

Conferentiar dr. habil. C. N. Marin

Fișa de verificare a îndeplinirii criteriilor CNATDCU

Precizări:

- n_i^{ef} reprezintă numărul efectiv de autori ai itemului i și ia următoarele valori: n_i dacă $n_i \leq 5$, $(n_i + 5)/2$ dacă $5 < n_i \leq 15$, $(n_i + 15)/3$ dacă $15 < n_i \leq 75$ și $(n_i + 45)/4$ dacă $n_i > 75$, unde n_i reprezintă numărul de autori ai articolului i . În cazul publicațiilor HEPP (High Energy Particle Physics) cu număr mare de autori, dacă articolul are la bază o notă internă a experimentului la care candidatul este coautor, atunci n_i^{ef} poate fi dat de numărul de autori din nota internă.
- Lucrările de tip "Article. Proceedings paper" pot fi considerate la activitatea de cercetare sau la cea didactică și profesională, o singură dată, la alegerea candidatului.

ACTIVITATEA DIDACTICĂ ȘI PROFESIONALĂ

A2 – Capitole de cărți în edituri internaționale recunoscute Web of Science în calitate de autor/Review-uri în reviste cotate ISI

Nr. crt.	Titlul	Autori	Editura, an, link (dacă este cazul)	Punctaj $1/n_i^{ef}$
1.	<i>An investigation of the microscopic and macroscopic properties of magnetic fluids</i> Review article	P.C.Fannin, C.N.Marin , I. Malaescu, N.Stefu	Physica B: Condensed Matter, 388 (2007) 87–92 https://doi.org/10.1016/j.physb.2006.05.008 WOS:0002438874 00013	1/4
2	<i>Methods of morpho-structural characterization and determination of the electrical and magnetic properties of metal oxides</i>	Iosif Malaescu, Aurel Ercuța, Paula Sfirloagă, Maria Poienar, Paulina Vlazan, Antoanetta Lungu, Catalin N. Marin , Mihail Lungu	<i>Cambridge Scholars Publishing, 2023, ISBN: 1-5275-9166-2,</i> https://www.cambridgescholars.com/resources/pdfs/978-1-5275-9166-0-sample.pdf	1/6,5
3	<i>Oxide materials with spinel structures</i>	Paulina Vlăzan, Antoanetta Lungu, Paula Sfirloagă, Catalin N. Marin , Aurel Ercuța, Iosif Malaescu	<i>Cambridge Scholars Publishing, 2023, ISBN: 1-5275-9166-2,</i> https://www.cambridgescholars.com/r	1/5,5

			esources/pdfs/978-1-5275-9166-0-sample.pdf	
4	<i>Ceramic materials with perovskite structures</i>	Paula Sfirloagă, Paulina Vlazan, <u>Catalin N. Marin</u> , Iosif Malaescu	Cambridge Scholars Publishing, 2023, ISBN: 1-5275-9166-2, https://www.cambridge.org/core/doi/10.1017/978-1-5275-9166-0-sample.pdf	1/4
5	<i>Polycrystalline cerdnerite materials</i>	Maria Poienar, Iosif Malaescu, <u>Catalin N. Marin</u> , Paulina Vlazan	Cambridge Scholars Publishing, 2023, ISBN: 1-5275-9166-2, https://www.cambridge.org/core/doi/10.1017/978-1-5275-9166-0-sample.pdf	1/4
6	<i>The Fundamentals and Challenges of Oxide Materials - Applications</i>	<u>Catalin N. Marin</u> , Mihail Lungu, Madalin Bunoiu, Iosif Malaescu	Cambridge Scholars Publishing, 2023, ISBN: 1-5275-9166-2, https://www.cambridge.org/core/doi/10.1017/978-1-5275-9166-0-sample.pdf	1/4
Punctaj total indicator A ₂				1,3357

A3 – Cărți în edituri internaționale recunoscute Web of Science în calitate de editor

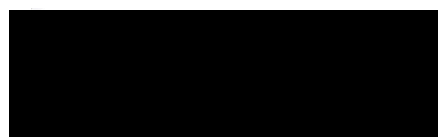
Nr. crt.	Titlul	Autori	Editura, an, link (dacă este cazul)	Punctaj $0.5/n_i^{ef}$
1	<i>TIM 18 Physics Conference</i>	C. N. Marin (editor)	AIP Conference Proceedings, vol. 2071 (2019) https://doi.org/10.1063/1.5090047 ISBN: 978-0-7354-1799-1 https://pubs.aip.org/aip/acp/article/207	0,5

			3=&filter_code_4=WFM&filter_request_4=&filter_code_5=WSL&filter_request_5=	
2	<i>Fizica si tehnologia materialelor dielectrice - Curs</i>	C. N. Marin, I. Malaescu,	<p>Editura Universitatii de Vest din Timisoara, 2008 ISBN 978-973-125-166-0</p> <p>verificare după ISBN http://193.230.238.122/F/BE67DFKL9DL48FYJMJ42HKVEPX5SUG2DN6FTQC6HLFXFTEPVMF-47443?func=find-b&request=ISBN+978-973-125-166-0&find_code=ISB&adjacent=N&local_base=CUT01&x=0&y=0&filter_code_1=WLN&filter_request_1=&filter_code_2=WYR&filter_request_2=&filter_code_3=WYR&filter_request_3=&filter_code_4=WFM&filter_request_4=&filter_code_5=WSL&filter_request_5=</p>	0,5/2
3	<i>Fizica pământului și a atmosferei - Curs</i>	Nicoleta Ștefu, C. N. Marin	<p>Editura Eurobit, Timișoara, 2008 ISBN 978-973-620-415-9 https://edituraeurobit.ro/2008-2/</p> <p>verificare după ISBN http://193.230.238.122/F/BE67DFKL9DL48FYJMJ42HKVEPX5SUG2DN6FTQC6HLFXFTEPVMF-48890?func=find-b&request=ISBN++978-973-620-415-9&find_code=ISB&adjacent=N&local_base=CUT01&x=0&y=0&filter_code_1=WLN&filter_request_1=&filter_code_2=WYR&filter_request_2=&filter_code_3=WYR&filter_request_3=&filter_code_4=WFM&filter_request_4=&filter_code_5=WSL&filter_request_5=</p>	0,5/2
4	<i>Comportarea sistemelor disperse de nanoparticule magnetice în câmpuri magnetice statice și dinamice</i>	C. N. Marin	<p>Editura Eurobit, Timișoara, 2014 ISBN 978-973-132-127-1 https://edituraeurobit.ro/2014-2/</p> <p>verificare după ISBN http://193.230.238.122/F/BE67DFKL9DL48FYJMJ42HKVEPX5SUG2DN6FTQC6HLFXFTEPVMF-50197?func=find-b&request=ISBN+978-973-132-127-1&find_code=ISB&adjacent=N&local_base=CUT01&x=0&y=0&filter_code_1=WLN&filter_request_1=&filter_code_2=WYR&filter_request_2=&filter_code_3=WYR&filter_request_3=&filter_code_4=WFM&filter_request_4=</p>	0,5

			ter_request_4=&filter_code_5=WSL&filter_request_5=	
5	<i>Elemente de fizica radiațiilor și dozimetrie cu aplicații în radioterapie</i>	M. Spunei, I. Mălăescu, Maria Mihai, C. N. Marin	<p>Editura Eurobit, Timișoara, 2014 ISBN 978-973-132-193-6 https://edituraeurobit.ro/2014-2/ verificare după ISBN http://193.230.238.122/F/BE67DFKL9DL48FYJMJ42HKVEPX5SUG2DN6FTQC6HLFXFTEPVMF-50774?func=find-b&request=ISBN+978-973-132-193-6&find_code=ISB&adjacent=N&local_base=CUT01&x=0&y=0&filter_code_1=WLN&filter_request_1=&filter_code_2=WYR&filter_request_2=&filter_code_3=WYR&filter_request_3=&filter_code_4=WFM&filter_request_4=&filter_code_5=WSL&filter_request_5=</p>	0,5/4
6	<i>Fizică experimentală</i> - Curs	C. N. Marin	<p>Editura Eurobit, Timișoara, 2014 ISBN 978-973-132-168-4 https://edituraeurobit.ro/2014-2/ verificare după ISBN http://193.230.238.122/F/BE67DFKL9DL48FYJMJ42HKVEPX5SUG2DN6FTQC6HLFXFTEPVMF-50915?func=find-b&request=ISBN++978-973-132-168-4&find_code=ISB&adjacent=N&local_base=CUT01&x=0&y=0&filter_code_1=WLN&filter_request_1=&filter_code_2=WYR&filter_request_2=&filter_code_3=WYR&filter_request_3=&filter_code_4=WFM&filter_request_4=&filter_code_5=WSL&filter_request_5=</p>	0,5
7	<i>Măsurarea parametrilor electrici și magnetici ai materialelor cu linii de transmisie – Notițe pentru laborator</i>	C. N. Marin	<p>Editura Eurobit, Timișoara, 2014 ISBN 978-973-132-183-7 https://edituraeurobit.ro/2014-2/ verificare după ISBN http://193.230.238.122/F/BE67DFKL9DL48FYJMJ42HKVEPX5SUG2DN6FTQC6HLFXFTEPVMF-51083?func=find-b&request=ISBN+978-973-132-183-7&find_code=ISB&adjacent=N&local_base=CUT01&x=0&y=0&filter_code_1=WLN&filter_request_1=&filter_code_2=WYR&filter_request_2=&filter_code_3=WYR&filter_request_3=&filter_code_4=WFM&filter_request_4=&filter_code_5=WSL&filter_request_5=</p>	0,5
8	<i>Electronică - Culegere de probleme</i>	C. N. Marin, I. Mălăescu	<p>Editura Eurobit, Timișoara, 2015 ISBN 978-973-132-245-2 https://edituraeurobit.ro/2015-2/</p>	0,5/2

			<p>verificare după ISBN http://193.230.238.122/F/BE67DFKL9DL48FYJMJ42HKVEPX5SUG2DN6FTQC6HLFXFTEPVMF-51403?func=find-b&request=ISBN+978-973-132-245-2&find_code=ISB&adjacent=N&local_base=CUT01&x=0&y=0&filter_code_1=WLN&filter_request_1=&filter_code_2=WYR&filter_request_2=&filter_code_3=WYR&filter_request_3=&filter_code_4=WFM&filter_request_4=&filter_code_5=WSL&filter_request_5=</p>	
9	<i>Proprietăți magnetice ale materialelor – Notițe pentru laborator</i>	C. N. Marin	<p>Editura Eurobit, Timișoara, 2016 ISBN 978-973-132-326-8 https://edituraeurobit.ro/2016-2/ verificare după ISBN http://193.230.238.122/F/BE67DFKL9DL48FYJMJ42HKVEPX5SUG2DN6FTQC6HLFXFTEPVMF-52227?func=find-b&request=ISBN+978-973-132-326-8&find_code=ISB&adjacent=N&local_base=CUT01&x=0&y=0&filter_code_1=WLN&filter_request_1=&filter_code_2=WYR&filter_request_2=&filter_code_3=WYR&filter_request_3=&filter_code_4=WFM&filter_request_4=&filter_code_5=WSL&filter_request_5=</p>	0,5
10	<i>Caiet de Seminar. Electricitate și Magnetism</i>	Doru Marcel Bălățeanu, C. N. Marin	<p>Editura Eurobit, Timișoara, 2021, ISBN 978-973-132-796-9 verificare după ISBN http://193.230.238.122/F/BE67DFKL9DL48FYJMJ42HKVEPX5SUG2DN6FTQC6HLFXFTEPVMF-52489?func=find-b&request=ISBN+978-973-132-796-9&find_code=ISB&adjacent=N&local_base=CUT01&x=0&y=0&filter_code_1=WLN&filter_request_1=&filter_code_2=WYR&filter_request_2=&filter_code_3=WYR&filter_request_3=&filter_code_4=WFM&filter_request_4=&filter_code_5=WSL&filter_request_5=</p>	0,5/2
Punctaj total indicator A4				3,2917

Se acordă $0.5 / n_i^{ef}$ puncte pentru fiecare item.



A6 - Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri cu ISBN indexate ISI

Nr. crt.	Titlul	Autori	Revista, editura, an, link (dacă este cazul)	Punctaj $0.2/n_i^{ef}$
1	<i>Polarizing field and particle concentration dependence of the magnetic loss power in ferrofluids</i>	P.C. Fannin, I. Malaescu, N. Stefu, C. N. Marin	AIP Conference Proceedings 1131 (2009) pp 81-85 https://doi.org/10.1063/1.3153459	0.2/4
2	<i>Ferrofluid microwave devices with magnetically controlled impedances</i>	P. C. Fannin, N. Stefu, C. N. Marin , I. Malaescu, R. Totoreanu	AIP Conference Proceedings 1262 (2010) pp. 92-97 https://doi.org/10.1063/1.3482242	0.2/5
3	<i>Magnetic properties of the WC-Co cermet powders</i>	V. A. Serban, I. Malaescu, A. Ercuta, C. N. Marin , N Stefu, C. Opris, C. Codrean, D. Utu	AIP Conference Proceedings 1262 (2010) pp. 113-117 https://doi.org/10.1063/1.3482216	0.2/6.5
4	<i>Biasing field effect on the microwave dielectric properties of magnetic fluids</i>	C. Couper, C.N. Marin , P.C. Fannin	Physics Procedia, Volume 9 (2010) Pages 58-62 https://doi.org/10.1016/j.phpro.2010.11.015	0.2/3
5	<i>A Comparative Study of the Field Dependence of the Properties of Colloidal Suspensions of Nanoparticles and of Magnetic Microspheres</i>	P. C. Fannin, C. N. Marin , C. Couper, I. Malaescu, N. Stefu	PIERS Proceedings, Xi'an, China (2010) March 22-26 https://www.piers.org/pierspublications/PIERS2010Xi'anProceedings04.pdf https://www.academia.edu/31456992/A_Comparative_Study_of_the_Field_Dependence_of_the_Properties_of_Colloidal_Suspensions_of_Nanoparticles_and_of_Magnetic_Microspheres	0.2/5

6	<i>Comparative study of the microwave propagation parameters of some magnetic fluids in the presence of polarizing field</i>	I. Malaescu, C. N. Marin , P. C. Fannin, N. Stefu, A. Savici, D. Malaescu	AIP Conference Proceedings 1387 (2011) pp. 208-212 https://doi.org/10.1063/1.3647076	0.2/5.5
7	<i>The Use of Magnetic Spectroscopy in the Investigation of the Magnetic Viscosity of Nanoparticles at Microwave Frequencies</i>	P.C.Fannin, C.N.Marin	PIERS 2011 SUZHOU Book Series: Progress in Electromagnetics Research Symposium Pages: 114-117 Published: 2011 https://www.piers.org/pierspublications/PIERS2011SuzhouProceedings01.pdf	0.2/2
8	<i>A review of the solar energy database for the Banat plain</i>	G. M. Turi, C. N. Marin , M. Paulescu	AIP Conference Proceedings 1694 (2015) 040010-1 (5pp); https://doi.org/10.1063/1.4937262	0.2/3
9	<i>Dry eye syndrome among computer users</i>	Aurora Gajta, Daniela Turkoanje, Iosif Malaescu, Catalin-Nicolae Marin , Marie-Jeanne Koos, Biljana Jelacic, Vuk Milutinovic	AIP Conference Proceedings 1694 (2015) 040011-1 (5pp); https://doi.org/10.1063/1.4937263	0.2/6
10	<i>Influence of the size of particles on the magnetic heating of a mixed ferrite</i>	D. Lazic, P. C. Fannin, P. Sfirloaga, P. Barvinschi, I. Malaescu, V. Socoliuc, C. N. Marin	AIP Conference Proceedings 2071, 040012 (2019); https://doi.org/10.1063/1.5090079	0.2/6
11	<i>The stability of silicone based bolus before and after a radiotherapy treatment</i>	B. Ile, M. Spunei, I. Malaescu, C.N. Marin	AIP Conference Proceedings 2218, 030018 (2020) https://doi.org/10.1063/5.0001024	0.2/4
12	<i>Effect of Fe-doping on the structural, morphological and electrical properties of LaMnO3</i>	P. Sfirloaga, I. Malaescu C.N. Marin , M. Poienar, P. Vlazan	AIP Conference Proceedings 2218, 040003 (2020);	0.2/5

			https://doi.org/10.1063/5.0001173	
13	<i>The electrical conductivity of giniite Fe₅(PO₄)₄(OH)₃·2H₂O materials</i>	S. Brindusoiu, P. Sfirloaga, P. Vlazan, P. C. Fannin, I. Malaescu, C. N. Marin	AIP Conference Proceedings 2218, 030017 (2020); https://doi.org/10.1063/5.0001856	0.2/5.5
14	<i>Magneto-optical transmittance observed in magnetorheological suspensions films</i>	E. Anitas, I. Bica, M. Bunoiu, I. Malaescu, C. N. Marin , A. Ercuta, M. Balasoiiu, M. Lungu, G. Pascu	AIP Conference Proceedings 2218 , 030016 (2020); https://doi.org/10.1063/5.0002485	0.2/7
Punctaj total indicator A₆				0,6521

Se acordă 0.2/ n_i^{ef} puncte pentru fiecare item.

A9 - Director/ responsabil/ coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură (proiectele de cercetare se exclud)

Nr. crt.	Titlul proiectului sau programului	Calitatea (director/ responsabil/ coordonator)	Autoritatea contractantă, instituția, link (după cum este cazul)	Punctaj 0.5 / program
1	Programul de studii de licență – Fizică Medicală Acte doveditoare https://drive.google.com/file/d/1ZM3VVI ZmvTjPGu7dSTuDE1pa-RWzLxF/view?usp=share_link https://drive.google.com/file/d/1o9ig7S2 VhKHxpDEc5OAeSiLaNW9_hab/view?usp=share_link	Director 2014-2022	Facultatea de Fizică - UVT	0.5
Punctaj total indicator A₉				0,5

A10 – Director /responsabil pentru proiecte de cercetare câștigate prin competiție națională sau internațională; proiectele de la punctul A₉ se exclud).

Nr. crt.	Titlul proiectului	Calitatea (director sau responsabil)	Autoritatea contractantă, link (dacă este cazul)	Punctaj $VEuro/100.000$
1	<i>Dezvoltarea de compozite magnetodielectrice nanostructurate pentru crearea de anvelope inteligente cu absorbție</i>	Responsabil	Contract CNMP , Parteneriate, 2008-2011 https://drive.google.com/file/d/1ISDUlkoLVVOpQR8kLlOj5rAh2jsB8wbY/view?usp=share_link	2009 – 9382RON/(4.23 valoare medie BNRx100000) = 0,02217

	<i>pronunțată a microundelor</i>			2010 – 63240RON/(4. 21 valoare medie x100000)= 0,15021 2011 – 27118RON/(4. 23 valoare medie x100000)= 0,06408
2	<i>Studies on the correlation between the local structure and dynamic magnetic properties of ferrofluids - No. 96/15.02.2016 item 89</i>	Responsabil	ANCSI – IUCN Dubna https://drive.google.com/file/d/1jO8fk-epvPS1srUpuFagKsVG282tF0b0/view?usp=share_link	1700 USD/1,106 (curs mediu BND)=1537,0 7 Euro /100000 = 0,01537
3	<i>Investigation of the particle agglomeration in ferrofluids subjected to alternating magnetic fields Protocol no. 4645-1-2016/2017, 44134-4-2015/2017 Ordinul 220/10.04.2017, item 68</i>	Responsabil	ANCSI – IUCN Dubna https://drive.google.com/file/d/1cNF7_7R2kQ_ZiNVLxzm5YREcgL-vObA/view?usp=share_link	3300 USD/1,1272 (curs mediu BNR) =2927,60Euro /100000 = 0,02927
4	<i>Studies on the possible photo-degradation of the colloidal stability of magnetic fluids, nr tema 02-1-1107-2011-2019, pozitia 15 din Ordinul IUCN nr. 322/21.05.2018</i>	Responsabil	ANCSI – IUCN Dubna https://drive.google.com/file/d/1JlpP-02Cc5CsGJALvdn61XmkyPyWCRvW/view?usp=share_link	2100 USD/1,1806 (curs mediu BNR)=1778,75 Euro /100000 = 0,01778
5	<i>Studies on the obtaining and properties of some bolus materials for radiotherapy applications, nr. tema 02-1-1107-2011/2019, pozitia 14 din Ordinul IUCN nr 397/27.05.2019</i>	Responsabil	ANCSI – IUCN Dubna https://drive.google.com/file/d/1XFIIAcPyb000iE02eaHnhj8PVtR701d/view?usp=share_link	2700 USD/1,1197 (curs mediu BNR)=2411,36 Euro /100000 = 0,02411



6.	<i>Study on some water-based ferrofluids as potential photoconductive photodetector</i> 02-1-1107-2011/2021, poziția 11 din Ordinul IUCN nr 268/20.05.2020	Responsabil	ANCSI – IUCN Dubna https://drive.google.com/file/d/1D0Q0cIfqwMnFlsQqv77VDwtGDgte8c7P/view?usp=share_link	[4500 USD /1.1397 (valoarea medie BNR) = 3221.18 Euro]/100000 = 0,03221
7	Proiect JINR Dubna – UVT - <i>Research on the photo-aggregation phenomena of colloidal particles in complex magneto-fluidic systems for photoconductive photodetectors</i> Nr. temă 02-1-1107-2011/2021, poziția nr. 4 din Ordinul IUCN nr. 365 / 11.05.2021		ANCSI – IUCN Dubna https://drive.google.com/file/d/1WBxyw_7JfRAwsgxX3d3aeEFjrfxllCgO/view?usp=share_link	3500 USD/1.1826 (valoarea medie BNR)=2961.08 [Euro]/100000 = 0,02959
Punctaj total indicator A10				0,38479

Se acordă $V / 100.000$ puncte pentru fiecare item, unde V este valoarea contractului în euro. Sumele în lei sau în alte valute se convertesc în euro la cursul mediu din anul respectiv conform www.bnr.ro pentru perioada de după 1999 și la cursul din 1999 pentru perioada anterioară. Responsabilii de proiect sunt cei care conduc o echipă de cercetare, fiind menționați ca atare în proiectul depus; în cazul lor se consideră doar suma aferentă echipei conduse.

Punctaj total obținut pentru activitatea didactică și profesională: $A = \sum_{i=1}^{11} A_i$

A = 7,41429

2. Activitatea de cercetare

2.1 – Articole științifice originale, în extenso, ca autor

Nr.	Referința bibliografică (Autori, Titlul, Revista, Vol., anul, pag.inceput-pag.sfârșit)	a_i	n_i	n_i^{ef}	a_i / n_i^{ef}
1	I.Hrianca, I.Mălăescu, F.Claici, C.N.Marin , “ <i>The influence of particles concentration in ferrofluids on the broadening of the magnetic resonance line</i> ”, J.	0.6	4	4	0,15

	Magn. Magn. Mater 201 no.1-3 (1999) 126-128.				
2	I.Mălăescu, C.N.Marin , “Deviation from the superparamagnetic behaviour of fine-particle systems”, J. Magn. Magn. Mater 218 (2000) 91-96.	0.6	2	2	0,3
3	C.N.Marin , I.Mălăescu, A.Ercuța, “The dependence of the effective anisotropy constant on particle concentration within ferrofluids, measured by magnetic resonance”, J.Phys.D: Appl.Phys. 34, no.10 (2001) 1466-1469.	0.8	3	3	0,2666
4	I.Mălăescu, C.N.Marin , “Dependence on the temperature of the activation energy in the dielectric relaxation processes for ferrofluids in low-frequency field”, J. Magn. Magn. Mater 252 (2002) 68-70.	0.7	2	2	0,35
5	I.Mălăescu, C.N.Marin , “Dielectric behavior of some ferrofluids in low-frequency fields”, Journal of Colloid and Interface Science 251 (2002) 73-77	0.77	2	2	0,385
6	C.N.Marin , „The particle concentration effect on magnetic resonance linewidth for magnetic liquids with chain aggregates”, J. Magn. Magn. Mater. 250 (2002) 197-202	0.7	1	1	0,7
7	C.N.Marin , I.Mălăescu, V.Socoliuc, „Study of the interparticle interaction effect on magnetic resonance line in ferrofluids”, Journal of Optoelectronics and Advanced Materials, 5 (2003) 227 - 231.	0.19	3	3	0,0633
8	P.C.Fannin, C.N.Marin , V.Socoliuc, G.M.Istrățucă , A.T.Giannitsis, “The effect of colloidal stabilization upon ferrimagnetic resonance in magnetic fluids in the presence of a polarizing magnetic field”, J.Phys.D: Appl.Phys., 36 (2003) 1227 – 1235	0.7	5	5	0,14
9	P.C.Fannin, C.N.Marin , I.Mălăescu, “The influence of particle concentration and polarizing field on the resonant behaviour of magnetic fluids”, J. Phys.: Condensed Matter 15 (2003) 4739 – 4750	1	3	3	0,3333
10	P.C.Fannin, C.N.Marin , V.Socoliuc, G.M.Istrățucă, “Investigation of particle agglomeration in un-	0.6	4	4	0,15

	<i>polarised magnetic fluids by means of magnetic resonance measurements</i> ”, J.Magn.Magn.Mater., 284C (2004) 104-112				
11	P.C.Fannin, C.N.Marin , I.Mălăescu, A.T.Giannitsis, “ <i>Microwave absorption of composite magnetic fluids</i> ”, J.Magn.Magn.Mater. 289 (2005) 78-80	0.5	4	4	0,125
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54	C. N. Marin, I. Malaescu, <i>Experimental and theoretical investigations on thermal conductivity of a ferrofluid under the influence of magnetic field</i> , EUROPEAN PHYSICAL JOURNAL E, 43 Issue: 9 (2020) Article Number: 61	0.516	2	2	0,258
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Punctaj total indicator 2.1					I = 10,2726

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- a_i – scorul de influență absolut al revistei respective (www.isiknowledge.com, secțiunea *Journal Citation Reports*); în cazul în care anul de publicare nu se regăsește în baza de date, se va alege valoarea corespunzătoare anului cel mai apropiat de cel în care a fost publicat articolul.
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2.2 –Articole științifice originale în extenso ca prim autor sau autor corespondent, conform mențiunilor de pe articol.

Nr.	Referința bibliografică (Autori, Titlul, Revista, Vol., anul, pag.inceput-pag.sfârșit)	a_i
1	C.N.Marin , I.Mălăescu, A.Ercuța, “ <i>The dependence of the effective anisotropy constant on particle concentration within ferrofluids, measured by magnetic resonance</i> ”, J.Phys.D: Appl.Phys. 34, no.10 (2001) 1466-1469	0,8
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8	C. N. Marin , “ <i>Thermal and particle size distribution effects on the ferromagnetic resonance in magnetic fluids</i> ” J.Magn.Magn.Mater., 300 (2006) 397 – 406	0,5
9	P. C. Fannin, C. N. Marin , I. Malaescu, N. Stefu “ <i>Microwave dielectric properties of magnetite colloidal particles in magnetic fluids</i> ”, J. Phys.: Condensed Matter, 19 (2007) 036104-036111	1,024
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11	P. C. Fannin, C. N. Marin , I. Malaescu, N. Stefu, P. Vlăzan, S. Novaconi, S. Popescu, “ <i>Effect of the concentration of precursors on the microwave absorbent properties of Zn/Fe oxide nanopowders</i> ”, Journal of Nanoparticle Research, 13 (2011) 311–319	0,931
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14	C. N. Marin , I. Malaescu, A. Savici, <i>Investigation of the low frequency polarization mechanisms in magnetic fluids</i> , ACTA PHYSICA POLONICA A, Vol. 124 , No. 4, (2013) 724 – 727	0,130
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16	M. Spunei, I. Malaescu, M. Mihai and C. N. Marin , <i>Absorbing materials with applications in radiotherapy and radioprotection</i> , Radiation Protection Dosimetry (2014) doi:10.1093/rpd/ncu252	0,313
17	C. N. Marin , I. Malaescu, P. C. Fannin, <i>Theoretical evaluation of the heating rate of ferrofluids</i> , J Therm Anal Calorim (2014) DOI 10.1007/s10973-014-4224-2	0,251

18	C.N. Marin , P.C. Fannin, I. Malaescu, <i>Time solved susceptibility spectra of magnetic fluids</i> , Journal of Magnetism and Magnetic Materials 388 (2015) 45-48	0,470
19	D. Malaescu, I. Grozescu, P. Sfirloaga, P. Vlazan, C. N. Marin , <i>The Electrical Properties of Some Composite Materials Based on Sodium and Tantalum Oxides</i> , Acta Physica Polonica A 129 (1) (2016) 133-137.	0,104
20	I. Malaescu, A. Lungu, C. N. Marin , P. Vlazan, P. Sfirloaga, G. M. Turi, <i>Experimental investigations of the structural transformations induced by the heat treatment in manganese ferrite synthesized by ultrasonic assisted co-precipitation method</i> , Ceramics International, 42 (2016) 16744–16748	0,460
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22	P.C. Fannin, C.N. Marin , I. Malaescu, K. Raj, C. Popoiu, <i>Local arrangement of particles in magnetic fluids due to the measurement alternating field</i> , Journal of Magnetism and Magnetic Materials, 438, (2017) 116-120	0,466
23	I.Malaescu, P.C. Fannin, C.N. Marin , D. Lazic, <i>The concept of ferrofluid preheating in the treatment of cancer by magnetic hyperthermia of tissues</i> , Medical Hypotheses, 110 (2018) 76 - 79	0,299
24	I. Malaescu, A. Lungu, C. N. Marin , P. Sfirloaga, P. Vlazan, S. Brindusoiu, M. Poienar, <i>Temperature dependence of the dynamic electrical properties of $CuI+xMnI-xO_2$ ($x=0$ and 0.06) cerdnerite materials</i> , Ceramics International, 44 (10) (2018) 11610-11616	0,454
25	D. Lazic, I. Malaescu, O. M. Bunoiu, I. Marin, F. G. Popescu, V. Socoliuc, C. N. Marin , <i>Investigation of therapeutic-like irradiation effect on magnetic hyperthermia characteristics of a water-based ferrofluid with magnetite particles</i> , Journal of Magnetism and Magnetic Materials 502 (2020) 166605	0,459
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Punctaj total indicator 2.2		P = 19,282

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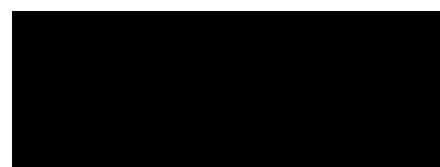
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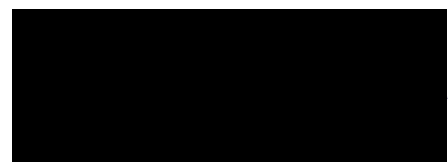
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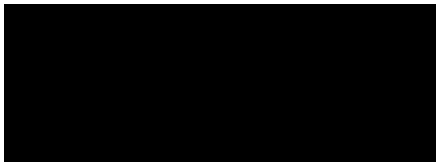
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Formula de calcul pentru indicatorul 3.1: $C = \sum_{i=1}^p \frac{c_i}{n_i^{ef}}$,

unde:

p – numărul total de publicații ale candidatului;

c_i – numărul de citări pentru publicația “ i ”;

n_i – numărul de autori ai publicației “ i ” citate,

n_i^{ef} – numărul efectiv de autori ai publicației “ i ” citate.

Nu se iau în considerare citările provenind din articole care au ca autor sau coautor candidatul (autocitările);

Punctaj total $C = 119.421$

3.2. Indicele Hirsch (conform Web of Science)

$h = 14$

Punctaj total CNATDCU: $T=A+I/2+P/2+C/20+h/5 = 7.414 + 10.272/2 + 19.282/2 + 119.421/20 + 14/5$

$T = 30,962$

	A	I	P	C	h	T
Standard profesor	>2	>4	>4	>40	>10	>12
Punctaj realizat	7,414	10,272	19,282	119,421	14	30.962
Procent indeplinire criterii	370,7%	256,8%	482,05%	298,55%	140%	258,01%

Timisoara
27.05.2023

Conf. Dr. Habil. C. N. Marin

