilite de comisia Fizică din
cadrul CNATDCU;**

Iordana AȘTEFĂNOAEI

Nr.	Criterii minimale conform ORDIN nr. 6129 din 20 decembrie 2016 PROFESOR	Punctaj Realizat
1	$A \geq 2$	A = 2.80
2	$I \geq 4$	I = 6.41
3	$P \geq 4$	P = 14.46
4	$C \geq 40$	C = 87.014
5	Indice Hirsch h (ISI WEB OF SCIENCE) ≥ 10	h = 12
6	$T \geq 13$	19.9857
	$T = A+(P/2)+(I/2)+(C/20)+(h/5)$	

Data,
29 mai 2026

Semnătura,
Conf. univ. dr. habil. Iordana Aștefănoaei

nume	gradul didactic	domeniul	1. Activitatea didactică și profesională											2. Activitatea de cercetare		3. Recunoașterea impactului activității		Total
AȘTEFĂNOAEI IORDANA	conf		Cărți în edituri internaționale recunoscute Web of Science în calitate de autor	Capitole de cărți în edituri internaționale recunoscute Web of Science în calitate de autor/ Review-uri	Cărți în edituri internaționale recunoscute Web of Science în calitate de editor	Cărți, manuale, îndrumare de laborator în edituri naționale sau alte edituri internaționale e ca autor, note interne,	Capitole de cărți în edituri naționale sau alte edituri internaționale e ca autor	Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate ISI	Brevete de invenție internațional e acordate	Brevete de invenție naționale acordate	Director/ responsabil/ coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale	Director/ responsabil pentru proiecte de cercetare câștigate în valoare de V euro prin competiție națională sau	Total criteriu A	Articole științifice originale în extenso ca autor	Articole științifice originale în extenso ca prim autor sau autor corespondent,	Citări în reviste științifice cu factor de impact care se regăsesc în InCites Journal Citation Reports sau în cărți în edituri recunoscute Web of Science	Indicele Hirsch	
			$A_1 = \sum_i 4 / n_i^{ef}$	$A_2 = \sum_i 1 / n_i^{ef}$	$A_3 = \sum_i 0.5 / n_i^{ef}$	$A_4 = \sum_i 0.5 / n_i^{ef}$	$A_5 = \sum_i 0.2 / n_i^{ef}$	$A_6 = \sum_i 0.2 / n_i^{ef}$	$A_7 = \sum_i 3 / n_i^{ef}$	$A_8 = \sum_i 0.5 / n_i^{ef}$	$A_9 = \sum_i 0.5$	$A_{10} = \sum_i V_i / 100.000$	$A = \sum_{i=1}^{10} A_i$	$I = \sum_i AIS_i / n_i^{ef}$	$P = \sum_i AIS_i$	$C = \sum_i c_i / n_i^{ef}$	h	
ASTEFĂNOAEI IORDANA	conf	FIZICĂ	0.00	0.83	0.00	0.58	0.00	0.88	0.00	0.00	0.50	0.00	2.80	6.41	14.46	87.014	12	19.98

Nota: se preiau valorile din fisele de calcul A, I-P și C

Criterii minimale - CNADTCU	prof/CS I
A	2
I	4
P	4
C	40
h	10
T = A + P / 2 + I / 2 + C / 20 + h / 5	12

conf. dr. habil Iordana Aștefănoaei

Activitatea didactica si profesionala			
1. Cărți în edituri internaționale recunoscute Web of Science în calitate de autor			
Date identificare	Numar autori	Numar efectiv	A1
	0	0	0.00
2. Capitole de cărți în edituri internaționale recunoscute Web of Science în calitate de autor/ Review-uri în reviste cotate ISI			
Date identificare	Numar autori	Numar efectiv	A2
Iordana Astefanoaei , Alexandru Stancu , Modeling of the Temperature Field in the Magnetic Hyperthermia (book chapter) în cartea: Numerical Simulations in Engineering and Science (2018), IntechOpen, ISBN 978-1-78923-451-0.	2	2	0.50
Astefanoaei Iordana ; Radu Daniel; Chiriac Horia, Temperature distribution in d.c. joule-heated amorphous magnetic materials , J OPTOELECTRON ADV M, 2005, 7(2) page 933-950 (review in revista ISI)	3	3	0.33
Total = A2			0.83
3. Cărți în edituri internaționale recunoscute Web of Science în calitate de editor			
Date identificare	Numar autori	Numar efectiv	A3
	0	0	0.00
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 cadrul colaborărilor mari			
Date identificare	Numar autori	Numar efectiv	A4
Daniel Radu, Iordana Aștefănoaei , Notiuni fundamentale si probleme de mecanica analitica , Editura SEDCOM LIBRIS (2005), ISBN 973-670-127-1.	2	2	0.25
Daniel Radu, Iordana Astefanoaei , Ioan Merches, Culegere de probleme de electrodinamică , Editura ȘTEF (2009), ISBN 978-973-1809-49-6.	3	3	0.17
Iordana Aștefănoaei , Ciprian Dariescu, Marina-Aura Dariescu, Modele speciale de Univers și patologii spațio-temporale , (2007); Editura Universitatii "Alexandru Ioan Cuza" din Iași, ISBN 978-973-703-205-8.	3	3	0.17
			0.58
5. Capitole de cărți în edituri naționale sau alte edituri internaționale ca autor			
Date identificare	Numar autori	Numar efectiv	A5
	1	1	0.00

6. Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate ISI

Date identificare	Numar autori	Numar efectiv	A6
1) <u>Iordana Astefanoaei</u> , Alexandru Stancu, A temperature analysis in magnetic hyperthermia (2017), AIP CONF PROC - TIM17 Physics Conference, 1916 (1), 040009	2	2	0.10
2) <u>Iordana Astefanoaei</u> , Alexandru Stancu, Horia Chiriac, Magnetic hyperthermia with Fe-Cr-Nb-B magnetic particles (2017), AIP CONF PROC - TIM15-16 Physics Conference, 1796 (1), 040006.	3	3	0.07
3) <u>Iordana Astefanoaei</u> , Alexandru Stancu, Horia Chiriac, Ioan Dumitru, Monitoring the thermal effects in the magnetic hyperthermia , IEEE-2013 E-HEALTH AND BIOENGINEERING CONFERENCE (EHB), (2013).	4	4	0.05
4) <u>Iordana Astefanoaei</u> , Alexandru Stancu, Magnetic Nanoparticle Dosimetry in Hyperthermia Therapy , AIP CONF PROC - TIM19 Physics Conference, (2019).	2	2	0.10
5) <u>Iordana ASTEFĂNOAEI</u> , Alexandru STANCU, Magnetic Hyperthermia with biocompatible coated nanoparticles: A temperature analysis , IOP Conference Series: Materials Science and Engineering, ICEMS-BIOMED conference	2	2	0.10
6) Massimo Pinto, Maria Pimpinella, Antonio Stefano Guerra, <u>Iordana Astefanoaei</u> , Maurizio Quini, Maria Pia 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, (2013), EPJ Web of Conferences journal vol 77 (2014), https://doi.org/10.1051/metrology/201305009	6	6	0.03
7) <u>Astefanoaei Iordana</u> ; Radu Daniel; Chiriac Horia, The residual stresses of FeBSi-type in an ingot mould , 3rd International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, published in JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Vol. 8, Issue 5, Page 1736-1740, (2006). (Proceeding paper)	3	3	0.07

8) Astefanoaei Iordana ; Chiriac Horia; Stancu Alexandru, The internal thermal stresses during the cooling process of a nanowire from alumina membrane , International Workshop on Exotic States in Materials with Strongly Correlated Electrons, Sinaia, Romania, 2007 volumul conferintei publicat in JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Volume 10, Issue 7, Page 1763-1766, (2008). (Proceeding paper)	3	3	0.07
9) Ionita Cristina-Elena; Radu Daniel; Astefanoaei Iordana , 3D-modelling of temperature gradients induced by electrical power dissipation in a 3-body Domen-type calorimeter for absorbed dose measurements , MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, Vol. 178 (19) 1275-1284, DOI10.1016/j.mseb.2013.03.007, (2013) Proceedings Paper, Conference Meeting9th International Conference on Physics of Advanced Materials (ICPAM)	3	3	0.07
10) Dumitru Ioan, Astefanoaei Iordana , Stancu Alexandru, Thermal stress dependence of magnetic hysteretic processes in core-shell nanoparticles , MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, Vol 178(19) page1323-1328, (2013), DOI10.1016/j.mseb.2013.03.001, Proceedings Paper, Conference Meeting9th International Conference on Physics of Advanced Materials (ICPAM)	3	3	0.07
11) Dumitru I; Astefanoaei I ; Grimberg R; Stancu A, The energy states of cylindrical quantum dot systems , JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, 10(2), Page327-330 (2008); Proceedings Paper, Conference Meeting 8th International Balkan Workshop on Applied Physics, Constanta, ROMANIA, 05-07, 2007	4	4	0.05

12) Dumitru Ioan; Astefanoaei Iordana ; Cimpoesu Dorin; Stancu Alexandru, Magnetic behavior of Joule-heated magnetic core-shell nanowires with positive magnetostrictive core material , APPLIED SURFACE SCIENCE, (2015), 352 (pag54-59) Proceedings Paper, 10th International Conference on Physics of Advanced Materials (ICPAM)	4	4	0.05
13) Daniel Radu, Iordana Aștefănoaei , Cătălin Agheorghiesei, Dissipation and Thermal Time Constants in Graphite of an Ultra-Small Bead Thermistor , capitol de carte in Recent Advances in Technology Research and Education Proceeding of the 16 th International Conference on Global Research and Education Inter - Academia 2017. Springer International Publishing AG (2018) . ISBN: 978-3-319-67459-9 (eBook) Print ISBN:978-3-319-67458-2;	3	3	0.07
			0.88
7. Brevete de invenție internaționale acordate			
Date identificare	Numar autori	Numar efectiv	A7
	0	0	0.00
8. Brevete de invenție naționale acordate			
Date identificare	Numar autori	Numar efectiv	A8
	0	0	0.00
9. Director/ responsabil/ coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură (proiectele de cercetare se exclud) / 0.5 pe activitate			
Date identificare			A9
Responsabil programul de studii Fizica			0.50
Total			0.50
10. Director/ responsabil pentru proiecte de cercetare in valoare euro câștigate prin competiție națională sau internațională			
Date identificare	Suma totala in Euro		A10
			0.00
TOTAL			2.80

Activitatea de cercetare

Titlu articol	Autori	Jurnal	An	Vol	Pag	prim autor/ corespon dent	numar autori	Numar efectiv	AIS	I	P
1) Magnetic nanoparticles clustering effects on the temperature field in magnetic hyperthermia	Viorica Monica Moisiuc, <u>Iordana Astefanoaei</u> , A Stancu	AIP Advances	2026	16(2)		1	3	3	0.250	0.083	0.250
2) Tunable Magnetic Heating in La0. 51Sr0. 49MnO3 and La0. 51Dy0. 045Sr0. 445MnO3 Nanoparticles: Frequency-and Amplitude-Dependent Behavior	Mourad Smari, Monica Viorica Moisiuc, Mohammad Y Al-Haik, <u>Iordana Astefanoaei</u> , Alexandru Stancu, Fedor Shelkovyi, Radel Gimaev, Julia Piashova, Vladimir Zverev, Yousef Haik	Nanomaterials	2025	15(9)		0	10	7.5	0.684	0.091	0.000
3) Cubic and Sphere Magnetic Nanoparticles for Magnetic Hyperthermia Therapy: Computational Results	<u>Iordana Astefanoaei</u> , Radel Gimaev, Vladimir Zverev, Alexander Tishin, Alexandru Stancu	Nanomaterials	2023	13(16)		1	5	5	0.648	0.130	0.000

4) Cobalt Ferrite Nanoparticles Capped with Perchloric Acid for Life-Science Application	Helmina Ardeleanu, Gabriel Ababei, Marian Grigoras, Laura Ursu, Nicoleta Melniciuc-Puica, <u>lordana Astefanoaei</u> , Daniela Pricop, Nicoleta Lupu, Dorina Creanga	Cristals	2023	13/7	1058	0	9	7	1.000	0.143	0.000
5) Heat transfer computations in an intravascular tumoral region for magnetic hyperthermia	<u>Astefanoaei lordana</u> ; Stancu Alexandru	EUROPEAN PHYSICAL JOURNAL PLUS	2022	137(10)	12	1	2	2.00	0.940	0.47	0.94
6) Optimal control of the hyperthermic thermal damage within intravascular tumoral regions	<u>Astefanoaei lordana</u> ; Stancu Alexandru	Journal of Magnetism and Magnetic Materials	2021	537	12	1	2	2.00	0.968	0.48	0.968
7) Thermo-fluid porosity-related effects in the magnetic hyperthermia,	<u>Astefanoaei lordana</u> ; Stancu Alexandru	European Physical Journal Plus	2021	136(12)	11	1	2	2.00	1.107	0.55	1.107
8) Modelling of working parameters of Gd and FeRh nanoparticles for magnetic hyperthermia	<u>lordana Astefanoaei</u> , Radel Gimaev, Vladimir I Zverev, Alexandru Stancu	Materials Research Express	2019	6(12)	10	1	4	4.00	0.236	0.06	0.236

9) A computational study of the bioheat transfer in magnetic hyperthermia cancer therapy	<u>Astefanoaei Iordana</u> ; Stancu Alexandru	J. APPL.PHYS	2019	125 (19)	13	1	2	2.00	0.544	0.27	0.544
10) Thermal performance of Fe-Cr-Nb-B systems in magnetic hyperthermia	<u>Astefanoaei Iordana</u> ; Chiriac Horia; Stancu Alexandru	J. APPL.PHYS	2017	121 (10)	10	1	3	3.00	0.561	0.19	0.561
11) Advanced thermo-mechanical analysis in the magnetic hyperthermia	<u>Astefanoaei Iordana</u> ; Stancu Alexandru	J. APPL.PHYS	2017	132 (2)	12	1	2	2.00	0.561	0.28	0.561
12) Numerical simulation of the temperature field in magnetic hyperthermia with Fe-Cr-Nb-B magnetic particles	<u>Astefanoaei Iordana</u> ; Stancu Alexandru; Chiriac Horia	EUR J PHYS PLUS	2017	132 (2)		1	3	3.00	0.406	0.14	0.406
13) Investigation of the temperature field in the magnetic hyperthermia using FeCrNbB magnetic particles	<u>Astefanoaei Iordana</u> ; Chiriac Horia; Stancu Alexandru	EUR J PHYS PLUS	2016	131 (9)	15	1	3	3.00	0.381	0.13	0.381

14) A graphite calorimeter for absolute measurements of absorbed dose to water: application in medium-energy x-ray filtered beams	Pinto M.; Pimpinella M.; Quini M.; D'Arienzo M.; <u>Astefanoaei I.</u> ; Loreti S.; Guerra A. S.	Physics in Medicine & Biology	2016	61 (4)	32	0	7	6.00	0.9010	0.15	0.000
15) Thermofluid Analysis in Magnetic Hyperthermia Using Low Curie Temperature Particles	<u>Astefanoaei Iordana</u> ; Dumitru Ioan; Chiriac Horia; Stancu Alexandru	IEEE TRANS MAGN	2016	52	10	1	4	4.00	0.3480	0.09	0.348
16) A thermo-fluid analysis in magnetic hyperthermia	<u>Astefanoaei Iordana</u> ; Dumitru Ioan; Stancu Alexandru; Chiriac Horia	CHINESE PHYS B	2014	23 (4)	12	1	4	4.00	0.2280	0.06	0.228
17) Use of the Fe-Cr-Nb-B Systems With Low Curie Temperature as Mediators in Magnetic Hyperthermia	<u>Astefanoaei Iordana</u> ; Dumitru Ioan; Chiriac Horia; Stancu Alexandru	IEEE TRANS MAGN	2014	50 (11)	10	1	4	4.00	0.4030	0.10	0.403
18) Controlling temperature in magnetic hyperthermia with low Curie temperature particles	<u>Astefanoaei Iordana</u> ; Dumitru Ioan; Chiriac Horia; Stancu Alexandru	J. APPL. PHYS	2014	115 (17)	12	1	4	4.00	0.6820	0.17	0.682

19) Size-dependent thermal stresses in the core-shell nanoparticles	<u>Astefanoaei Iordana</u> ; Dumitru Ioan; Stancu Alexandru	CHINESE PHYS B	2013	22 (12)	9	1	3	3.00	0.1660	0.06	0.166
20) A standard graphite calorimeter for dosimetry in brachytherapy with high dose rate Ir-192 sources	Guerra A. S.; Loreti S.; Pimpinella M.; Quini M.; D'Arienzo M.; <u>Astefanoaei I.</u> ; Caporali C.; Bolzan C.; Pagliari M.	METROLOGIA	2012	49 (5)	20	0	9	7.00	0.6990	0.10	0.00
21) Induced Thermal Stresses in Core Shell Magnetic Particles	<u>Astefanoaei Iordana</u> ; Dumitru Ioan; Stancu Alexandru	IEEE T MAGN	2011	47	10	1	3	3.00	0.3870	0.13	0.387
22) Chiral Electrons in Static Fields at Finite Temperature	Dariescu Marina-Aura; Buhucianu Ovidiu; <u>Astefanoaei Iordana</u>	Rom Journal of Physics	2011	56 (9-10)	14	0	3	3.00	0.0950	0.03	0.00
23) Heat loss through connecting thermistor wires in a three-body graphite calorimeter	Radu Daniel; Guerra Antonio Stefano; Ionita Cristina-Elena; <u>Astefanoaei Iordana</u>	METROLOGIA	2010	47 (3)	10	0	4	4.00	0.5060	0.13	0.00
24) Radiative Heat Loss Correction for 3-Body Graphite Calorimeters	Radu Daniel, Ionita Cristina-Elena, <u>Astefanoaei Iordana</u>	ACTA PHYS POL A	2010	118 (4)	7	0	3		0.1170	0.04	0.00

25) The energy eigenstates of two quantum dots systems placed at the air-semiconductor interface	Dumitru Ioan; <u>Astefanoaei Iordana</u> ; Stancu Alexandru	J OPTOELECTRON ADV M	2009	11 (5)	8	0	3	3.00	0.1150	0.04	0.00
26) The effect of temperature on magnetostatic interactions in nanowires systems	Goian Veronica; Dumitru Ioan; <u>Astefanoaei Iordana</u> ; Stancu Alexandru	J OPTOELECTRON ADV M	2009	11(8)	9	0	4	4.00	0.1150	0.03	0.00
27) The temperature dependence of hysteretic processes in Co nanowires arrays	<u>Astefanoaei Iordana</u> ; Dumitru Ioan; Diaconu Andrei; Spinu Leonard; Stancu Alexandru	J. APPL.PHYS	2008	103 (7)	8	1	5	5.00	0.9450	0.19	0.945
28) Magnetic domains structure of dc Joule-heated amorphous glass-covered magnetic wires	<u>Astefanoaei Iordana</u> ; Chiriac Horia; Stancu Alexandru	J.OPTOELECTRON ADV M	2008	10 (2)	10	1	3	3.00	0.1130	0.04	0.113
29) Magnetic domains structure of DC Joule-heated conventional amorphous wires	<u>Astefanoaei Iordana</u> ; Stancu Alexandru; Chiriac Horia	SENS.LETT.	2007	5 (1)	9	1	3	3.00	0.4330	0.14	0.433
30) The energetic states of quantum dots in the presence of a metallic layer	<u>Astefanoaei Iordana</u> ; Dumitru Ioan; Grimberg Raimond; Stancu Alexandru	J MAGN MAGN MATER	2007	316(2)	5	1	4	4.00	0.4870	0.12	0.487

31) The effect of a metallic layer on energetic states of quantum dots	<u>Astefanoaei Iordana</u> ; Dumitru Ioan; Grimberg Raimond; Stancu Alexandru	SENS.LETT.	2007	5 (1)	5	1	4	4.00	0.4330	0.11	0.433
32) The effect of DC Joule-heating on magnetic structure of conventional amorphous wires	<u>Astefanoaei Iordana</u> ; Stancu Alexandru; Chiriac Horia	J MAGN MAGN MATER	2007	316 (2)	5	1	3	3.00	0.4870	0.16	0.487
33) Induced residual stresses in the preparation process of the glass-covered amorphous magnetic microwires	<u>Astefanoaei Iordana</u> ; Radu Daniel; Chiriac Horia	J.OPTOELECTRON ADV M	2006	8 (3)	5	1	3	3.00	0.1610	0.05	0.161
34) The supplementary compression stresses in Fe77.5Si7.5B15 wires	<u>Astefanoaei Iordana</u> ; Radu Daniel; Chiriac Horia	J.OPTOELECTRON ADV M	2006	8(6)		1	3	3.00	0.1610	0.05	0.161
35) Distribution of the internal stresses in DC Joule-heated Fe77.5B15Si7.5 conventional amorphous microwires	<u>Astefanoaei Iordana</u> ; Radu Daniel	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2006	39 (18)		1	2	2.00	0.9110	0.46	0.911

36) Internal stress distribution in DC joule-heated amorphous glass-covered microwires	<u>Astefanoaei Iordana</u> ; Radu Daniel; Chiriac Horia	J PHYS-CONDENS MAT	2006	18 (9)		1	3	3.00	1.0240	0.34	1.024
37) On dc Joule-heating effects in amorphous glass-covered Fe77.5Si7.5B15 microwires	<u>Astefanoaei Iordana</u> ; Radu Daniel; Chiriac Horia	J PHYS D APPL PHYS	2005	38 (2)		1	3	3.00	0.9110	0.30	0.911
38) Temperature distribution in dc Joule-heated amorphous ribbons	<u>Astefanoaei Iordana</u> ; Radu Daniel; Chiriac Horia	PHYS STATUS SOLIDI A	2005	202 (13)		1	3	3.00	0.4710	0.16	0.471
39) A model of the DC Joule heating in amorphous wires	Chiriac Horia; <u>Astefanoaei Iordana</u>	PHYS STATUS SOLIDI A	1996	153(1)	8	0	2	2.00	0.4710	0.24	0.00
TOTAL									6.41	14.46	
									Profesor	4.00	4.00

Note:

Coloanele A-F pot fi prezentate și comasat.

Numărul efectiv de autori este calculat conform formulelor din Anexa nr. 3, OM 6129/2016:

n, dacă $n \leq 5$; $(n + 5)/2$, dacă $5 < n \leq 15$; $(n + 15)/3$, dacă $15 < n \leq 75$ și $(n + 45)/4$, dacă $n > 75$.

29 mai 2026

conf. dr. habil Iordana Aștefănoaei

CITĂRI

Titlu articol	Autori	Jurnal	An	Vol	Pag	n (numar autori)	numar efectiv	numar citari (fara autocitari)	c/n_ef
1)Tunable Magnetic Heating in La0.51Sr0.49MnO3 and La0.51Dy0.045Sr0.445MnO3 Nanoparticles: Frequency- and Amplitude-Dependent Behavior	Smari, M; Moisiuc, MV; Al-Haik, MY; <u>Astefanoaei, I</u> ; Stancu, A; Shelkovyi, F; Gimaev, R; Piashova, J ; Zverev, V; Haik	Nanomaterials	2025	15(9)		11	7.5	5	0.667
2) Cubic and Sphere Magnetic Nanoparticles for Magnetic Hyperthermia Therapy: Computational Results	<u>Iordana Astefanoaei</u> , Radel Gimaev, Vladimir Zverev, Alexander Tishin, Alexandru Stancu	Nanomaterials	2023			5	5.0	10	2.000
3) Cobalt Ferrite Nanoparticles Capped with Perchloric Acid for Life-Science Application	Ardeleanu, H; Ababei, G; Grigoras, M; Ursu, L; Melniciuc-Puica, N; <u>Astefanoaei, I</u> ; Pricop, D; Lupu, N; Creanga, D	CRISTALS	2025				6.0	3	0.500

4) Heat transfer computations in an intravascular tumoral region for magnetic hyperthermia	<u>Astefanoaei Iordana;</u> Stancu Alexandru	EUROPEAN PHYSICAL JOURNAL PLUS	2022	137(10)	12	2	2.0	1	0.50
5) Optimal control of the hyperthermic thermal damage within intravascular tumoral regions	<u>Astefanoaei Iordana;</u> Stancu Alexandru	Journal of Magnetism and Magnetic Materials	2021	537	12	2	2.0	5	2.50
6) Thermo-fluid porosity-related effects in the magnetic hyperthermia,	<u>Astefanoaei Iordana;</u> Stancu Alexandru	European Physical Journal Plus	2021	136(12)	11	2	2.0	5	2.50
7) Modelling of working parameters of Gd and FeRh nanoparticles for magnetic hyperthermia	Iordana Astefanoaei , Radel Gimaev, Vladimir I Zverev, Alexandru Stancu	Materials Research Express	2019	6(12)	10	4	4.0	10	2.50
8)Magnetic Nanoparticle Dosimetry in Hyperthermia Therapy	<u>Astefanoaei Iordana;</u> Stancu Alexandru	AIP Conference Proceedings indexat ISI	2020	2218			2.0	1	0.50
9) A computational study of the bioheat transfer in magnetic hyperthermia cancer therapy	<u>Astefanoaei Iordana;</u> Stancu Alexandru	J. APPI.PHYS	2019	125 (19)	13	2	2.0	13	6.50

10) Thermal performance of Fe-Cr-Nb-B systems in magnetic hyperthermia	<u>Astefanoaei Iordana;</u> Chiriac Horia; Stancu Alexandru	J. APPL.PHYS	2017	121 (10)	10	3	3.0	11	3.67
11) Advanced thermo-mechanical analysis in the magnetic hyperthermia	<u>Astefanoaei Iordana;</u> Stancu Alexandru	J. APPL.PHYS	2017	122 (16)	12	2	2.0	8	4.00
12) Numerical simulation of the temperature field in magnetic hyperthermia with Fe-Cr-Nb-B magnetic particles	<u>Astefanoaei Iordana;</u> Stancu Alexandru; Chiriac Horia	EUR J PHYS PLUS	2017	132 (2)		3	3.0	9	3.00
13) Investigation of the temperature field in the magnetic hyperthermia using FeCrNbB magnetic particles	<u>Astefanoaei Iordana;</u> Chiriac Horia; Stancu Alexandru	EUR J PHYS PLUS	2016	131 (9)	15	3	3.0	8	2.67
14) Magnetic Hyperthermia with Fe - Cr- Nb - B Magnetic Particles	<u>Iordana Astefănoaei,</u> Alexandru STANCU, H Chiriac	AIP Conference Proceedings --Isi Conference Proceeding	2016				3.0	3	1.00
15) A Temperature Analysis in Magnetic Hyperthermia	<u>Iordana Astefănoaei,</u> Alexandru STANCU	AIP Conference Proceedings --Isi Conference Proceeding	2017			2	2.0	2	1.00

16) Thermofluid Analysis in Magnetic Hyperthermia Using Low Curie Temperature Particles	<u>Astefanoaei Iordana;</u> Dumitru Ioan; Chiriac Horia; Stancu Alexandru	IEEE TRANS MAGN	2016	52	10	4	4.0	28	7.00
17) A graphite calorimeter for absolute measurements of absorbed dose to water: application in medium-energy x-ray filtered beams	Pinto M.; Pimpinella M.; Quini M.; D'Arienzo M.; <u>Astefanoaei I.</u> ; Loreti S.; Guerra A. S.	Physics in Medicine & Biology	2016	61 (4)	32	7	6.0	15	2.50
18) A thermo-fluid analysis in magnetic hyperthermia	<u>Astefanoaei Iordana;</u> Dumitru Ioan; Stancu Alexandru; Chiriac Horia	CHINESE PHYS B	2014	23 (4)	12	4	4.0	23	5.75
19) Use of the Fe-Cr-Nb-B Systems With Low Curie Temperature as Mediators in Magnetic Hyperthermia	<u>Astefanoaei Iordana;</u> Dumitru Ioan; Chiriac Horia; Stancu Alexandru	IEEE TRANS MAGN	2014	50 (11)	10	4	4.0	7	1.75
20) Controlling temperature in magnetic hyperthermia with low Curie temperature particles	<u>Astefanoaei Iordana;</u> Dumitru Ioan; Chiriac Horia; Stancu Alexandru	J. APPL.PHYS	2014	115 (17)	12	4	4.0	24	6.00

21) Size-dependent thermal stresses in the core-shell nanoparticles	Astefanoaei Iordana; Dumitru Ioan; Stancu Alexandru	CHINESE PHYS B	2013	22 (12)	9	3	3.0	3	1.00
22) A standard graphite calorimeter for dosimetry in brachytherapy with high dose rate Ir-192 sources	Guerra A. S.; Loreti S.; Pimpinella M.; Quini M.; D'Arienzo M.; Astefanoaei I. ; Caporali C.; Bolzan C.; Pagliari M.	METROLOGIA	2012	49 (5)	20	9	7.0	12	1.71
23) Induced Thermal Stresses in Core Shell Magnetic Particles	Astefanoaei Iordana; Dumitru Ioan; Stancu Alexandru	IEEE T MAGN	2011	47	10	3	3.0	4	1.33
24) Chiral Electrons in Static Fields at Finite Temperature	Dariescu Marina-Aura; Buhucianu Ovidiu; Astefanoaei Iordana	Rom Journal of Physics	2011	56 (9-10)	14	3	3.0	5	1.67
25) Monitoring the thermal effects in the Magnetic Hyperthermia	Iordana AȘTEFĂNOAEI, Ioan DUMITRU, Alexandru STANCU and Horia CHIRIAC	E-Health and Bioengineering Conference (EHB), ISI Conference Proceeding				4	4.0	2	0.50
26) Heat loss through connecting thermistor wires in a three-body graphite calorimeter	Radu Daniel; Guerra Antonio Stefano; Ionita Cristina-Elena; Astefanoaei Iordana	METROLOGIA	2010	47 (3)	10	4	4.0	4	1.00

27) Radiative Heat Loss Correction for 3-Body Graphite Calorimeters	Radu Daniel, Ionita Cristina-Elena, <u>Astefanoaei Iordana</u>	ACTA PHYS POL A	2010	118 (4)	7	3	3.0	4	1.33
28) The energy states of cylindrical quantum dot systems	Dumitru Ioan; <u>Astefanoaei Iordana</u> ; Grimberg Raimond; Stancu Alexandru	J OPTOELECTRON ADV M	2008	10 (2)	9	4	4.0	1	0.25
29) The temperature dependence of hysteretic processes in Co nanowires arrays	<u>Astefanoaei Iordana</u> ; Dumitru Ioan; Diaconu Andrei; Spinu Leonard; Stancu Alexandru	J. APPL. PHYS	2008	103 (7)	8	5	5.0	4	0.80
30) Magnetic domains structure of dc Joule-heated amorphous glass-covered magnetic wires	<u>Astefanoaei Iordana</u> ; Chiriac Horia; Stancu Alexandru	J.OPTOELECTRON ADV M	2008	10 (2)	10	3	3.0	2	0.667
31) The effect of a metallic layer on energetic states of quantum dots	<u>Astefanoaei Iordana</u> ; Dumitru Ioan; Grimberg Raimond; Stancu Alexandru	SENS.LETT.	2007	5 (1)	5	4	4.0	1	0.25
32) The effect of DC Joule-heating on magnetic structure of conventional amorphous wires	<u>Astefanoaei Iordana</u> ; Stancu Alexandru; Chiriac Horia	J MAGN MAGN MATER	2007	316 (2)	5	3	3.0	4	1.33
33) Induced residual stresses in the preparation process of the glass-covered amorphous magnetic microwires	<u>Astefanoaei Iordana</u> ; Radu Daniel; Chiriac Horia	J.OPTOELECTRON ADV M	2006	8 (3)	5	3	3.0	1	0.33

34) The supplementary compression stresses in Fe77.5Si7.5B15 wires	Astefanoaei Iordana ; Radu Daniel; Chiriac Horia	J.OPTOELECTRON ADV M	2006	8(6)		3	3.0	1	0.33
35) Distribution of the internal stresses in DC Joule-heated Fe77.5B15Si7.5 conventional amorphous microwires	Astefanoaei Iordana ; Radu Daniel	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2006	39 (18)		2	2.0	1	0.50
36) Internal stress distribution in DC joule-heated amorphous glass-covered microwires	Astefanoaei Iordana ; Radu Daniel; Chiriac Horia	J PHYS-CONDENS MAT	2006	18 (9)		3	3.0	24	8.00
37) Temperature distribution in dc Joule-heated amorphous ribbons	Astefanoaei Iordana ; Radu Daniel; Chiriac Horia	PHYS STATUS SOLIDI A	2005	202 (13)		3	3.0	3	1.00
38) On dc Joule-heating effects in amorphous glass-covered Fe77.5Si7.5B15 microwires	Astefanoaei Iordana ; Radu Daniel; Chiriac Horia	J PHYS D APPL PHYS	2005	38 (2)		3	3.0	3	1.00
39) Temperature distribution in d.c. joule-heated amorphous magnetic materials	Astefanoaei Iordana ; Radu Daniel; Chiriac Horia	J OPTOELECTRON ADV M	2005	7(2)	17	3	3.0	4	1.33
40) A model of the DC Joule heating in amorphous wires	Chiriac Horia; Astefanoaei Iordana	PHYS STATUS SOLIDI A	1996	153(1)	8	2	2.0	11	5.50

41)A new graphite calorimeter for the measurement of absorbed dose to water in medium energy x-ray beams, https://doi.org/10.1051/metrology/201305009	Massimo Pinto, Maria Pimpinella, Antonio Stefano Guerra, <u>Iordana Aștefănoaei</u> , Stefano Loreti, Maurizio Quini, and Maria Pia Toni	EPJ Web of Conferences journal, Indexat ISI	2014	77		7	6.0	1	0.167
42) Magnetic Hyperthermia with biocompatible coated nanoparticles: A temperature analysis	Iordana Aștefănoaei and Alexandru Stancu	IOP Conference Series: Materials Science and Engineering - indexat ISI - International Conference on Electromagnetic Fields, Signals and BioMedical Engineering (ICEMS-BIOMED 2022) 18/05/2022 - 20/05/2022 Sibiu, Romania	2022			2	2.0	1	0.500
	Total								87.014
Profesor									40.000
								287.00	

29 mai 2026

Conf. univ. dr. habil. Iordana
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	Autori	Titlul lucrării	Referința bibliografică	ISI Factor	vol (nr)	pag	an	nr autori (ni)	ni_eff	Ci/ni_eff
2025	Smari, M, MV Moisiuc; Al-Haik, MY ; Astefanoaei, I ; Stancu, A; Shelkovyi, F; Gimaev, R; Piashova, J; Zverev, V; Haik, Y	1) Tunable Magnetic Heating in La0.51Sr0.49MnO3 and La0.51Dy0.045Sr0.445MnO3 Nanoparticles: Frequency- and Amplitude-Dependent Behavior	Nanomaterials		15(9)		2025		7.5	0.667
	citata in 5 lucrari									
1	Gavilán, H (Gavilan, Helena); Gallo-Cordova, A (Gallo-Cordova, Alvaro); Rábade-Chediak, M (Rabade-Chediak, Maura); Páez-Rodríguez, A (Paez-Rodriguez, Amira); Morales, MD (Morales, Maria del Puerto) ; Gutiérrez, L (Gutierrez, Lucia)	Magnetic hyperthermia in focus: emerging non-cancer applications of magnetic nanoparticles	NANOSCALE	5.1	17(48)	27734-27761	2025			
2	Hjiri, M (Hjiri, Mokhtar); Mustapha, N (Mustapha, N.)	Sol-gel derived magnetic oxide nanomaterials: synthesis, properties, and spintronic applications	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	3.2	116(2)	1558-1580	2025			
3	Nassar, KI (Nassar, Kais Iben); Teixeira, SS (Teixeira, Silvia Soreto) ; Graça, MPF (Graca, Manuel P. F.)	Sol-Gel-Synthesized Metal Oxide Nanostructures: Advancements and Prospects for Spintronic Applications-A Comprehensive Review	GELS	5.3	11(8)		2025			

4	Moualhi, Y (Moualhi, Y.) ; Selmi, A (Selmi, A.) ; Rahmouni, H (Rahmouni, H.)	Inductive-like Nyquist responses and tunable transport mechanisms in Cr-doped Manganites: Toward next-generation sensors and electronic devices	CERAMICS INTERNATIONAL	5.6	52(5)	6610-6622	2026			
5	Mengesha, WG (Mengesha, Wubshet Getachew)	Optimization of magnetic nanomaterials for enhanced medical imaging and hyperthermia	DISCOVER MATERIALS	5.1	6(1)		2026			
2023	Astefanoaei, I; Gimaev, R; Zverev, V; Tishin, A; Stancu, A	2) Cubic and Sphere Magnetic Nanoparticles for Magnetic Hyperthermia Therapy: Computational Results	NANOMATERIALS		13(16)		2023		5	2
	citata in 10 lucrari									
1	Prishchepa, A (Prishchepa, Anastasiia); Ivanova, A (Ivanova, Anna); Lazareva, P (Lazareva, Polina); Abakumov, M (Abakumov, Maxim); Nikitin, A (Nikitin, Aleksey)	Morphology-dependent heat generation efficiency of cobalt ferrite nanoparticles for magnetic hyperthermia application	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	3	642		2026			
2	Tong, YH (Tong, Yihang); Zhao, ZN (Zhao, Zinan); Zhai, PH (Zhai, Penghua); Zeng, Y (Zeng, Yu); Wu, H (Wu, Han); Shi, JJ (Shi, Jiajie); Wang, F (Wang, Fan) ; Wang, L (Wang, Liu); Zhong, XL (Zhong, Xiaolan); Mu, W (Mu, Wei); Chang, LQ (Chang, Lingqian)	From individual modalities to multi-physical synergy: Implantable electronic, photonic, magnetic platforms for the treatment of internal organ diseases	APPLIED PHYSICS REVIEWS	11.2	12(3)		2025			

3	Zhou, GL (Zhou, Guanlin); Wang, C (Wang, Chao); Li, H (Li, Heng); Filipovic, N (Filipovic, Nenad); Wu, CW (Wu, Chengwei); Zhang, W (Zhang, Wei)	Alternating magnetic field pretreatment promotes cellular endocytosis to enhance the efficacy of magnetic hyperthermia	JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY	4.9	114A		2025			
4	Asghar, T (Asghar, Tanzeela); Naz, MY (Naz, Muhammad Yasin); Kareri, T (Kareri, Tareq); Afzal, S (Afzal, Saba); Goshi, N (Goshi, Nosheen); Irfan, M (Irfan, Muhammad); Jalalah, M (Jalalah, Mohammed)	Comparative Numerical Analyses of Heat Generation in Pristine and Encapsulated Metallic Nanostructures for Enhanced Hyperthermia Efficiency	JOURNAL OF ELECTRONIC MATERIALS	2.5	54(10)	8492-8518	2025			
5	Poon, K (Poon, Kingsley); Singh, G (Singh, Gurvinder)	Are cubic nanoparticles really better than spherical nanoparticles for magnetic hyperthermia?	APPLIED MATERIALS TODAY	6.9	44		2025			
6	Sert, B (Sert, Buse); Kaya, G (Kaya, Gul); Tataroglu, AA (Tataroglu, Aleyna Akcay); Harputlu, E (Harputlu, Ersan); Simsek, T (Simsek, Telem); Tekguel, A (Tekguel, Atakan); Unlu, CG (Unlu, C. Gokhan); Yurt, F (Yurt, Fatma); Ocakoglu, K (Ocakoglu, Kasim)	Investigating the effect of coating and synthesis parameters on La1-xSrxMnO3 based core-shell magnetic nanoparticles	APPLIED SURFACE SCIENCE	6.9	680		2025			

7	Afzal, S (Afzal, Saba) [1] ; Naz, MY (Naz, Muhammad Yasin) [1] ; Abbas, G (Abbas, Ghulam) [2] ; Qamar, M (Qamar, Muhammad) [2] ; Ibrahim, AA (Ibrahim, Ahmed Ahmed) [3] ; Khan, Y (Khan, Yasin) [4]	Numerical study of optical and thermal response of gold and silver coated copper nanostructures for hyperthermia	JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY- JMR&T	6.6	33	2391-2413	2024			
8	Munoz, JM (Munoz, Juan Matheus); Pileggi, GF (Pileggi, Giovana Fontanella); Nucci, MP (Nucci, Mariana Penteado) ; Alves, AD (Alves, Arielly da Hora); Pedrini, F (Pedrini, Flavia); do Valle, NME (do Valle, Nicole Mastandrea Ennes); Mamani, JB (Mamani, Javier Bustamante) ; de Oliveira, FA (de Oliveira, Fernando Anselmo); Lopes, AT (Lopes, Alexandre Tavares); Carreño, MNP (Carreno, Marcelo Nelson Paez) ; Gamarra, LF (Gamarra, Lionel Fernel)	In Silico Approach to Model Heat Distribution of Magnetic Hyperthermia in the Tumoral and Healthy Vascular Network Using Tumor-on-a-Chip to Evaluate Effective Therapy	PHARMACEUTICS	5.5	16(9)		2024			
9	Sala, K (Sala, Katarzyna) ; Cholewa, K (Cholewa, Krzysztof); Bankosz, M (Bankosz, Magdalena) ; Tyliczszak, B (Tyliczszak, Bozena)	Analysis of Surface and Physicochemical Properties of Novel Hydrogel Materials Supported with Magnetic Nanoparticles	COATINGS	2.8	13(11)		2023			
10	Singla, A (Singla, Alka) ; Marwaha, A (Marwaha, Anupma); Marwaha, S (Marwaha, Sanjay)	Microwave Ablation Assisted by PEG-Coated CoFe₂O₄ Nanoparticles: A Simulation-Based Study on Antenna and Nanoparticle Synergy	CURRENT MICROWAVE CHEMISTRY	0.9			2026			

	Lu, YW (Lu, Yawen) ; Huang, CF (Huang, Chongfei); Fu, WK (Fu, Wenkang); Gao, L (Gao, Long); Mi, NN (Mi, Ningning); Ma, HD (Ma, Haidong); Bai, MZ (Bai, Mingzhen) ; Xia, ZL (Xia, Zhili); Zhang, XZ (Zhang, Xianzhuo); Tian, L (Tian, Liang); Zhao, JY (Zhao, Jinyu); Jiang, NZ (Jiang, Ningzu); Wang, LQ (Wang, Leiqing); Zhong, RY (Zhong, Ruyang) ; Zhang, C (Zhang, Chao) ; Wang, YY (Wang, Yeying); Lin, YY (Lin, Yanyan); Yue, P (Yue, Ping) ; Meng, WB (Meng, Wenbo)	Design of the distribution of iron oxide (Fe₃O₄) nano-particle drug in realistic cholangiocarcinoma model and the simulation of temperature increase during magnetic induction hyperthermia	PHARMACOLOGICAL RESEARCH	10.5	207			2024		
2021	Iordana Aștefănoaei , Alexandru Stancu,	5) Optimal control of the hyperthermic thermal damage within intravascular tumoral regions	Journal of Magnetism and Magnetic Materials		537	168221	2021		2	2.5
	citata in 5 lucrari									
1	Etminan, A (Etminan, Andisheh) ; Dahaghin, A (Dahaghin, Ali); Emadiyanrazavi, S (Emadiyanrazavi, Seyedhamidreza); Salimibani, M (Salimibani, Milad); Eivazzadeh-Keihan, R (Eivazzadeh-Keihan, Reza); Haghpanahi, M (Haghpanahi, Mohammad) ; Maleki, A (Maleki, Ali)	Simulation of heat transfer, mass transfer and tissue damage in magnetic nanoparticle hyperthermia with blood vessels DOI10.1016/j.jtherbio.2022.103371	JOURNAL OF THERMAL BIOLOGY	3.189		110	2022			

2	Chapa-Gonzalez, C (Chapa-Gonzalez, Christian) ; Sosa, KV (Valeria Sosa, Karla); Roacho-Perez, JA (Alberto Roacho-Perez, Jorge) ; Garcia-Casillas, PE (Elvia Garcia-Casillas, Perla)	Adsorption of serum protein in chitosan-coated and polyethyleneimine-coated magnetite nanoparticles DOI10.1557/s43580-021-00153-7	MRS ADVANCES	0.13	6(39-40)	913-917	2022			
3	Tang, YD (Tang, Yundong) ; Zou, J (Zou, Jian) ; Flesch, RCC (Flesch, Rodolfo C. C.); Jin, T (Jin, Tao)	Backflow modeling in nanofluid infusion and analysis of its effects on heat induced damage during magnetic hyperthermia	APPLIED MATHEMATICAL MODELLING				2023			
4	Tang, YD (Tang, Yundong) ; Su, H (Su, Hang) ; Jin, T (Jin, Tao) ; Flesch, RCC (Flesch, Rodolfo Cesar Costa)	Adaptive PID Control Approach Considering Simulated Annealing Algorithm for Thermal Damage of Brain Tumor During Magnetic Hyperthermia	IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT				2024			
5	Lu, YW (Lu, Yawen) [1] ; Huang, CF (Huang, Chongfei) [1] ; Fu, WK (Fu, Wenkang) [1] ; Gao, L (Gao, Long) [1] ; Mi, NN (Mi, Ningning) [1] ; Ma, HD (Ma, Haidong) [1] ; Bai, MZ (Bai, Mingzhen) [1] ; Xia, ZL (Xia, Zhili) ; Zhang, XZ (Zhang, Xianzhuo) ; Tian, L (Tian, Liang)	Design of the distribution of iron oxide (Fe ₃ O ₄) nano-particle drug in realistic cholangiocarcinoma model and the simulation of temperature increase during magnetic induction hyperthermia	PHARMACOLOGICAL RESEARCH				2024			

2021	Iordana Aștefănoaei , Alexandru Stancu,	6) Thermo-fluid porosity-related effects in the magnetic hyperthermia	EUROPEAN PHYSICAL JOURNAL PLUS	3.752	136(12)		2021		2	2.5
	citata in 5 lucrari									
1	Ahmad, A (Ahmad, Ashfaq); Akbar, H (Akbar, Hassan) ; Zada, I (Zada, Imran); Anjum, F (Anjum, Faiza); Afzal, AM (Afzal, Amir Muhammad) ; Javed, S (Javed, Subhan); Muneeb, M (Muneeb, Muhammad); Ali, A (Ali, Asghar); Choi, JR (Choi, Jeong Ryeol)	Improvement of the Self-Controlled Hyperthermia Applications by Varying Gadolinium Doping in Lanthanum Strontium Manganite Nanoparticles	Molecules	4.6	28(23)		2023			
2	Tang, YD (Tang, Yundong); Su, H (Su, Hang); Jin, T (Jin, Tao); Flesch, RCC (Flesch, Rodolfo Cesar Costa)	Adaptive PID Control Approach Considering Simulated Annealing Algorithm for Thermal Damage of Brain Tumor During Magnetic Hyperthermia	IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT	5.9	72		2023			
3	Yundong Tang Jian Zou Rodolfo C.C.Flesch Tao Jin	Backflow modeling in nanofluid infusion and analysis of its effects on heat induced damage during magnetic hyperthermia	Applied Mathematical Modelling Volume 114, February 2023, Pages 583-600		114	583-600	2023			
4	Adeleh Kazemi Alamouti	Dynamic physiological and structural tissue parameters in bioheat models: Enhancing heat transfer realism for hyperthermia therapy	International Communications in Heat and Mass Transfer	6.4	175	111185	2026			

5	Jiang, Q (Jiang, Qian) ; Wang, ZK (Wang, Zhaokun) ; Ren, F (Ren, Feng); Wang, CL (Wang, Chenglei); Kefayati, G (Kefayati, Gholamreza); Kenjeres, S (Kenjeres, Sasa); Vafai, K (Vafai, Kambiz); Cui, XG (Cui, Xinguang) ; Liu, Y (Liu, Yang); Tang, H (Tang, Hui)	Optimizing MNP injection for magnetic hyperthermia treatment: A three-dimensional study	INTERNATIONAL JOURNAL OF THERMAL SCIENCES	5	227	DOI10.1016/j.ijthermalsci.2026.110889	2026			
2019	Astefanoaei, Iordana Gimaev Radel, Zverev, Vladimir, Stancu Alexandru	7) Modelling of working parameters of Gd and FeRh nanoparticles for magnetic hyperthermia	MATERIALS RESEARCH EXPRESS	1.449	6(12)		2019		4	2.5
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1	R. R. Gimaev, A. A. Vaulin, A. F. Gubkin & V. I. Zverev,	Peculiarities of Magnetic and Magnetocaloric Properties of Fe–Rh Alloys in the Range of Antiferromagnet–Ferromagnet Transition,	Physics of Metals and Metallography (2020)	0.877	121	823-850	2021			
2	Mylla C. Ferreira, Bruno Pimentel, Vivian Andrade, Vladimir Zverev, Radel R. Gimaev, Andrei S. Pomorov, Alexander Pyatakov, Yulia Alekhina, Aleksei Komlev, Liudmila Makarova, Nikolai Perov and Mario S. Reis,	Understanding the Dependence of Nanoparticles Magnetothermal Properties on Their Size for Hyperthermia Applications: A Case Study for La-Sr Manganites,	Nanomaterials, vol 11 (7)	5.076	11(7)		2021			

3	Ruksan Nadarajah,Shabbir Tahir, Joachim Landers,David Koch, Anna S. Semisalova, Jonas Wiemeler, Ayman El-Zoka, Se-Ho Kim, Detlef Utzat, Rolf Möller, Baptiste Gault, Heiko Wende, Michael Farle and Bilal Gökce,	Controlling the Oxidation of Magnetic and Electrically Conductive Solid-Solution Iron-Rhodium Nanoparticles Synthesized by Laser Ablation in Liquids	Nanomaterials, vol 10 (12)	5.076			2021			
4	Ruksan Nadarajah, Joachim Landers, Soma Salamon, David Koch, Shabbir Tahir, Carlos Doñate-Buendía, Benjamin Zingsem, Rafal E. Dunin-Borkowski, Wolfgang Donner, Michael Farle, Heiko Wende & Bilal Gökce,	Towards laser printing of magnetocaloric structures by inducing a magnetic phase transition in iron-rhodium nanoparticles, Source:	Scientific Reports, 11 (13719)	4.379			2021			
5	Ziogas, P (Ziogas, Panagiotis) ; Bourlinos, AB (Bourlinos, Athanasios B.) ; Chatzopoulou, P (Chatzopoulou, Polyxeni) ; Dimitrakopulos, GP (Dimitrakopulos, George P.) ; Kehagias, T (Kehagias, Thomas) ; Markou, A (Markou, Anastasios); Douvalis, AP (Douvalis, Alexios P.)	Intriguing Prospects of a Novel Magnetic Nanohybrid Material: Ferromagnetic FeRh Nanoparticles Grown on Nanodiamonds	METALS	2.695	12(8)		2022			

6	Yildirim, H (Yildirim, Huseyin)	Theoretical investigation of Fe-Rh binary nanoalloys: Chemical ordering and magnetic behavior	INTERNATIONAL JOURNAL OF MODERN PHYSICS B	1.404	36(03)		2022			
7	Sandeep NainNeeraj KumarNeeraj KumarBhupendra Kumar chudasamaPramod Kumar Avti	The SLP estimation of the nanoparticle systems using size-dependent magnetic properties for the magnetic hyperthermia therapy	Journal of Magnetism and Magnetic Materials 565(1):170219		565(1)	170219	2022			
8	Shabatina, TI (Shabatina, Tatyana I.) ; Vernaya, OI (Vernaya, Olga I.); Shimanovskiy, NL (Shimanovskiy, Nikolay L.) ; Melnikov, MY (Melnikov, Mikhail Ya.)	Metal and Metal Oxides Nanoparticles and Nanosystems in Anticancer and Antiviral Theragnostic Agents	PHARMACEUTICS				2023			
9	Merkel, DG; Sájerma, K; Lengyel, A	Laser irradiation effects in FeRh thin film	MATERIALS RESEARCH EXPRESS				2023			
10	Takhsha, M (Takhsha, Milad); Furlani, F (Furlani, Franco) ; Panseri, S (Panseri, Silvia) ; Casoli, F (Casoli, Francesca) ; Uhlir, V (Uhlir, Vojtech) ; Albertini, F (Albertini, Franca)	Magnetic Shape-Memory Heuslers Turn to Bio: Cytocompatibility of Ni-Mn-Ga Films and Biomedical Perspective	ACS APPLIED BIO MATERIALS				2023			
2020	Astefanoaei Iordana; Stancu Alexandru	8)Magnetic Nanoparticle Dosimetry in Hyperthermia Therapy	AIP Conference Proceedings indexat ISI	2218			2020	2	2	0.5

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1	Aamer, AS (Aamer, A. S.); Mahrous, SA (Mahrous, Samar A.); Ahmed, BA (Ahmed, Baraa A.)	Transient motion of a hydrophobic spherical particle in a Brinkman medium: A comparative analysis of cell models	INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW	3.1	119		2026			
2019	Iordana Aștefanoaei , Alexandru Stancu	9) A computational study of the bioheat transfer in magnetic hyperthermia cancer therapy	Journal of Applied Physics	2.546	125(19)			2	2	6.5
	citata in 13 lucrari									
1	da Silva, MLF (Ferreira da Silva, Mario Luis) da Costa, AOS (Souza da Costa, Andrea Oliveira) Huebner, R (Huebner, Rudolf)	Analysis of the temperature influence on thermophysical properties in the three-dimensional numerical modeling of heat transfer in human biological tissue in the presence of a cancerous tumor	BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING	1.232	38(4)		2021			
2	Dutta, J (Dutta, Jaideep) Kundu, B (Kundu, Balaram)	Hybrid analytical models to estimate non-equilibrium temperatures in live-tissues based on appropriate initial thermal-field and non-invasive therapeutic heating	JOURNAL OF APPLIED PHYSICS	2.546	129(10)		2021			
3	R.A. Rytov, Vasily A. Bautin, Nikolai A. Usov	Towards optimal thermal distributions in magnetic hyperthermia	Scientific Reports		12(1)	3023	2022			

4	Sugumaran, PJ; Yang, Y; (...); Ding, J	Influence of the Aspect Ratio of Iron Oxide Nanorods on Hysteresis-Loss-Mediated Magnetic Hyperthermia	ACS APPLIED BIO MATERIALS		4(6)	4809-4820	2021			
5	Caddy, G (Caddy, George) ; Stebbing, J (Stebbing, Justin) ; Wakefield, G (Wakefield, Gareth); Adair, M (Adair, Megan); Xu, XY (Xu, Xiao Yun)	Multiscale Modelling of Nanoparticle Distribution in a Realistic Tumour Geometry Following Local Injection	CANCERS DOI10.3390/cancers14235729	6.575			2022			
6	Hossain, S (Hossain, Shadeeb); Hossain, S (Hossain, Shamera)	Hyperthermia Using Magnetic Cobalt Ferrite Magnetoelectric Nanoparticles	IEEE TRANSACTIONS ON MAGNETICS	1.848	58(12)		2022			
7	Caddy, G (Caddy, George) ; Stebbing, J (Stebbing, Justin) ; Wakefield, G (Wakefield, Gareth) ; Xu, XY (Xu, Xiao Yun)	Modelling of Nanoparticle Distribution in a Spherical Tumour during and Following Local Injection	PHARMACEUTICS	6.528	14(8)		2022			
8	Tang, YD (Tang, Yun-Dong) ; Zou, J (Zou, Jian); Flesch, RCC (Flesch, Rodolfo C. C.) ; Jin, T (Jin, Tao)	Effect of injection strategy for nanofluid transport on thermal damage behavior inside biological tissue during magnetic hyperthermia	INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER	6.782	133		2022			

9	Lahiri, BB (Lahiri, B. B.); Khan, F (Khan, Fouzia) ; Mahendravada, S (Mahendravada, Srujana); Sathyanarayana, AT (Sathyanarayana, A. T.) ; Ranoo, S (Ranoo, Surojit); Nandy, M (Nandy, Manali) [1] ; Philip, J (Philip, John)	Magnetic hyperthermia in tissue-like media: Finite element simulation, experimental validation, parametric variations, and calibration studies	JOURNAL OF APPLIED PHYSICS			135(8)	2024			
10	Déjardin, JL (Dejardin, Jean-Louis) [1] ; Kachkachi, H (Kachkachi, Hamid) [1]	Heat Generation and Diffusion in an Assembly of Magnetic Nanoparticles: Application to Magnetic Hyperthermia	APPLIED SCIENCES-BASEL				2024			
11	Asghar, T (Asghar, Tanzeela); Naz, MY (Naz, Muhammad Yasin) ; Afzal, S (Afzal, Saba) ; Abbas, G (Abbas, Ghulam); Ibrahim, AA (Ibrahim, Ahmed Ahmed); Khan, Y (Khan, Yasin); Farooq, MU (Farooq, Muhammad Umar)	Finite element analysis of coating thickness effect over metal nanostructures for hyperthermia	AIP ADVANCES		14(2)		2024			
12	Mehta, M (Mehta, Mansi); Bhandari, A (Bhandari, Anupam)	Advancement in biomedical applications of ferrofluids	JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING		47(10)		2025			
13	Yang, PA (Yang, Ping-an) ; Han, YX (Han, Yixuan); Mo, CY (Mo, Chunyan); Luo, JF (Luo, Jiufei) ; Shou, MJ (Shou, Mengjie); Gong, XL (Gong, Xinglong); Zhou, ZH (Zhou, Zhihao)	A review and perspective of magnetic-controlled microbots for medical applications	CHEMICAL ENGINEERING JOURNAL		520		2025			

2017	Iordana AȘTEFĂNOAEI, Alexandru STANCU, Horia CHIRIAC	10) Thermal performance of Fe-Cr-Nb-B systems in magnetic hyperthermia	Journal of Applied Physics	2.176	121(10)	104701	2017	3	3	3.66667
citata in 11 lucrari:										
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			
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			
3	Shen, KM; Yan, YF; (...); Li, LX	Numerical simulation of the effect of injection sites arrangement on the thermal ablation in the magnetic fluid hyperthermia	Aug 1 2022 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 555				2022			
4	M.Soltani, Masoud H.H. Tehrani Farsha Moradi Kashkooli fMohsen Rezaeiana	Effects of magnetic nanoparticle diffusion on microwave ablation treatment: A numerical approach	JMMM	2.993	514(167196)		2020			
5	Y Tang, T Jin, RCC Flesch	Effect of mass transfer and diffusion of nanofluid on the thermal ablation of malignant cells during magnetic hyperthermia	Applied Mathematical Modeling https://doi.org/10.1016/j.apm.2019.11.007	2.841			2020			

6	Y Tang, T Jin, RCC Flesch, Y Gao	Effect of nanofluid distribution on therapeutic effect considering transient bio-tissue temperature during magnetic hyperthermia	JMMM	2.993			2021			
7	Murgulescu, I (Murgulescu, I) Ababei, G (Ababei, G.) Stoian, G (Stoian, G.) Danceanu, C (Danceanu, C.) Lupu, N (Lupu, N.) Chiriac, H (Chiriac, H.)	Fe-Cr-Nb-B magnetic nanoparticles prepared by arc discharge for hyperthermia	JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS	0.587	21 (11-12)	733-739	2019			
8	Hossain, S (Hossain, Shadeeb) ; Hossain, S (Hossain, Shamera)	Hyperthermia Using Magnetic Cobalt Ferrite Magnetoelectric Nanoparticles	IEEE TRANSACTIONS ON MAGNETICS	1.848	58(12)		2022			
9	Etminan, A (Etminan, Andisheh) ; Dahaghin, A (Dahaghin, Ali) ; Emadiyanrazavi, S (Emadiyanrazavi, Seyedhamidreza) ; Salimibani, M (Salimibani, Milad); Eivazzadeh-Keihan, R (Eivazzadeh-Keihan, Reza) ; Haghpanahi, M (Haghpanahi, Mohammad) ; Maleki, A (Maleki, Ali)	Simulation of heat transfer, mass transfer and tissue damage in magnetic nanoparticle hyperthermia with blood vessels	JOURNAL OF THERMAL BIOLOGY	3.189	110		2022			
10	Job, VM (Job, Victor M.); Gunakala, SR (Gunakala, Sreedhara Rao); Gorla, RSR (Gorla, Rama Subba Reddy) ; Makinde, OD (Makinde, O. D.); Basha, HT (Basha, H. Thameem)	Unsteady convective ferrohydrodynamic flow of MnZnFe ₂ O ₄ /FeCrNbB - EG hybrid nanofluid in a horizontal channel with porous fins and semi-circular heaters	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS		571		2023			

11	Tang, YD (Tang, Yundong) [1] ; Flesch, RCC (Flesch, Rodolfo C. C.) [2] ; Jin, T (Jin, Tao) [3]	Impact of different nanofluid injection models on thermal damage behavior during magnetic hyperthermia	JOURNAL OF APPLIED PHYSICS		138(12)		2025			
2017	lordana Aștefănoaei, Alexandru STANCU	11) Advanced thermo-mechanical analysis in the magnetic hyperthermia	Journal of Applied Physics	2.176	122(16)	164701	2017	2	2	4
citată în 8 lucrări:										
1	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			2019			
2	Nakonechna, OI (Nakonechna, O., I) Lotey, GS (Lotey, Gurmeet Singh) Tangra, AK (Tangra, Ankush Kumar) Singh, S (Singh, Sarbjit) Bodnaruk, AV (Bodnaruk, A., V) Zamorskyi, VO (Zamorskyi, V. O.) Belyavina, NN (Belyavina, N. N.) Sharay, IV (Sharay, I., V) Tovstolytkin, AI (Tovstolytkin, A., I)	Aging effects in NaFeO ₂ nanoparticles: Evolution of crystal structure and magnetic properties	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2.993	540		2021			

3	Boekelheide, Z (Boekelheide, Z.) Hunagund, S (Hunagund, S.) Hussein, ZA (Hussein, Z. A.) Miller, JT (Miller, Jackson T.) El-Gendy, AA (El-Gendy, A. A.) Hadimani, RL (Hadimani, R. L.)	Particle size-dependent magnetic hyperthermia in gadolinium silicide micro- and nano-particles from calorimetry and AC magnetometry	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2.993	519		2021			
4	Tang, YD (Tang, Yundong); Zou, J (Zou, Jian) ; Flesch, RCC (Flesch, Rodolfo C. C.) ; Jin, T (Jin, Tao)	Backflow modeling in nanofluid infusion and analysis of its effects on heat induced damage during magnetic hyperthermia	APPLIED MATHEMATICAL MODELLING		114(583)		2023			
5	Tang, YD (Tang, Yundong) ; Zou, J (Zou, Jian) ; Flesch, RCC (Flesch, Rodolfo C. C.) ; Jin, T (Jin, Tao)	Effect of bio-tissue deformation behavior due to intratumoral injection on magnetic hyperthermia	CHINESE PHYSICS B		32(3)		2023			
6	Lahiri, BB (Lahiri, B. B.) ; Khan, F (Khan, Fouzia) ; Mahendravada, S (Mahendravada, Srujana); Sathyanarayana, AT (Sathyanarayana, A. T.) ; Ranoo, S (Ranoo, Surojit); Nandy, M (Nandy, Manali) ; Philip, J (Philip, John)	Magnetic hyperthermia in tissue-like media: Finite element simulation, experimental validation, parametric variations, and calibration studies	JOURNAL OF APPLIED PHYSICS		135(8)		2024			

7	Jiang, Q (Jiang, Qian) ; Wang, ZK (Wang, Zhaokun) ; Ren, F (Ren, Feng); Wang, CL (Wang, Chenglei); Kefayati, G (Kefayati, Gholamreza); Kenjeres, S (Kenjeres, Sasa); Vafai, K (Vafai, Kambiz); Cui, XG (Cui, Xinguang) ; Liu, Y (Liu, Yang); Tang, H (Tang, Hui)	Optimizing MNP injection for magnetic hyperthermia treatment: A three-dimensional study	INTERNATIONAL JOURNAL OF THERMAL SCIENCES	5	227	DOI10.1016/j.ijthermalsci.2026.110889	2026			
8	Deepak KumarFaishal AnsariJitendra Singh	Computational analysis of nonlinear bioheat transfer equation of multilayered brain tissue with porosity during tumor thermal therapy	The European Physical Journal Plus	3	141(4)		2026			
2017	lordana AȘTEFĂNOAEI , Alexandru STANCU, Horia CHIRIAC	12) Numerical simulation of the temperature field in magnetic hyperthermia with Fe-Cr-Nb-B magnetic particles	The European Physical Journal Plus	2.249	132(2)	89	2017		3	3.000
	citata in 9 lucrari									
1	Y. Tang RCC Flesch T. Jin, Gao	Effect of nanofluid distribution on therapeutic effect considering transient bio-tissue temperature during magnetic hyperthermia	JMMM	2.993	516		2020			

2	Yundong Tang, Tao Jin, Rodolfo C. C. Flesch and Yueming Gao	Improvement of solenoid magnetic field and its influence on therapeutic effect during magnetic hyperthermia,	Journal of Physics D: Applied Physics, (2020)	2.829			2020			
3	Tang, YD (Tang, Yundong) Flesch, RCC (Flesch, Rodolfo C. C.) Jin, T (Jin, Tao) He, MH (He, Minhua)	Computational evaluation of malignant tissue apoptosis in magnetic hyperthermia considering intratumoral injection strategy	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	5.584	178		2021			
4	Tang, YD (Tang, Yun-Dong) ; Zou, J (Zou, Jian) ; Flesch, RCC (Flesch, Rodolfo C. C.); Jin, T (Jin, Tao)	Effect of injection strategy for nanofluid transport on thermal damage behavior inside biological tissue during magnetic hyperthermia DOI10.1016/j.icheatmasstransfer.2022.105979	INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER	6.782	133		2022			
5	Tang, YD (Tang, Yundong) Flesch, RCC (Flesch, Rodolfo C. C.) Jin, T (Jin, Tao) Gao, YM (Gao, Yueming) He, MH (He, Minhua)	Effect of nanoparticle shape on therapeutic temperature distribution during magnetic hyperthermia	JOURNAL OF PHYSICS D-APPLIED PHYSICS	3.207	54(16)		2021			
6	Tang, YD; Zou, J; Jin, T	Backflow modeling in nanofluid infusion and analysis of its effects on heat induced damage during magnetic hyperthermia	APPLIED MATHEMATICAL MODELLING	4.4		DOI10.1016/j.apm.2022.10.020	2023			

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			
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			
3	Yundong Tang, Rodolfo C. C. Flesch, and Tao Jin	Effect of mass transfer and diffusion of nanofluid on the thermal ablation of malignant cells during magnetic hyperthermia	Applied Mathematical Modeling https://doi.org/10.1016/j.apm.2019.11.007				2020			
4	Tang, YD (Tang, Yundong) Su, H (Su, Hang) Flesch, RCC (Flesch, Rodolfo C. C.) Jin, T (Jin, Tao)	An optimization method for magnetic hyperthermia considering Nelder-Mead algorithm	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2.993	545		2021			
5	Tang, YD (Tang, Yundong) Flesch, RCC (Flesch, Rodolfo C. C.) Jin, T (Jin, Tao) He, MH (He, Minhua)	Computational evaluation of malignant tissue apoptosis in magnetic hyperthermia considering intratumoral injection strategy	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	5.584	178		2021			

6	Tang, YD (Tang, Yundong) Flesch, RCC (Flesch, Rodolfo C. C.) Jin, T (Jin, Tao) Gao, YM (Gao, Yueming) He, MH (He, Minhua)	Effect of nanoparticle shape on therapeutic temperature distribution during magnetic hyperthermia	JOURNAL OF PHYSICS D-APPLIED PHYSICS	3.207	54(16)		2021			
7	Tang, YD (Tang, Yundong); Wang, YS (Wang, Yuesheng) ; Flesch, RCC (Flesch, Rodolfo C. C.) ; Jin, T (Jin, Tao)	Effect of porous heat transfer model on different equivalent thermal dose methods considering an experiment-based nanoparticle distribution during magnetic hyperthermia	JOURNAL OF PHYSICS D-APPLIED PHYSICS				2023			
8	Sandeep NainNeeraj KumarNeeraj KumarBhupendra Kumar chudasamaPramod Kumar Avti	The SLP estimation of the nanoparticle systems using size-dependent magnetic properties for the magnetic hyperthermia therapy	Journal of Magnetism and Magnetic Materials 565(1):170219		565(1)	170219	2022			
2017	Astefanoaei I; Stancu A and Chiriac H	14) Magnetic Hyperthermia with Fe-Cr- Nb - B Magnetic Particles	AIP Conference Proceedings -- Isi Conference Proceeding				2017		3	1
citata in 3 lucrari:										
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			
2	Etemadi, H (Etemadi, Hossein) ; Plieger, PG (Plieger, Paul G.)	Magnetic Fluid Hyperthermia Based on Magnetic Nanoparticles: Physical Characteristics, Historical Perspective, Clinical Trials, Technological Challenges, and	ADVANCED THERAPEUTICS 3 (11)	5.003	3(11)		2020			

3	Shabatina, TI (Shabatina, Tatyana I.) ; Vernaya, OI (Vernaya, Olga I.); Shimanovskiy, NL (Shimanovskiy, Nikolay L.) ; Melnikov, MY (Melnikov, Mikhail Ya.)	Metal and Metal Oxides Nanoparticles and Nanosystems in Anticancer and Antiviral Theragnostic Agents	PHARMACEUTICS	5.5	15(4)		2023			
2017	Iordana Aștefănoaei, Alexandru STANCU	15) A temperature analysis in magnetic hyperthermia	AIP Conference Proceedings -- Isi Conference Proceeding					2	2	1
	citata in 2 lucrari									
1	Çiğdem E. Demirci Dönmez*, Çiğdem E. Demirci Dönmez Palash K. MannaRachel, Nickel Selçuk Aktürk, Johan van Lierop*,	Comparative heating efficiency of cobalt-, manganese-, and nickel-ferrite nanoparticles for a hyperthermia agent in biomedicines	ACS Appl. Mater. Interfaces 2019	8.456						
2	Jyoti Prasad borah Molongnenla Jamir Molongnenla JamirChandan BorgohainChandan Borgohain	Influence of structure and magnetic properties of surface modified nanoparticles for hyperthermia application	Physica B Condensed Matter 648(Suppl 1)			DOI: 10.1016/j.physb .2022.414405	2022			
2016	Iordana AȘTEFĂNOAEI, Ioan DUMITRU, Horia CHIRIAC, Alexandru STANCU	16) Thermofluid Analysis in Magnetic Hyperthermia Using Low Curie Temperature Particles	IEEE Transactions on Magnetics	1.243	52(7)	p04	2016	4	4	7
citată în 28 lucrări:										
1	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, 2017	3.046			2017			

2	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			
3	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			
4	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			
5	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			
6	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			
7	Wenta Wang Xiaoqia FanJinjing Qiu Malik Muhamma Umair Benzhi Ju Shufen Zhang Bingtao Tang	Extracorporeal magnetic thermotherapy materials for self-controlled temperature through phase transition	Chemical Engineering Journal	8.355	358(2)	1279-1286		2019			

8	Yun-Dong TangTao JinRodolfo C.C. FleschHai-Yan Jiang	Simultaneous Optimization of Injection Dose and Location for Magnetic Hyperthermia Using Metaheuristic Algorithms	IEEE Trans. Magn	1.751			2020			
9	Yundong Tang, Tao Jin, Rodolfo C. C. Flesch and Yueming Gao	Improvement of solenoid magnetic field and its influence on therapeutic effect during magnetic hyperthermia	Journal of Physics D: Applied Physics	3.207			2020			
10	YundongTang, TaoJin, Rodolfo C.C.Flesch	Effect of mass transfer and diffusion of nanofluid on the thermal ablation of malignant cells during magnetic hyperthermia	Applied Mathematical Modeling https://doi.org/10.1016/j.apm.2019.11.007	5.129			2020			
11	M Sefidgar, E Bashooki, P Shojaee -	Numerical simulation of the effect of necrosis area in systemic delivery of magnetic nanoparticles in hyperthermia cancer treatment	Journal of Thermal Biology, 2020 - Elsevier	2.902			2020			
12	Tang, YD (Tang, Yundong) Su, H (Su, Hang) Flesch, RCC (Flesch, Rodolfo C. C.) Jin, T (Jin, Tao)	An optimization method for magnetic hyperthermia considering Nelder-Mead algorithm	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2.993			2021			

13	Tang, YD (Tang, Yundong) Flesch, RCC (Flesch, Rodolfo C. C.) Jin, T (Jin, Tao) Gao, YM (Gao, Yueming) He, MH (He, Minhua)	Effect of nanoparticle shape on therapeutic temperature distribution during magnetic hyperthermia	JOURNAL OF PHYSICS D-APPLIED PHYSICS	3.207	54(16)		2021			
14	Shen, KM; Yan, YF; (...); Li, LX	Numerical simulation of the effect of injection sites arrangement on the thermal ablation in the magnetic fluid hyperthermia	Aug 1 2022 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 555				2022			
15	Roustaei, M and Servatkah, M	Effect of mass transfer and diffusion on temperature distribution during magnetic hyperthermia	Apr 15 2022 PHYSICA B-CONDENSED MATTER 631				2022			
16	Ding, SW (Ding, Shuai-Wen); Wu, CW (Wu, Cheng-Wei) ; Yu, XG (Yu, Xiao-Gang) ; Dai, C (Dai, Chao); Zhang, W (Zhang, Wei) ; Gong, JP (Gong, Jian-Po)	Simulating Evaluation Method on Heating Performances of Magnetic Nanoparticles with Temperature-Dependent Heating Efficiencies in Tumor Hyperthermia	Magnetochemistry	3.336	8(6)		2022			
17	Lang, HD (Lang, Hans-Dieter); Xu, GY (Xu, Gengyu); Sarris, CD (Sarris, Costas D.)	A Wireless Power Transfer Route to Magnetically Mediated Hyperthermia Lang, HD; Xu, GY and Sarris, CD 11th European Conference on Antennas and Propagation (EUCAP) 2017 2017 11TH EUROPEAN CONFERENCE ON ANTENNAS AND PROPAGATION (EUCAP) , pp.3705-3709	Isi proceeding				2017			

18	Sefidgar, M (Sefidgar, Mostafa); Alinezhad, L (Alinezhad, Lida) ; Bashooki, E (Bashooki, Ehsan) ; Shojaee, P (Shojaee, Pejman)	Effect of different dynamic microvasculature in a solid tumor with the necrotic region during magnetic hyperthermia: An in-silico study	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	5.431	189					
19	Tang, YD (Tang, Yundong) ; Su, H (Su, Hang) ; Jin, T (Jin, Tao) ; Flesch, RCC (Flesch, Rodolfo Cesar Costa)	Adaptive PID Control Approach Considering Simulated Annealing Algorithm for Thermal Damage of Brain Tumor During Magnetic Hyperthermia	IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT		2	DOI10.1109/TI M.2023.32420 11	2023			
20	Tang, YD (Tang, Yundong) ; Ding, YB (Ding, Yubin) ; Jin, T (Jin, Tao) ; Flesch, RCC (Flesch, Rodolfo Cesar Costa)	Improvement for Magnetic Field Uniformity of Helmholtz Coils and its Influence on Magnetic Hyperthermia	IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT			10.1109/TIM.20 23.3242011	2023			
21	Etminan, A (Etminan, Andisheh) ; Salimibani, M (Salimibani, Milad) ; Dahaghin, A (Dahaghin, Ali) ; Haghpanahi, M (Haghpanahi, Mohammad) ; Maleki, A (Maleki, Ali)	FEM thermal assessment of a 3-D irregular tumor with capillaries in magnetic nanoparticle hyperthermia via dissimilar injection points	COMPUTERS IN BIOLOGY AND MEDICINE	7		DOI10.1016/j.co mpbiomed.2023 .106771	2023			

22	Tang, YD (Tang, Yundong) ; Chen, M (Chen, Ming) ; Flesch, RCC (Flesch, Rodolfo C. C.) ; Jin, T (Jin, Tao)	Extraction method of nanoparticles concentration distribution from magnetic particle image and its application in thermal damage of magnetic hyperthermia	CHINESE PHYSICS B		32(9)	10.1088/1674-1056/acde50				
23	Niraula, G (Niraula, Gopal) ; Wu, CW (Wu, Chengwei) ; Yu, XG (Yu, Xiaogang) ; Malik, S (Malik, Sonia) ; Verma, DS (Verma, Dalip Singh) ; Yang, RP (Yang, Rengpeng) ; Zhao, BX (Zhao, Boxiong) ; Ding, SW (Ding, Shuaiwen); Zhang, W (Zhang, Wei) ; Sharma, SK (Sharma, Surender Kumar)	The Curie temperature: a key playmaker in self-regulated temperature hyperthermia	JOURNAL OF MATERIALS CHEMISTRY B		12(2)	DOI10.1039/d3tb01437a	2023			
24	Pascual, A (Pascual, Alberto) ; Acero, J (Acero, Jesus) ; Narvaez, A (Narvaez, Alexis) ; Carretero, C (Carretero, Claudio)	Study of magnetic nonlinearities in materials with low Curie temperature applied to domestic induction heating	INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS	1.5	DOI10.3233/JAE-230		2023			
25	Lu, YW (Lu, Yawen) ; Huang, CF (Huang, Chongfei) ; Fu, WK (Fu, Wenkang) ; Gao, L (Gao, Long) ; Mi, NN (Mi, Ningning) ; Ma, HD (Ma, Haidong) ; Bai, MZ (Bai, Mingzhen) ; Xia, ZL (Xia, Zhili) ; Zhang, XZ (Zhang, Xianzhuo) ; Tian, L (Tian, Liang)	Design of the distribution of iron oxide (Fe ₃ O ₄) nano-particle drug in realistic cholangiocarcinoma model and the simulation of temperature increase during magnetic induction hyperthermia	PHARMACOLOGICAL RESEARCH			DOI10.1016/j.phrs.2024.107333	2024			

26	Jiang, Q (Jiang, Qian) ; Ren, F (Ren, Feng); Wang, CL (Wang, Chenglei) ; Wang, ZK (Wang, Zhaokun) ; Kefayati, G (Kefayati, Gholamreza) ; Kenjeres, S (Kenjeres, Sasa) ; Vafai, K (Vafai, Kambiz) ; Cui, XG (Cui, Xinguang) ; Liu, Y (Liu, Yang) ; Tang, H (Tang, Hui)	Multiphysics simulation of tumor ablation in magnetic hyperthermia treatment	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER		245		2025			
27	Tang, RJ (Tang, Rongji); Xu, GY (Xu, Guiying); Ponnore, JJ (Ponnore, Joffin Jose); Alqahtani, S (Alqahtani, Sultan); Anqi, AE (Anqi, Ali E.); Li, F (Li, Feng)	Innovative multiphysics heat transfer modeling of a non-uniform mini-channel with Fe3O4 nanofluid under a dipole magnetic field	RESULTS IN ENGINEERING	7.9			2025			
28	Xu, B (Xu, Bin) ; Wu, YM (Wu, Ye-Ming) ; Cheng, YF (Cheng, Yi-Fei) ; Dong, L (Dong, Lei); Ding, SW (Ding, Shuai-Wen); Chen, SR (Chen, Sheng-Rong); Chen, BD (Chen, Bin-Da) ; Yang, RP (Yang, Ren-Peng) ; Zhang, WH (Zhang, Wei-Hua) ; Wang, YJ (Wang, Ya-Jie) ; Mao, WP (Mao, Wei-Pu) ; Shi, F (Shi, Fan) ; Jin, ZC (Jin, Zhi-Cheng); Chen, JJ (Chen, Jian Jian) ; Qiao, EQ (Qiao, En-Qi) ; Wang, YQ (Wang, Yu-Qing) , Li, JZ (Li, Jin-Ze) Zeg, P (Zeng, Peng) ; Wu, CW (Wu, Cheng-Wei); Zhang, W (Zhang, Wei) ; Xie, JB (Xie, Jin-Bing) ; Lu, J (Lu, Jian); Teng, GJ (Teng, Gao-Jun)	A Novel Self-Regulated, Non-Directional Magnetic Thermos-Brachytherapy 125I Seed Enhances Anticancer Efficacy by Rescuing Immune Escape	Advanced Science	14.1						

2016	M Pinto, M Pimpinella, M Quini, M D'Arienzo, I Astefanoaei, S Loreti, AS Guerra	17) 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	6	2.5
citată în 15 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			
2	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			
3	Michael J Lawless, Lianna Dimaso Benjamin Palmer John MickaLarry A DeWerd	Monte Carlo and 60 Co based kilovoltage x-ray dosimetry methods	Med Physics DOI: 10.1002/mp.13213	3.177			2018			
4	Robin Hill Brendan Healy Duncan Butler David Odgers 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	1.43			2018			

5	J Renaud, H Palmans, A Sarfehnia and J Seuntjens	Absorbed dose calorimetry	Physics in Medicine & Biology	3.609	65(5)		2020			
6	James Renaud, Arman Sarfehnia, Julien Bancheri and Jan Seuntjens	Absolute dosimetry of a 1.5 T MR-guided accelerator-based high-energy photon beam in water and solid phantoms using Aarrow	Medical Physics	4.071			2020			
7	Rosado Salata	Determination of the absorbed dose to water for medium-energy x-ray beams using Fricke dosimetry	Medical Physics	4.071			2020			
8	Czarnecki, D (Czarnecki, Damian) Zink, K (Zink, Klemens) Pimpinella, M (Pimpinella, Maria) Borbinha, J (Borbinha, Jorge) Teles, P (Teles, Pedro) Pinto, M (Pinto, Massimo)	Monte Carlo calculation of quality correction factors based on air kerma and absorbed dose to water in medium energy x-ray beams	PHYSICS IN MEDICINE AND BIOLOGY	3.609	65(24)		2020			

9	Christensen, JB (Christensen, Jeppe Brage) Vestergaard, A (Vestergaard, Anne) Andersen, CE (Andersen, Claus E.)	Using a small-core graphite calorimeter for dosimetry and scintillator quenching corrections in a therapeutic proton beam	PHYSICS IN MEDICINE AND BIOLOGY	3.609	65(21)		2020			
10	Bancheri, J (Bancheri, Julien) Ketelhut, S (Ketelhut, Steffen) Burmann, L (Buermann, Ludwig) Seuntjens, J (Seuntjens, Jan)	Monte Carlo and water calorimetric determination of kilovoltage beam radiotherapy ionization chamber correction factors	PHYSICS IN MEDICINE AND BIOLOGY	3.609	65(10)		2020			
11	Verhaegen, F (Verhaegen, Frank) ; Bütterworth, KT (Butterworth, Karl T.) ; Chalmers, AJ (Chalmers, Anthony J.) ; Coppes, RP (Coppes, Rob P.) ; de Ruyscher, D (de Ruyscher, Dirk) ; Dobiasch, S (Dobiasch, Sophie) ; Fenwick, JD (Fenwick, John D.) ; Granton, P (Granton, Paul M.) ; Högl, M (Högl, Michael)	Roadmap for precision preclinical x-ray radiation studies	PHYSICS IN MEDICINE AND BIOLOGY	DOI10.1088/1361-6560/acf45			2023			

12	Borromeo, I (Borromeo, I.) ; Mentana, A (Mentana, A.) ; Baiocco, G (Baiocco, G.) ; Beninati, S (Beninati, S.) ; Boretti, V (Boretti, V.); Cappadozzi, G (Cappadozzi, G.) ; Di Fino, L (Di Fino, L.) [8] ; Facoetti, A (Facoetti, A.) ; Lunati, L (Lunati, L.) ; Paci, M (Paci, M.) ; Pinto, M (Pinto, M.) ; Pullia, M (Pullia, M.) ; Rizzo, A (Rizzo, A.) ; Amantini, GS (Amantini, G. Santi) ; Toma, S (Toma, S.) ; Narici, L (Narici, L.)	Activation of the visual system by space radiation: A novel study on Ca2+ signalling in ex-vivo rabbit eyes exposed to visible light, X-rays and high-energy protons	Life sciences in space research				2024			
13	Gomez-Fernández, N (Gomez- Fernandez, Nicolas); Deus-Abreu, J (Deus-Abreu, Jorge); Maughan, D (Maughan, David) ; Gomez, F (Gomez, Faustino) ; González- Castaño, DM (Gonzalez-Castano, Diego M.)	A portable graphite calorimeter for onsite reference dosimetry and beam quality correction factor determination	JOURNAL OF APPLIED CLINICAL MEDICAL PHYSICS	26(12)			2025			
14	Toma, S (Toma, Susy); Pinto, M (Pinto, Massimo); Arpino, F (Arpino, Fausto); Capriglione, D (Capriglione, Domenico)	Advancing metrological performance of a calorimetric absorbed dose-to- water primary standard for medium energy X-ray beams	MEASUREMENT	259			2026			
15	Kim, YH (Kim, Yun Ho) ; Yi, CY (Yi, Chul-Young) ; Kim, IJ (Kim, In Jung) ; Park, JI (Park, Jong In) ; Seong, YM (Seong, Young Min) ; Jung, S (Jung, Seongmoon)	Studies on measurement standard for absorbed dose to water in kV X- ray beams	RADIATION PHYSICS AND CHEMISTRY		245		2026			

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	4	5.75
citată în 23 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			
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			
3	A. Yu. Zubarev, A. F. Abu-Bakr, L. Yu. Isakova, S. V. Bulycheva	Magnetic Hyperthermia in a system of Magnetically interacting particles	Magnetohydro-dynamics	0.588	51(4)	647-654	2015			
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			
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			

6	Y Tang, T Jin, RCC Flesch	Effect of mass transfer and diffusion of nanofluid on the thermal ablation of malignant cells during magnetic hyperthermia	Applied Mathematical Modeling https://doi.org/10.1016/j.apm.2019.11.007	2.841			2020			
7	Soltani, M (Soltani, M.) Tehrani, MHH (Tehrani, Masoud H. H.) Kashkooli, FM (Kashkooli, Farshad Moradi) Rezaeian, M (Rezaeian, Mohsen)	Effects of magnetic nanoparticle diffusion on microwave ablation treatment: A numerical approach	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2.993	514		2020			
8	Y Tang, L Mu, Y He	Numerical simulation of fluid and heat transfer in biological tissue containing the exact structure of microvascular network using immersed boundary method	Fluid Dynamics & Materials Processing, 2020				2020			
9	Tang, YD (Tang, Yundong) Flesch, RCC (Flesch, Rodolfo C. C.) Jin, T (Jin, Tao) He, MH (He, Minhua)	Computational evaluation of malignant tissue apoptosis in magnetic hyperthermia considering intratumoral injection strategy	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	5.584	178		2021			
10	Tang, YD (Tang, Yundong) Flesch, RCC (Flesch, Rodolfo C. C.) Jin, T (Jin, Tao) Gao, YM (Gao, Yueming) He, MH (He, Minhua)	Effect of nanoparticle shape on therapeutic temperature distribution during magnetic hyperthermia	JOURNAL OF PHYSICS D-APPLIED PHYSICS	3.207	54(16)		2021			

11	Gunakala, SR (Gunakala, Sreedhara Rao) Job, VM (Job, Victor M.) Sakhamuri, S (Sakhamuri, Sateesh) Murthy, PVSN (Murthy, P. V. S. N.) Chowdary, BV (Chowdary, B., V)	Numerical study of blood perfusion and nanoparticle transport in prostate and muscle tumours during intravenous magnetic hyperthermia	ALEXANDRIA ENGINEERING JOURNAL	3.732	60(1)	859-876	2021			
12	Roustaei, M and Servatkah, M	Effect of mass transfer and diffusion on temperature distribution during magnetic hyperthermia	Apr 15 2022 PHYSICA B-CONDENSED MATTER 631				2022			
13	Tang, YD; Zou, J; (...); He, MH	Thermal apoptosis analysis considering injection behavior optimization and mass diffusion during magnetic hyperthermia	Dec 1 2021 CHINESE PHYSICS B 31 (1)		31(1)		2021			
14	Tang, YD (Tang, Yun-Dong) ; Zou, J (Zou, Jian) ; Flesch, RCC (Flesch, Rodolfo C. C.); Jin, T (Jin, Tao)	Effect of injection strategy for nanofluid transport on thermal damage behavior inside biological tissue during magnetic hyperthermia DOI10.1016/j.icheatmasstransfer.2022.105979	INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER	6.782	133		2022			
15	Tang, YD (Tang, Yundong) ; Zou, J (Zou, Jian) ; Flesch, RCC (Flesch, Rodolfo C. C.) ; Jin, T (Jin, Tao)	Backflow modeling in nanofluid infusion and analysis of its effects on heat induced damage during magnetic hyperthermia	APPLIED MATHEMATICAL MODELLING	4.4	14()	DOI10.1016/j.apm.2022.10.020	2023			

16	Tang, YD (Tang, Yundong); Zou, J (Zou, Jian) ; Flesch, RCC (Flesch, Rodolfo C. C.) ; Jin, T (Jin, Tao)	Effect of bio-tissue deformation behavior due to intratumoral injection on magnetic hyperthermia	CHINESE PHYSICS B	1.5	38(3)	DOI10.1088/1674-1056/ac744c	2023			
17	Etminan, A (Etminan, Andisheh); Salimibani, M (Salimibani, Milad); Dahaghin, A (Dahaghin, Ali); Haghpanahi, M (Haghpanahi, Mohammad) ; Maleki, A (Maleki, Ali)	FEM thermal assessment of a 3-D irregular tumor with capillaries in magnetic nanoparticle hyperthermia via dissimilar injection points	COMPUTERS IN BIOLOGY AND MEDICINE	7	157	DOI10.1016/j.compbimed.2023.106771	2023			
18	Tang, YD (Tang, Yundong) ; Chen, M (Chen, Ming); Flesch, RCC (Flesch, Rodolfo C. C.) ; Jin, T (Jin, Tao)	Extraction method of nanoparticles concentration distribution from magnetic particle image and its application in thermal damage of magnetic hyperthermia	CHINESE PHYSICS B	1.5	32(8)	DOI10.1088/1674-1056/acde50	2023			
19	Li, J (Li, Jing) ; Ye, YY (Ye, Yanyong) ; Lin, ZX (Lin, Zixin); Wang, Z (Wang, Zhe) ; Chen, YX (Chen, Yuxun); Li, G (Li, Gang) ; Ouyang, Z (Ouyang, Zhi) ; Li, J (Li, Jing)	Application of a new self-regulating temperature magnetic material Fe83Zr10B7 in magnetic induction hyperthermia	INTERNATIONAL JOURNAL OF HYPERTHERMIA	3	40(1)	DOI10.1080/02656736.2023.2211269	2023			
20	Fakhradini, SS (Fakhradini, Soheil S.) ; Mosharaf-Dehkordi, M (Mosharaf-Dehkordi, Mehdi) ; Ahmadikia, H (Ahmadikia, Hossein)	Improved liver cancer hyperthermia treatment and optimized microwave antenna power with magnetic nanoparticles	HEAT AND MASS TRANSFER	2	60(7)	DOI10.1007/s00231-024-03489-6	2023			

21	Fakhradini, SS (Fakhradini, Soheil S.) ; Mosharaf-Dehkordi, M (Mosharaf-Dehkordi, Mehdi); Ahmadikia, H (Ahmadikia, Hossein)	A numerical study on optimization of microwave antenna power for liver cancer therapy enhanced with hybrid magnetic nanoparticles	JOURNAL OF THERMAL BIOLOGY	2.9	129	104117	2025			
22	Singh, A (Singh, Amritpal); Singh, H (Singh, Harpreet); Kumar, N (Kumar, Neeraj); Shadloo, MS (Safdari Shadloo, Mostafa)	Estimation of the effect of blood vessels on magnetic hyperthermia therapy of liver tumors using patient-specific anatomical models	PHYSICS OF FLUIDS	4.3	37(9)		2025			
23	Tang, YD (Tang, Yundong); Flesch, RCC (Flesch, Rodolfo C. C.); Jin, T (Jin, Tao)	Impact of different nanofluid injection models on thermal damage behavior during magnetic hyperthermia	JOURNAL OF APPLIED PHYSICS	2.5	138(12)		2025			
2014	Iordana AȘTEFĂNOAEI, Ioan DUMITRU, Alexandru STANCU , Horia CHIRIAC	19) 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)		2014	4	4	1.75

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1	CC. Cheng, JF Kiang	Efficacy of Magnetic and Capacitive Hyperthermia on Hepatocellular Carcinoma	Progress in Electromagnetic Research M	0.34	64	181-192	2018			
2	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			

3	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			
4	Chien-Chang ChenJean-Fu Kiang	Electroquasistatic model of capacitive hyperthermia affected by heat convection	Progress In Electromagnetics Research C	0.59	89	61-74	2019			
5	Lang, HD; Xu, GY and Sarris, CD	A Wireless Power Transfer Route to Magnetically Mediated Hyperthermia	11th European Conference on Antennas and Propagation (EUCAP) 2017 2017 11TH EUROPEAN	Isi Proceeding			2017			
6	Yundong Tang, Jian Zou, Rodolfo C. C. Flesch and Tao Jin	Effect of bio-tissue deformation behavior due to intratumoral injection on magnetic hyperthermia	Chinesse Physics B	2			2022			
7	Pascual, A (Pascual, Alberto) ; Acero, J (Acero, Jesus) ; Narvaez, A (Narvaez, Alexis) ; Carretero, C (Carretero, Claudio)	Study of magnetic nonlinearities in materials with low Curie temperature applied to domestic induction heating	INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS	0.7			2024			
2014	Iordana AȘTEFĂNOAEI, Ioan DUMITRU, Alexandru STANCU , Horia CHIRIAC	20) Controlling Temperature in Magnetic Hyperthermia with low Curie Temperature Particles	Journal of Applied Physics	2.183	115(17)	17B531	2014	4	4	6
citată în 24 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			

2	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			
3	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			
4	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	9	139-13937	2017			
5	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			
6	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			

7	Da-Ae Lee, Hong sub 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			
8	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			
9	Y. Tang RCC Flesch T. Jin	Effect of nanofluid distribution on therapeutic effect considering transient bio-tissue temperature during magnetic hyperthermia	JMMM		517		2020			
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			2019			
11	Sezer, N (Sezer, Nurettin) Ari, I (Ari, Ibrahim) Bicer, Y (Bicer, Yusuf) Koc, M (Koc, Muammer)	Superparamagnetic nanoarchitectures: Multimodal functionalities and applications	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2.993	538		2021			

12	Nadarajah, R (Nadarajah, Ruksan) Landers, J (Landers, Joachim) Salamon, S (Salamon, Soma) Koch, D (Koch, David) Tahir, S (Tahir, Shabbir) Donate-Buendia, C (Donate-Buendia, Carlos) Zingsem, B (Zingsem, Benjamin) Dunin-Borkowski, RE (Dunin-Borkowski, Rafal E.) Donner, W (Donner, Wolfgang) Farle, M (Farle, Michael) Wende, H (Wende, Heiko) Gokce, B (Goekce, Bilal)	Towards laser printing of magnetocaloric structures by inducing a magnetic phase transition in iron-rhodium nanoparticles	Scientific Reports	4.38	11(1)		2021			
13	Tang, YD (Tang, Yundong) Jin, T (Jin, Tao) Flesch, RCC (Flesch, Rodolfo C. C.) Gao, YM (Gao, Yueming) He, MH (He, Minghua)	Effect of nanofluid distribution on therapeutic effect considering transient bio-tissue temperature during magnetic hyperthermia	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2.993	517		2021			

14	Nadarajah, R (Nadarajah, Ruksan) Tahir, S (Tahir, Shabbir) Landers, J (Landers, Joachim) Koch, D (Koch, David) Semisalova, AS (Semisalova, Anna S.) Wiemeler, J (Wiemeler, Jonas) El-Zoka, A (El-Zoka, Ayman) Kim, SH (Kim, Se-Ho) Utzat, D (Utzat, Detlef) Moller, R (Moeller, Rolf) Gault, B (Gault, Baptiste) Wende, H (Wende, Heiko) Farle, M (Farle, Michael) Gokce, B (Goekce, Bilal)	Controlling the Oxidation of Magnetic and Electrically Conductive Solid-Solution Iron-Rhodium Nanoparticles Synthesized by Laser Ablation in Liquids	NANOMATERIALS	5.076	10(12)		2020			
15	Mostafa Sefidgar Lida Alinezhad Ehsan BashookiPejman Shojaee Pejman Shojaee	Effect of different dynamic microvasculature in a solid tumor with the necrotic region during magnetic hyperthermia: An in-silico study	International Journal of Heat and Mass Transfer	5.431	189		2022			
16	Nahar, A (Nahar, A.); Maria, KH (Maria, Kazi Haniun) ; Liba, SI (Liba, S., I); Anwaruzzaman, M (Anwaruzzaman, Md); Khan, MNI (Khan, M. N., I); Islam, A (Islam, A.) ; Choudhury, S (Choudhury, Shamima); Hoque, SM (Hoque, S. M.)	Surface-modified CoFe2O4 nanoparticles using Folate-Chitosan for cytotoxicity Studies, hyperthermia applications and Positive/Negative contrast of MRI	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	3.097	554		2022			

17	Ding, SW (Ding, Shuai-Wen); Wu, CW (Wu, Cheng-Wei) ; Yu, XG (Yu, Xiao-Gang) ; Dai, C (Dai, Chao); Zhang, W (Zhang, Wei) ; Gong, JP (Gong, Jian-Po)	Simulating Evaluation Method on Heating Performances of Magnetic Nanoparticles with Temperature-Dependent Heating Efficiencies in Tumor Hyperthermia	Magnetochemistry	3.336	8(6)		2022			
18	Merkel, DG (Merkel, Daniel Geza); Hegedus, G (Hegedus, Gergo) ; Gracheva, M (Gracheva, Maria) ; Deak, A (Deak, Andras); Illes, L (Illes, Levente) ; Nemeth, A (Nemeth, Attila); Maccari, F (Maccari, Fernando) ; Radulov, I (Radulov, Iliya) ; Major, M (Major, Marton) ; Chumakov, AI (Chumakov, Aleksandr, I) ; Bessas, D (Bessas, Dimitrios); Nagy, DL (Nagy, Denes Lajos) ; Zolnai, Z (Zolnai, Zsolt) ; Graning, S (Graning, Sara); Sajerman, K (Sajerman, Klara) ; Szilagyi, E (Szilagyi, Edit) ; Lengyel, A (Lengyel, Attila)	A Three-Dimensional Analysis of Magnetic Nanopattern Formation in FeRh Thin Films on MgO Substrates: Implications for Spintronic Devices	ACS applied nanomaterials	6.14	5(4)	5516-5526	2022			
19	Ge, XL (Ge, Xinliang) ; Li, H (Li, Huan) ; Zheng, H (Zheng, Hui) ; Zheng, P (Zheng, Peng); Zheng, L (Zheng, Liang) ; Zhang, Y (Zhang, Yang)	Electromagnetic Performance of NiMgCuZn Ferrite for Hyperthermia Application in Cancer Treatment	ACS OMEGA	3.7	8(19)		2023			

20	Niraula, G (Niraula, Gopal) ; Wu, CW (Wu, Chengwei) ; Yu, XG (Yu, Xiaogang) ; Malik, S (Malik, Sonia) ; Verma, DS (Verma, Dalip Singh) ; Yang, RP (Yang, Rengpeng) [2] ; Zhao, BX (Zhao, Boxiong); Ding, SW (Ding, Shuaiwen) ; Zhang, W (Zhang, Wei) ; Sharma, SK (Sharma, Surender Kumar)	The Curie temperature: a key playmaker in self-regulated temperature hyperthermia	JOURNAL OF MATERIALS CHEMISTRY B		2(2)	DOI10.1039/d3tb01437a	2023			
21	Ahmad, A; Akbar, H; Choi, JR	Improvement of the Self-Controlled Hyperthermia Applications by Varying Gadolinium Doping in Lanthanum Strontium Manganite Nanoparticles	MOLECULES	4.2	8(23)		2023			
22	Andreozzi, A (Andreozzi, A.) ; Brunese, L (Brunese, L.) ; Cafarchio, A (Cafarchio, A.) ; Netti, P (Netti, P.) ; Vanoli, GP (Vanoli, G. P.)	Effects of magnetic nanoparticle distribution in cancer therapy through hyperthermia	INTERNATIONAL JOURNAL OF THERMAL SCIENCES			DOI10.1016/j.ijthermalsci.2024.109428	2024			
23	Rahman, MM (Rahman, Md Mostafezur); Ding, SW (Ding, Shuai-Wen); Kumar, M (Kumar, Mohanraj) ; Zhang, W (Zhang, Wei) ; Chang, JH (Chang, Jih-Hsing)	Simulation-based evaluation of temperature-dependent heating performance of Zn-Mn-Al ferrite nanoparticles for tumor hyperthermia	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	3	636		2025			
24	Tang, YD (Tang, Yundong) ; Flesch, RCC (Flesch, Rodolfo C. C.); Jin, T (Jin, Tao)	Impact of different nanofluid injection models on thermal damage behavior during magnetic hyperthermia	JOURNAL OF APPLIED PHYSICS		138(12)		2025			

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	49(9)		2013			
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			
3	T Sander	Air kerma and absorbed dose standards for reference dosimetry in brachytherapy	British Journal of Radiology	1.533		87(1041)	2014			
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	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			
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			

7	Bryan R. Muir, Claudiu D. Cojocaru, Malcolm R. McEwen and Carl K. Ross, 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			2017			
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			
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			
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			
11	J Renaud, H Palmans, A Sarfehnia and J Seuntjens	Absorbed dose calorimetry	Physics in Medicine & Biology	3.609	65(5)		2020			
12	James Renaud, Arman Sarfehnia, Julien Bancheri and Jan Seuntjens	Absolute dosimetry of a 1.5 T MR-guided accelerator-based high-energy photon beam in water and solid phantoms using Aerrow	Medical Physics	4.071			2020			
2011	Iordana AȘTEFĂNOAEI, Ioan DUMITRU, Alexandru STANCU	23) Induced Thermal Stresses in Core Shell Magnetic Particles	IEEE Transactions on Magnetics	1.363	47(10)	3829-3832	2011	3	3	1.33333

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1	Domenico Truzzolillo, Dimitris Vlassopoulos, Abdul Munam and Mario Gauthie	Depletion gels from dense soft colloids: Rheology and thermoreversible melting	Journal of Rheology	3.276	58(5)	1441-1462	2014			
2	Domenico Truzzolillo, Dimitris Vlassopoulos, Mario Gauthier and Abdul Munam	Thermal melting in depletion gels of hairy nanoparticles	Soft Matter	4.151	9(38)	9088-9093	2013			
3	Xiang-Yu Li ; Jun-Wei Zha ; Si-Jiao Wang ; Shao-Long Zhong ; Chong Zhan	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			
4	Li, SB (Li, Shuaibing) ; Kong, QY (Kong, Qingyi) ; Cui, Y (Cui, Yi) ; Pang, M (Pang, Min) ; Kang, YQ (Kang, Yongqiang) ; Wu, GN (Wu, Guangning)	Electrothermal Distortion Analysis and Structural Strain Assessment of Vehicle Cable Terminals Under Bending Stresses	IEEE TRANSACTIONS ON TRANSPORTATION ELECTRIFICATION	7.2	11(1)		2025			
2011	Marina-Aura DARIESCU, Ovidiu BUHUCIANU, Iordana AȘTEFĂNOAEI	24) Chiral electrons in static fields at finite temperature	Romanian Journal in Physics	0.414	56(9-10)	1043-1052	2011	3	3	1.667

citată în 5 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			
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)		2013			

3	Ovidiu Buhucianu	Massless fermions in external fields in terms of Heun`s functions	Acta Physica Polonica B	0.44	43		2012			
4	Rouabhia, TI (Rouabhia, Tarek lmed) ; Boumali, A (Boumali, Abdelmalek); Hassanabadi, H (Hassanabadi, Hassan)	Effect of the Acceleration of the Rindler Spacetime on the Statistical Properties of the Klein-Gordon Oscillator in One Dimension	PHYSICS OF PARTICLES AND NUCLEI LETTERS	0.5	20(2)		2023			
5	Boumali, A (Boumali, A.) ; Allouani, R (Allouani, R.) ; Bouzenada, A (Bouzenada, A.) ; Serdouk, F (Serdouk, F.)	EFFECT OF THE APPLIED ELECTRIC FIELD ON THE THERMAL PROPERTIES OF THE RELATIVISTIC HARMONIC OSCILLATOR IN ONE DIMENSION	UKRAINIAN JOURNAL OF PHYSICS	0.6	68(4)		2023			
2013	Iordana AȘTEFĂNOAEI, Ioan DUMITRU, Alexandru STANCU and Horia CHIRIAC	25) Monitoring the thermal effects in the magnetic hyperthermia	E-Health and Bioengineering Conference (EHB), ISI Conference Proceeding	ISI Proceeding			2013	4	4	0.5
citată în 2 lucrari:										
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			
2	Mehran MinbashiAmirhossein Ahmadkhan KordbachehArash GhobadiValery V. Tuchin	Optimization of power used in liver cancer microwave therapy by injection of Magnetic Nanoparticles (MNPs)	Computers in Biology and Medicine	2.286			2020			

2010	Daniel Radu, Antonio Stefano Guerra, Cristina Ioniță, <u>lordana Aștefănoaei</u>	26) Heat loss through connecting thermistor wires in a three-body graphite calorimeter	Metrologia	1.688	47(3)	179	2010	4	4	1
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			
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			
3	Skliarov, V	Computational modeling of colorimetric primary transducer for metrological assurance in additive manufacturing	Conference on Smart Structures and NDE for Industry 4.0 2018 SMART STRUCTURES AND NDE FOR INDUSTRY 4.0 10602	Isi Proceeding			2018			
4	Panasenko, RA; Tutnov, IA; (...); Berlyand, VA	Specialized Temperature Measuring Systems in High Precision Devices	2015 INTERNATIONAL CONFERENCE ON CONTROL, INSTRUMENTATION, COMMUNICATION AND COMPUTATIONAL TECHNOLOGIES (ICCICCT)	Isi Proceeding		pag 664-667	2015			
2010	Cristina IONITĂ, Daniel RADU, <u>lordana AȘTEFĂNOAEI</u>	27) Radiative Heat Loss Correction for 3-Body Graphite Calorimeters	Acta Physica Polonica A	0.467	118(4)		2010	3	3	1.33333
citată în 4 lucrari:										

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)		2011			
2	Jeppe Brage Christensen, Grichar Valdes Santurio, Anne Vestergaard, Stine S. Korreman, Claus E. Andersen	Designing a Graphite Calorimeter for Scintillator Quenching Measurements	Radiation Measurements	1.435	132(106277)		2020			
3	Jeppe Brage Christensen, Anne Vestergaard and Claus E Andersen	Using a small-core graphite calorimeter for dosimetry and scintillator quenching corrections in a therapeutic proton beam	Physics in Medicine & Biology	3.609	65(21)		2020			
4	Cote, B (Cote, Benjamin); Keszti, F (Keszti, Federico); Bancheri, J (Bancheri, Julien); Sarfehnia, A (Sarfehnia, Arman); Seuntjens, J (Seuntjens, Jan); Renaud, J (Renaud, James)	Feasibility of operating a millimeter-scale graphite calorimeter for absolute dosimetry of small-field photon beams in the clinic	Medical Physics		48(11)	7476-7492	2021			
2008	Dumitru, I (Dumitru, I.); Astefanoaei, I ; Grimberg, R, Stancu, A	28) The energy states of cylindrical quantum dot systems	Journal of Optoelectronics and Advanced Materials	0.433	10(2)	9			4	0.25
	citata in lucrarea									
	Bera, A (Bera, Aindrila); Ghosh, A (Ghosh, Anuja); Ghosh, M (Ghosh, Manas)	Role of noise-binding energy interplay on Stark shift and dipole polarizabilities of impurity doped quantum dots	JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS	0.5	21(7)	499	2019			

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} Nb ₁ Cu 0.5 microwires for double functional sensors	Physica Status Solidi (A)	1.469	210(11)	2515-2520	2013			
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			
2007	Iordana Aștefănoaei , Ioan Dumitru, Raimond Grimberg, Alexandru Stancu	31) The effect of a metallic layer on energetic states of quantum dots	Sensor Letters	1.587	5(1)	185-188	2007	4	4	0.25

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, DOI10.1002/wnan.62	WILEY Interdisciplinary reviews - Nanomedicine and Nanobiotechnology	5.681	2(1)	48-58	2010			
2007	Iordana Aștefănoaei , Alexandru Stancu, H. Chiriac,	32) 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	3	1.333

citată în 4 lucrari:

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			
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2	Kikuchi, H (Kikuchi, Hiroaki) Urakawa, Y (Urakawa, Yoshiki) Tanii, M (Tanii, Mamoru)	Changes in properties of thin-film magnetoimpedance element by Joule heating	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2.993	539		2021			
3	Kikuchi, H (Kikuchi, Hiroaki); Ueno, A (Ueno, Akitsugu) ; Tanii, M (Tanii, Masaru)	Controlling the Magnetoimpedance Property of Thin-Film Elements Using Joule Heating	IEEE TRANSACTIONS ON MAGNETICS	1.848	58(8)	DOI10.1109/TM AG.2022.31519 85	2021			
4	Kikuchi, H (Kikuchi, Hiroaki); Ueno, A (Ueno, Akitsugu); Tanii, M (Tanii, Masaru)	Realization of Different Anisotropy Direction for Each Thin-Film Magnetoimpedance Element on the Same Substrate	IEEE TRANSACTIONS ON MAGNETICS		59(15)	DOI10.1109/TM AG.2023.32802 15	2023			
2006	Astefanoaei Iordana; Radu Daniel; Chiriac Horia	33) Induced residual stresses in the preparation process of the glass- covered amo	J.OPTOELECTRON ADV M		8(3)		2006		3	0.333
	citata in lucrarea									
	Nematov, MG (Nematov, M. G.); Kolesnikova, V (Kolesnikova, V.) ; Evstigneeva, SA (Evstigneeva, S. A.) ; Alam, J (Alam, J.) ; Yudanov, NA (Yudanov, N. A.) ; Samokhvalov, AA (Samokhvalov, A. A.) ; Andreev, N (Andreev, N.); Podgornaya, SV (Podgornaya, S. V.); Soldatov, I (Soldatov, I.) ; Schaefer, R (Schaefer, R.) ; Rodionova, V (Rodionova, V.); Panina, LV (Panina, L. V.)	Excellent soft magnetic properties in Co-based amorphous alloys after heat treatment at temperatures near the crystallization onset	JOURNAL OF ALLOYS AND COMPOUNDS	6.3		890	2022			

2006	Iordana Aștefănoaei, D. Radu, H. Chiriac	34) The supplementary compression stresses in Fe-B-Si wires	Journal of Optoelectronics and Advanced Materials	1.106	8(5)	1736-1741	2006	3	3	0.333
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(17A3 14)		2015			
2006	Iordana Aștefănoaei and Daniel Radu	35) Distribution of the internal stresses in DC Joule-heated Fe77.5B15Si7.5 conventional amorphous microwires	Journal of Physics D: Applied Physics	2.077	39(18)		2006	2	2	0.5
citata in lucrarea:										
1	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			
2006	Iordana Aștefănoaei, D. Radu, H. Chiriac	36) Internal stress distribution in DC Joule-Heated Amorphous Glass-Covered Microwires	Journal of Physics: Condensed Matter	2.038	18(9)	2689-2716	2006	3	3	8
citată în 24 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			

2	E. V. Zamyatkina, M. I. Petrzhik	Estimation of the internal stresses in amorphous glass-covered microwires	Russian Metallurgy (Metally)	0.16	311	376	2011			
3	T. R. Chueva, V. T. Zabolotnyi, P. P. Umnov, N. V. Umnova, V. V. Molokanov	Conditions of formation of “thick” plastic amorphous Fe-Co microwires in Fe ₇₅ Si ₁₀ B ₁₅ -Co ₇₅ Si ₁₀ B ₁₅ system	Inorganic Materials: Applied Research	0.51	5(5)	504-508	2014			
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			
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	Zhukov, A (Zhukov, A.); Ipatov, M (Ipatov, M.) ; del Val, JJ (del Val, J. J.); Zhukova, V (Zhukova, V.) ; Chernenko, VA (Chernenko, V. A.)	Magnetic and structural properties of glass-coated Heusler – type microwires exhibiting martensitic transformation	Scientific Reports	4.011	8(621)		2018			
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, DOI10.1063/1.5004571	Appl. Phys. Lett	3.495	111(24)	242403	2017			

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	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			
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			
11	Zhukova, V (Zhukova, Valentina) Corte-Leon, P (Corte-Leon, Paula) Gonzalez-Legarreta, L (Gonzalez-Legarreta, Lorena) Talaat, A (Talaat, Ahmed) Blanco, JM (Maria Blanco, Juan) Ipatov, M (Ipatov, Mihail) Olivera, J (Olivera, Jesus) Zhukov, A (Zhukov, Arcady)	Optimization of Magnetic Properties of Magnetic Microwires by Post-Processing	Processes	2.847	8(8)		2020			

12	Corte-Leon, P (Corte-Leon, P.) Zhukova, V (Zhukova, V.) Ipatov, M (Ipatov, M.) Blanco, JM (Blanco, J. M.) Zhukov, A (Zhukov, A.)	Effect of Joule heating on giant magnetoimpedance effect and magnetic properties of Co-rich microwires	JOURNAL OF ALLOYS AND COMPOUNDS	5.316	883(160778)		2021			
13	Alekhina, I (Alekhina, Iuliia) Kolesnikova, V (Kolesnikova, Valeria) Rodionov, V (Rodionov, Vladimir) Andreev, N (Andreev, Nikolai) Panina, L (Panina, Larissa) Rodionova, V (Rodionova, Valeria) Perov, N (Perov, Nikolai)	An Indirect Method of Micromagnetic Structure Estimation in Microwires DOI10.3390/nano11020274	Nanomaterials	5.076	11(2)		2021			
14	Corte-Leon, P (Corte-Leon, Paula) Zhukova, V (Zhukova, Valentina) Chizhik, A (Chizhik, Alexandr) Blanco, JM (Blanco, Juan Maria) Ipatov, M (Ipatov, Mihail) Gonzalez-Legarreta, L (Gonzalez-Legarreta, Lorena) Zhukov, A (Zhukov, Arcady)	Magnetic Microwires with Unique Combination of Magnetic Properties Suitable for Various Magnetic Sensor Applications	Sensors	3.576	20(24)		2020			

15	Zhukova, V (Zhukova, Valentina) Corte-Leon, P (Corte-Leon, Paula) Gonzalez-Legarreta, L (Gonzalez-Legarreta, Lorena) Talaat, A (Talaat, Ahmed) Blanco, JM (Blanco, Juan Maria) Ipatov, M (Ipatov, Mihail) Olivera, J (Olivera, Jesus) Zhukov, A (Zhukov, Arcady)	Review of Domain Wall Dynamics Engineering in Magnetic Microwires	Nanomaterials	5.076	10(12)		2020			
16	Chizhik, A (Chizhik, Alexander) Gonzalez, J (Gonzalez, Julian) Zhukov, A (Zhukov, Arcady) Stupakiewicz, A (Stupakiewicz, Andrzej)	Control of Domain Structure in Magnetic Microwires by Combination of Torsion and Tension Stresses DOI10.1109/LMAG.2020.3028048	IEEE MAGNETICS LETTERS	1.549	11		2020			
17	Zhukova, V ; Corte-Leon, P ; Blanco, JM ; Ipatov, M; Gonzalez-Legarreta, L; Gonzalez, A ; Zhukov, A.	Development of Magnetically Soft Amorphous Microwires for Technological Applications DOI 10.3390/chemosensors10010026	Chemosensors	3.7	10(1)		2022			
18	V Zhukova, P Corte-Leon, JM Blanco, M Ipatov	Development of Co-Rich Microwires with Graded Magnetic Anisotropy DOI10.3390/s22010187	Sensors		22(1)		2022			

19	Arcady Zhukov, Paula Corte-Leon, Lorena Gonzalez-Legarreta, Mihail Ipatov, Juan Maria Blanco, Alvaro Gonzalez and Valentina Zhukova	Advanced functional magnetic microwires for technological applications	J. Phys. D: Appl. Phys.	3.2	55(25)	DOI10.1088/1361-6463/ac4fd7	2022			
20	Corte-León, P (Corte-Leon, P.) ; Gonzalez, A (Gonzalez, A.); Zhukova, V (Zhukova, V.) ; Ipatov, M (Ipatov, M.) ; Blanco, JM (Blanco, J. M.); Zhukov, A (Zhukov, A.)	Optimization of giant magnetoimpedance effect in Co-rich glass-coated microwires by annealing	JOURNAL OF ALLOYS AND COMPOUNDS	6.3	999	DOI10.1016/j.jalcom.2024.175023	2024			
21	Corte-Leon, P (Corte-Leon, P.); Skorvanek, I (Skorvanek, I.) ; Andrejka, F (Andrejka, F.) ; Jakubcin, M (Jakubcin, M.); Zhukova, V (Zhukova, V.); Zhukov, A (Zhukov, A.)	Exploring the temperature dependence of magnetic properties and magnetoimpedance effect in Co-rich microwires	JOURNAL OF SCIENCE-ADVANCED MATERIALS AND DEVICES	6.8	9(2)	DOI10.1016/j.jsamd.2024.100713	2024			
22	Wederni, A (Wederni, Asma); Salaheldeen, M (Salaheldeen, Mohamed) ; Ipatov, M (Ipatov, Mihail); Zhukova, V (Zhukova, Valentina); Zhukov, A (Zhukov, Arcady)	Influence of the Geometrical Aspect Ratio on the Magneto-Structural Properties of Co ₂ MnSi Microwires	METALS	2.5	13(10)	DOI10.3390/met13101692	2023			
23	Salaheldeen, M; Wederni, A; Zhukov, A	Carbon-Doped Co ₂ MnSi Heusler Alloy Microwires with Improved Thermal Characteristics of Magnetization for Multifunctional Applications	MATERIALS			DOI10.3390/ma16155333	2023			

24	Salaheldeen, M (Salaheldeen, Mohamed) ; Zhukova, V (Zhukova, Valentina); Blanco, JM (Blanco, Juan Maria); Gonzalez, J (Gonzalez, Julian); Zhukov, A (Zhukov, Arcady	Advances in the Fabrication and Magnetic Properties of Heusler Alloy Gass-Coated Microwires with High Curie Temperature	Metals	2.5	15(7)	10.3390/met1507	2025			
2005	Iordana Aștefănoaei, D. Radu, H. Chiriac	37) Temperature Distributions in DC Joule-Heated Amorphous Ribbons	Physica Status Solidi (A)	1.041	202(13)	2419-2435	2005	3	3	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			
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			
3	Victor De Manuel and Rafael Perez del Real	A model concerning the environmental factors that modify the nanocrystallization of current-annealed samples	Philosophical Magazine	1.273	89(32)		2009			
2005	Iordana Aștefănoaei, D. Radu, H. Chiriac	38) On dc Joule-heating effects in amorphous glass-covered Fe77.5Si7.5B15 microwires	Journal of Physics D: Applied Physics	1.957	38(2)	235-243	2005		3	1
	citata in 3 lucrari									
1	Shilu Zhao Faxiang Qin Yang Luo Yunfei Wang Azim Uddin Xuefei Zheng Diana Estevez Huan Wang Hua-XinPeng	Responsive left-handed behaviour of ferromagnetic microwire composites by in-situ electric and magnetic fields	Composites Communications	6.617		246-252	2020			
2	Nematov M. G., Baraban I, Yudanov, NA, Rodionova, V, Qin F. X., Peng, H-X, Panina, L., V.	Evolution of the magnetic anisotropy and magnetostriction in Co-based amorphous alloys microwires due to current annealing and stress-sensory applications	Journal of Alloys and Compounds	5.316	837	DOI10.1016/j.jallcom.2020.155584	2020			

3	Vahovsky O., Richter K, Varga, R, McCord J.	Local distortions of surface domain walls in cylindrical microwires observed by magneto-optics	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2.993	537	168168	2021			
2005	Iordana Aștefănoaei, D. Radu, H. Chiriac	39) Temperature Distributions in DC Joule-Heated Amorphous Magnetic Materials	Journal of Optoelectronics and Advanced Materials	1.138	7(2)	933-950	2005	3	3	1.33333

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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			
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			
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			
4	Gudoshnikov, S.A, Odintsov, V. I., Liubimov, B. Ya., Menshov, S.A., Churukanova, M. N., Kaloshkin, S. D., Elmanov, G. N.	Method for evaluating the temperature of amorphous ferromagnetic microwires under Joule heating	MEASUREMENT	5.131	182(109783)		2021			
1996	Iordana Aștefănoaei, Horia Chiriac	40) A model of the DC Joule heating in amorphous wires	Physica Status Solidi (A)	0.547	153(1)	183-189	1996	2	2	5.5

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									Total	87.014
									Min =	40

Data,
29 mai 2026

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