Fişa de verificare a îndeplinirii standardelor minimale
Prof. Dr. Emerit Iosif Mălăescu

1. ACTIVITATEA DIDACTICĂ ŞI PROFESIONALĂ

Pentru verificarea activităţii **A2**, indicatorul **1**

Nr.	**Capitole de cărţi în edituri internaţionale recunoscute Web of Science în calitate de autor/Review-uri in reviste cotate ISI**	**Autori**	**Editor, an**	n_i	n_i^{ef}	**Punctaj** $(1/n_i^{ef})$
1	*An investigation of the microscopic and macroscopic properties of magnetic fluids* **Review article**	P.C.Fannin, C.N.Marin, **I. Malaescu**, N.Stefu,	Physica B: Condensed Matter, 388 (2007) 87–92.	4	4	1/4
2	*Determination of the Landau-Lifshitz damping parameter of composite magnetic fluids* **Review article**	P. C. Fannin, **I. Malaescu**, C. N. Marin,	Physica B: Condensed Matter, 388 (2007) 93–98	3	3	1/3
Punctaj total indicator $\mathbf{A_2}$						**0.583**

Pentru verificarea activităţii **A3**, indicatorul **1**

Nr.	**Cărţi în edituri internaţionale recunoscute WOS în calitate de editor**	**Editori, an**	n_i	n_i^{ef}	**Punctaj** $(0.5/n_i^{ef})$
1.	AIP Conference Proceedings 1131, Melville, New-York, 2009, ISBN: 978-0-7354-0668-1, Proceedings of the Physics Conference TIM-08, Timisoara, Romania 28-29 November 2008	Mădălin Bunoiu, Iosif Mălăescu, 2009	2	2	0.250
2.	AIP Conference Proceedings 1262, Melville, New-York, 2010, ISBN: 978-0-7354-0810-4, Proceedings of the Physics Conference TIM-09, Timisoara, Romania 27-28 November 2009	Mădălin Bunoiu, Iosif Mălăescu, 2010	2	2	0.250
3.	AIP Conference Proceedings 1387, Melville, New-York, 2011, ISBN: 978-0-7354-0951-4, Proceedings of the Physics Conference TIM-10, Timisoara, Romania 25-27 November 2010	Mădălin Bunoiu, Iosif Mălăescu, 2011	2	2	0.250
Punctaj total indicator $\mathbf{A_3}$					**0.750**

Pentru verificarea activităţii **A4**, indicatorul **1**

Nr.	**Cărţi, manuale, îndrumătoare de laborator în edituri naţionale sau alte edituri internaţionale ca autor, note interne, prezentări susţinute pentru aprobarea analizelor de date în cadrul colaborărilor mari**	**Autori, an**	n_i	n_i^{ef}	**Punctaj** $(0.5/n_i^{ef})$
1.	Ferofluide in camp de radiofrecventa Editura Mirton, Timişoara 1998, , ISBN: 973-578-499-8	Iosif Mălăescu 1998	1	1	0.5

2.	I. Malaescu, „*Materiale dielectrice si aplicatii*", Curs pentru uzul studentilor, Tipografia UVT, Timisoara 2007	Iosif Mălăescu 2007	1	1	0.5
3.	Materiale şi dispozitive electronice în câmp de înaltă frecvenţă, Editura Eurobit, Timişoara, 2008, ISBN: 978-973-620-391-6	Iosif Mălăescu 2008	1	1	0.5
4.	Microunde şi tehnologii cu microunde, Editura Universitatii de Vest, Timişoara, 2008, ISBN: 978-973-125-145-5	Iosif Mălăescu 2008	1	1	0.5
5.	Fizica si tehnologia materialelor dielectrice, Editura Universitatii de Vest, Timişoara, 2008, ISBN: 978-973-125-166-0	Catalin N. Marin Iosif Mălăescu 2008	2	2	0.25
6.	Elemente de fizica radiațiilor și dozimetrie cu aplicații în radioterapie, Editura Eurobit, Timişoara, 2014	M. Spunei, **I. Mălăescu**, Maria Mihai, C. N. Marin 2014	4	4	0.125
7.	Electronică - Culegere de probleme-, Editura Eurobit, Timisoara 2015	Cătălin N. Marin Iosif Mălăescu 2015	2	2	0.25
8.	Proprietăți magnetice ale materialelor, Editura Eurobit, Timisoara 2016	Iosif Mălăescu 2016	1	1	0.5
9.	Dispozitive și circuite electronice. Teme de seminar, Editura Eurobit, Timisoara 2016	Iosif Mălăescu 2016	1	1	0.5
Punctaj total indicator $\mathbf{A_4}$					**3.625**

Pentru verificarea activității **A6**, indicatorul **1**

Nr.	**Lucrări in extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate ISI**	**Autori, an**	$\mathbf{n_i}$	$\mathbf{n_i^{ef}}$	**Punctaj** $\mathbf{(0.2/n_i^{ef})}$
1.	*Polarizing field and particle concentration dependence of the magnetic loss power in ferrofluids*, AIP Conference Proceeding 1131, (2009) p. 81-85	P.C. Fannin, I. Malaescu, N. Stefu, C. N. Marin 2009	4	4	0.050
2.	*Ferrofluid microwave devices with magnetically controlled impedances*, AIP Conference Proceeding 1262, (2010) p. 92-97	P.C. Fannin, I. Malaescu, N. Stefu, C. N. Marin, R. Totoreanu ,2010	5	5	0.040
3.	*Magnetic properties of the WC-Co cermet powders*, AIP Conference Proceeding 1262, (2010) p. 113-117	V. A. , I. Malaescu, A. Ercuta, C. N. Marin, N Stefu, C. Opris, C. Codrean, D. Utu 2010	8	6.5	0.0307
4.	*A Comparative Study of the Field Dependence of the Properties of Colloidal Suspensions of Nanoparticles and of Magnetic Microspheres*, PIERS Proceedings Xian China (2010) 22-26	P. C. Fannin, C. N. Marin, C. Couper, I. Malaescu, N. Stefu 2010	5	5	0.040
5.	*Comparative study of the microwave propagation parameters of some magnetic fluids in the presence of polarizing field*, AIP Conference Proceeding 1387, (2011) p. 208-212	I. Malaescu, C. N. Marin, P. C. Fannin, N. Stefu, A. Savici, D. Malaescu 2011	6	5	0.040
6.	*Dry eye syndrome among computer users*, AIP Conference Proceedings 1694 (2015)	Aurora Gajta, DanielaTurkoanje,	7	4.8	0.041

	040011-1 (5pp); doi: 10.1063/1.4937263	Iosif Malaescu, Catalin N. Marin, Marie-Jeanne Koos, Biljana Jelicic, Vuk Milutinovic 2015			
7.	*Comparative Study on the Surface Dose of Some Bolus Materials*, International Journal of Medical Physics, Clinical Engineering and Radiation Oncology, **4** (2015) 348-352	I. Malaescu, C. N. Marin, Marius Spunei 2015	3	3	0.066
8.	*Polymeric membranes: Effects of catalyst volume fraction on dielectric relaxation time and crystallites dimensions*, Ind Chem 2016, 2:1 GIMAR CONFERENCE 01-02 Feb. 2016, Dubai, UAE http://dx.doi.org/10.4172/2469-9764.1000117	L. Iordaconiu, I. Malaescu, L. Chirigiu, I. Bica 2016	4	4	0.050
9.	*Influence of the Size of Particles on the Magnetic Heating of a Mixed Ferrite*, TIM18 PHYSICS CONFERENCE, Book Series: AIP Conference Proceedings, Vol. 2071, Article Number: UNSP 040012, DOI: 10.1063/1.5090079, Published: 2019, Document Type: Proceedings Paper	D. Lazic, P.C. Fannin, P. Sfirloaga, P. Barvinschi, **I. Malaescu**, V. Socoliuc, C.N. Marin 2019	7	6	0.0333
10.	*The Electrical Conductivity of Giniite $Fe_5(PO_4)_4(OH)_3{\cdot}2H_2O$ Materials*, AIP Conference Proceedings 2218, 030017 (2020); https://doi.org/10.1063/5.0001856	Silviu Brindusoiu, Paula Sfirloaga, Paulina Vlazan, Paul C. Fannin, Iosif Malaescu, Catalin N. Marin, 2020	6	5	0.040
11.	Magneto-Optical Transmittance Observed in Magnetorheological Suspensions Films, AIP Conference Proceedings 2218, 030016 (2020); https://doi.org/10.1063/5.0002485	Eugen Anitas, Ioan Bica, Madalin Bunoiu, Iosif Malaescu, Catalin Nicolae Marin, Aurel Ercuta, Maria Balasoiu, Mihai Lungu, Gabriel Pascu 2020	9	7	0.0285
12.	*Effect of Fe-doping on the structural, morphological and electrical properties of $LaMnO_3$*, AIP Conference Proceedings 2218, 040003 (2020); https://doi.org/10.1063/5.0001173	Paula Sfirloaga, Iosif Malaescu, Catalin Nicolae Marin, Maria Poienar, Paulina Vlazan 2020	5	5	0.040
13.	*The stability of silicone based bolus before and after a radiotherapy treatment*, AIP Conference Proceedings 2218, 030018 (2020); https://doi.org/10.1063/5.0001024	Bogdan Ile, Marius Spunei, Iosif Mălăescu, Cătălin N. Marin. 2020	4	4	0.050
Punctaj total indicator **A_6**					**0.5495**

Pentru verificarea activității **A9**, indicatorul **1**

Nr.	**Director/Responsabil/Coordonator pentru programe de studii, programe de formare continuă, proiecte**	**Director/Responsabil/Coordonator**	**Punctaj (0.5)**

	educaţionale şi proiecte de infrastructură		
1.	Smart nanomaterials - program master, UVT, Fizica	Director	0.500
2.	Fizica aplicată în medicină - program master, UVT, Fizica	Director	0.500
Punctaj total indicator $\mathbf{A_9}$			**1.000**

Pentru verificarea activităţii A10, indicatorul 1

Nr.	**Director/Responsabil pentru proiecte de cercetare în valoare V_i euro câștigate prin competiție națională sau internațională**	**Director/ Responsabil**	**Suma (Lei)**	**V_i (EUR)**	**Punctaj (V_i/100.000)**
1.	*Polarizing field and particle concentration dependence of the magnetic loss power in ferrofluids* - JINR Order No. 34/23.01.**2015 item 50** JINR Dubna Rusia - West University of Timisoara, Romania, Theme JINR 04-4-1121-2015/2017	MECS, Autoritatea Națională pentru Cercetare Științifică Responsabil	4100	1000 USD	0.01
2.	Analysis of the structural properties and heating rate of the ferrofluids in electromagnetic field - JINR Order No. 96/15.02.**2016 item 34** JINR Dubna Rusia - West University of Timisoara, Romania, Theme JINR 04-4-1121-2015/2017	MECS, Autoritatea Națională pentru Cercetare Științifică Responsabil	6150	1500 USD	0.015
3.	*Investigation of thermal and structural properties of the ferrofluids in polarizing magnetic field* - JINR Order No. 96/15.02.**2016 item 88** JINR Dubna Rusia - West University of Timisoara, Romania, Theme JINR 04-4-1121-2015/2017	MECS, Autoritatea Națională pentru Cercetare Științifică Responsabil	8610	2100 USD	0.021
4.	The effect of the particles concentration and of polarizing magnetic field on the thermal and structural properties of the ferofluids- JINR Order No. 96/15.04.**2017 item 66** JINR Dubna Rusia - West University of Timisoara, Romania, Theme JINR 04-4-1121-2015/2017	MECS, Autoritatea Națională pentru Cercetare Științifică Responsabil	9430	2300 USD	0.023
5.	Combined Morphological and Structural Investigations of Complex Nanoparticle Systems - the position no. 81 from the JINR Order No. nr. 269/20.05.2020 JINR Dubna Rusia - West University of Timisoara, Romania, Theme JINR code no. 04-5-1131-2017/2021	MECS, Autoritatea Națională pentru Cercetare Științifică **Responsabil**	16.800	4000 USD	0.04
6.	Combined Morphological and Structural Investigations of Complex Nanoparticle Systems - the position no. 96 from the JINR Order No. nr.	MECS, Autoritatea Națională pentru	12.600	3000 USD	0.03

	365/11.05.2021 JINR Dubna Rusia - West University of Timisoara, Romania, Theme JINR code no. 04-5-1131-2017/2021	Cercetare Științifică **Responsabil**			
7.	Contract CNMP , Parteneriate, 2007-2010, *TEHNOLOGII INOVATIVE DE OBTINERE PRIN PULVERIZARE TERMICA A MICROSTRATURILOR COMPOZITE DE TIP CERMET ANTICOROZIVE SI ANTIUZARE*; director de proiect prof. dr. V. Șerban (Universitatea Politehnica Timișoara)	Responsabil	50000	10000 USD	0.10
8.	Proiect PCCDI: - Noi direcții de dezvoltare tehnologică și de utilizare a materialelor nanocompozite avansate 47PCCDI/2018, Acronim (Advance Nano) 2018-2020	Responsabil P2 (UVT)	430.000	100.000 USD	1.00
Punctaj total indicator **A_{10}**					**1.339**

- n_i^{ef} reprezintă numărul efectiv de autori al itemului *i* și ia următoarele valori:

$$n_i^{ef} = \begin{cases} n_i, & n_i \le 5 \\ (n_i + 5)/2, & 5 < n_i \le 15 \\ (n_i + 15)/3, & 15 < n_i \le 75 \\ (n_i + 45)/4, & n_i > 75 \end{cases}$$

n_i – numărul de autori ai publicației "*i*".

Punctaj total obținut pentru activitatea A: 0 + 0.583 + 0.75 + 3.625 + 0+ 0.5495 + 0 + 0 + 1 + 1.339

A= 7.8465

2. ACTIVITATEA DE CERCETARE

Indicatorul 2.1 – Articole științifice originale in extenso ca autor

Nr.	**Referința bibliografică (Autori, Titlul, Revista, Vol., anul, pag.$_{început}$-pag.$_{sfârșit}$)**	**AIS_i**	**n_i**	**n_i^{ef}**	**AIS_i/n_i^{ef}**
1	Alexandrina Teusdea, **I. Malaescu**, Paula Sfirloaga, C. N. Marin, *Electric and Dielectric Properties in Low-Frequency Fields of Composites Consisting of Silicone Rubber and Al Particles for Flexible Electronic Devices*, Materials, (2022) 15(6), 2309. https://doi.org/10.3390/ma15062309	**0.8**	**4**	**4**	**0.200**
2.	C. N. Marin, **I. Malaescu**, Paula Sfirloaga, Alexandrina Teusdea, *Electric and magnetic properties of a composite consisting of silicone rubber and ferrofluid*, Journal of Industrial and Engineering Chemistry 101 (2021) 405–413. https://doi.org/10.1016/j.jiec.2021.05.042	**0.6**	**4**	**4**	**0.150**
3	B. Ile, **I. Malaescu**, C. N. Marin, I. Marin, M. Spunei, S. Negru, *Dosimetric investigations of some composites consisting of metallic particles distributed in silicone rubber matrix*, Journal of Ovonic Research, Vol. 17, No. 2, March - April 2021, p. 217 – 223 https://www.chalcogen.ro/index.php/journals/journal-of-ovonic-research/12-jor/536-volume-17-number-2-march-april-2021	**0.100**	**6**	**5.5**	**0.018**
4.	Alexandrina Teusdea, P. C. Fannin, I. Malaescu, C. N. Marin, *The effect of a polarizing magnetic field on the dynamic properties and the specific absorption rate of a ferrofluid in the microwave range*, Soft Materials, (2021) DOI: 10.1080/1539445X.2021.1974475	**0.3**	**4**	**4**	**0.075**

	https://doi.org/10.1080/1539445X.2021.1974475				
5.	P. C. Fannin, O. M. Bunoiu, I. Malaescu, C. N. Marin, *Magnetically tuning microwave propagation parameters in ferrofluids*, Eur. Phys. J. E (2021) 44:83. https://doi.org/10.1140/epje/s10189-021-00087-w	**0.700**	**5**	**5**	**0.140**
6	C. N. Marin, **I. Malaescu**, *Experimental and theoretical investigations on thermal conductivity of a ferrofluid under the influence of magnetic field*, The European Physical Journal E, (2020) 43: 61. DOI 10.1140/epje/i2020-11986-3	**0.700**	**2**	**2**	**0.350**
7	O. M. Bunoiu, Georgeta Matu, C. N. Marin, **I. Malaescu**, *Investigation of some thermal parameters of ferrofluids in the presence of a static magnetic field*, Journal of Magnetism and Magnetic Materials, 498 (2020) 166132. https://doi.org/10.1016/j.jmmm.2019.166132	**0.500**	**4**	**4**	**0.125**
8	D. Lazič, **I. Malaescu**, O. M. Bunoiu, I. Marin, F. G. Popescu, V. Socoliuc, C.N. Marin, *Investigation of therapeutic-like irradiation effect on magnetic hyperthermia characteristics of a water-based ferrofluid with magnetite particles*, Journal of Magnetism and Magnetic Materials, 502 (2020) 166605. https://doi.org/10.1016/j.jmmm.2020.166605	**0.500**	**7**	**6**	**0.0833**
9	C. N. Marin, P. C. Fannin, **I. Malaescu**, Georgeta Matu, *Macroscopic and microscopic electrical properties of a ferrofluid in a low frequency field*, Physics Letters A, 384(30) (2020) 126786. https://doi.org/10.1016/j.physleta.2020.126786	**0.500**	**4**	**4**	**0.125**
10	Paula Sfirloaga, Gabriela Vlase, T. Vlase, **I. Malaescu**, C. N. Marin, Paulina Vlazan, *Silver doping in lanthanum manganite materials: structural and electrical properties*, Journal of Thermal Analysis and Calorimetry, 142 (2020) 1817–1823. https://doi.org/10.1007/s10973-020-10095-1	**0.200**	**6**	**5.5**	**0.0363**
11	Daniela Susan-Resiga, **I. Malaescu**, Oana Marinica, C. N. Marin, *Magnetorheological properties of a kerosene-based ferrofluid with magnetite particles hydrophobized in the absence of the dispersion medium*, Physica B: Physics of Condensed Matter, 587 (2020) 412150. http://www.elsevier.com/locate/physb	**0.300**	**4**	**4**	**0.0750**
12	Georgeta Matu, C. N. Marin, **I. Malaescu**, *Frequency and temperature analysis of the Clausius-Mossotti factor of a kerosene-based ferrofluid in low frequency field*, Journal of Ovonic Research, Vol. 16, No. 2, March - April 2020, p. 89 - 96 https://www.chalcogen.ro/index.php/journals/journal-of-ovonic-research/12-jor/507-volume-13-number-2-march-april-2020	**0.100**	**3**	**3**	**0.0333**
13	M. Stoia, C. Pacurariu, C. Mihali, **I. Malaescu**, C. N. Marin, A. Capraru, *Manganese ferrite-polyaniline hybrid materials: Electrical and magnetic properties*, Ceramics International, 45(2) (2019) 2725-2735	**0.500**	**6**	**5.5**	**0.0909**
14	P. Sfirloaga, **I. Malaescu**, C.N. Marin, P. Vlazan, *The effect of partial substitution of Pd in $LaMnO_3$ polycrystalline materials synthesized by sol-gel technique on the electrical performance*, Journal of Sol-gel Science and Technology, 92 (3) (2019) 537-545, DOI: 10.1007/s10971-019-05102-3	**0.300**	**4**	**4**	**0.0750**
15	S. Brindusoiu, M. Poienar, C.N. Marin, P. Sfirloaga, P. Vlazan, **I. Malaescu**, *The electrical conductivity of $Fe_3(PO_4)_2{\cdot}8H_2O$ materials*, Journal of Materials Science: Materials in Electronics, 30(16) (2019) 15693-15699,	**0.200**	**6**	**6**	**0.0333**
16	T.A. Albu, **I. Malaescu**, Alterations of contralateral white matter in glioma and meningioma patients: a numerical diffusion-weighted imaging approach, INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL MEDICINE, 12(3) (2019) 2575-2582	**0.200**	**2**	**2**	**0.100**
17	**I. Malaescu**, A. Lungu, C. N. Marin, P. Sfirloaga, P. Vlazan, S. Brindusoiu, M. Poienar, *Temperature dependence of the dynamic electrical properties of Cu1+xMn1-xO2 (x=0 and 0.06) crednerite materials*, CERAMICS INTERNATIONAL, 44 (10) (2018) 11610-11616, **DOI:** 10.1016/j.ceramint.2018.03.229	0.500	7	4.8	0.10416
18	P. Sfirloaga, M. Poienar, **I. Malaescu**, A. Lungu, P. Vlazan, *Perovskite type lanthanum manganite: Morpho-structural analysis and electrical investigations*, JOURNAL OF RARE EARTHS, 36 (5) (2018) 499-504, **DOI:** 10.1016/j.jre.2017.10.009	0.310	5	5	0.062

19	P. Sfirloaga, M. Poienar, **I. Malaescu**, A. Lungu, C. V. Mihali, P. Vlazan, *Electrical conductivity of Ca-substituted lanthanum manganites*, CERAMICS INTERNATIONAL, 44 (6) (2018) 5823-5828, **DOI:** 10.1016/j.ceramint.2018.01.029	0.500	6	4.4	0.11363
20	**I. Malaescu**, P. C. Fannin, C. N. Marin, D. Lazic, *The concept of ferrofluid preheating in the treatment of cancer by magnetic hyperthermia of tissues*, MEDICAL HYPOTHESES, 110, (2018) 76-79, **DOI:** 10.1016/j.mehy.2017.11.004	0.300	4	4	0.0750
21	P. C. Fannin, C. N. Marin, **I. Malaescu**, K. Raj, C. Popoiu, *Local arrangement of particles in magnetic fluids due to the measurement alternating field*, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, 438 (2017) 116-120, **DOI:** 10.1016/j.jmmm.2017.02.053	0.500	5	5	0.100
22	P. C. Fannin, L. Vekas, C. N. Marin, **I. Malaescu**, *On the determination of the dynamic properties of a transformer oil based ferrofluid in the frequency range 0.1–20GHz*, Journal of Magnetism and Magnetic Materials 423 (2017) 61-65.	0.500	4	4	0.1250
23	P. Sfirloaga, C. N. Marin, **I. Malaescu**, P. Vlazan, *The electrical performance of ceramic mateials with perovskite structure doped with metallic ions*, Ceramics International Vol. 42, Nr.16 (2016) 18960-18964	0.500	4	4	0.1250
24	P. Sfirloaga, **I. Malaescu**, M. Poienar, M.C. Nicolae, D. Malaescu, P. Vlazan, *Synthesis, structural and electrical properties of NaTaO3:Cu*, J. Mater. Sci.: Mater. Electron., Vol. 27, Nr. 11 (2016) 11640-11645	0.200	6	4.4	0.04545
25	**I. Malaescu**, A. Lungu, C. N. Marin, P. Vlazan, P. Sfirloaga, G. M. Turi, *Experimental investigations of the structural transformations induced by the heat treatment in manganese ferrite synthesized by ultrasonic assisted co-precipitation method*, Ceramics International 42 (15) (2016) 16744-16748.	0.500	6	4.4	0.11363
26	Q. Li, P. C. Fannin, C. N. Marin, **I. Malaescu**, K. Raj, *On the utility of low frequency, polarised, complex susceptibility measurements in the investigation of the dynamic properties of magnetic fluids*, Journal of Molecular Liquids, 219 (2016) 773-779	0.500	5	5	0.100
27	C.N. Marin, P.C. Fannin, **I. Malaescu**, *Time solved susceptibility spectra of magnetic fluids*, Journal of Magnetism and Magnetic Materials 388 (2015) 45-48	0.500	3	3	0.1666
28	P. Sfirloaga, I. Miron, **I. Malaescu**, C.N. Marin, C. Ianasi, P. Vlazan, *Structural and physical properties of undoped and Ag-doped NaTaO3 synthesized at low temperature*, Materials Science in Semiconductor Processing 39 (2015) 721-725	0.450	6	4.4	0.10227
29	A. Lungu, **I. Malaescu**, C. N. Marin, P. Vlăzan, P. Sfirloaga, *The electrical properties of manganese ferrite powders prepared by two different methods*, Physica B: Condensed Matter, 462 (2015) 80-85.	*0.3239*	5	5	0.06478
30	C. N. Marin, **I. Malaescu**, P. C. Fannin, *Theoretical evaluation of the heating rate of ferrofluids*, Journal of Thermal Analysis and Calorimetry 119 issue 2 (2015) 1199-1203 DOI 10.1007/s10973-014-4224-2	*0.2395*	3	3	0.07983
31	**I. Malaescu**, C. N. Marin, Marius Spunei, Comparative Study on the Surface Dose of Some Bolus Materials, International Journal of Medical Physics, Clinical Engineering and Radiation Oncology, 4 (2015) 348-352	0	3	3	0.000
32	M. Spunei, **I. Malaescu**, M. Mihai and C. N. Marin, *Absorbing materials with applications in radiotherapy and radioprotection*, Radiation Protection Dosimetry, 162 (1-2) (2014) 167-170, doi:10.1093/rpd/ncu252	*0.3047*	4	4	0.07617
33	R. Giugiulan, **I. Malaescu**, M. Lungu, N. Strambeanu, "*The Clausius-Mossotti factor in low frequency field of the powders resulted from wasted combustion*", Rom. Journal of Phys., 59, n0. 7-8 (2014) 862-872	*0.0931*	4	4	0.02327
34	R. Totoreanu, **I. Malaescu,** "*Low frequency dielectric behaviour of near surface cohesive soils*", Rom. Rep. in Phys., 66, no. 3 (2014) 801-811	*0.1493*	2	2	0.07465
35	M. Mihai, M. Spunei, **I. Malaescu**, "*Experimental results in percentage depth dose (PDD) determination at the extended distances*", Rom. Rep. in Phys., 66, no. 1 (2014) 157-165	*0.1493*	3	3	0.04976

36	M. Mihai, M. Spunei, **I. Malaescu**, "*Comparison features for proton and heavy ion beams versus photon and electron beams*", Rom. Rep. in Phys., 66, no. 1 (2014) 212-222	*0.1493*	3	3	0.04976
37	C. N. Marin, **I. Malaescu**, A. Savici, *Investigation of the low frequency polarization mechanisms in magnetic fluids*, ACTA PHYSICA POLONICA A, Vol. 124, No. 4, (2013) 724 – 727	*0.1121*	3	3	0.03736
38	S. Novaconi, P. Vlazan, **I. Malaescu**, P. Sfirloaga, R. Badea, "*Doped Bi2Te3 nanostructured semiconductors obtained by ultrasonically hydrothermal method*", Central European Journal of Chemistry, 11, no. 10 (2013) 1599-1605	*0.2582*	5	5	0.05164
39	Cecilia N. Obeada, **I. Malaescu**, "*The temperature effect on the combined Brownian and Neel relaxation processes in a water-based magnetic fluid*", Physica B-Condensed Matter, 424 (2013) 69-72	*0.3239*	2	2	0.16195
40	C. N. Marin, P.C. Fannin, **I. Mălăescu**, P. Barvinschi, A. Ercuța, "*Intra-well relaxation process in magnetic fluids subjected to strong polarising fields*", Journal of Magnetism and Magnetic Materials 324 (4) 434 - 439 (2012)	*0.4763*	5	5	0.09526
41	P.C. Fannin, C. N. Marin, **I. Malaescu**, N. Stefu, P. Vlazan, S. Novaconi, P. Sfirloaga, S. Popescu, C. Couper, "*Microwave absorbent properties of nanosized cobalt ferrite powders prepared by coprecipitation and subjected to different thermal treatments*", Materials and Design 32 1600–1604 (2011)	*0.6496*	9	5.6	0.116
42	P. C. Fannin, C. N. Marin, **I. Malaescu**, N. Stefu, P. Vlăzan, S. Novaconi, S. Popescu, "*Effect of the concentration of precursors on the microwave absorbent properties of Zn/Fe oxide nanopowders*", Journal of Nanoparticle Research, 13 311–319 (2011)	*0.9309*	7	4.8	0.1939
43	P.C.Fannin, **I. Malaescu**, C. N. Marin, N. Stefu, *Microwave propagation parameters in magnetic* fluids, The European Physical Journal E, 29 (3) 299-303 (2009	*0.8553*	4	4	0.21382
44	P.C. Fannin, **I. Malaescu**, C.N. Marin, N. Stefu, "*Microwave specific loss power of magnetic fluids subjected to a static magnetic field*", Eur. Phys. J. E 27 (2008) 145–148	*0.8553*	4	4	0.21382
45	P. C. Fannin, C. N. Marin, **I. Malaescu**, N. Stefu "*Microwave dielectric properties of magnetite colloidal particles in magnetic fluids*", J. Phys.: Condensed Matter, 19 (2007) 036104-036111.	*1.0117*	4	4	0.25292
46	P. C. Fannin, C. Mac Oireachtaigh, **I. Malaescu**, C. N. Marin "*Investigation of magnetic fluids exhibiting field induced absorption peaks in the susceptibility spectra*", Journal of Optoelectronics and Advanced Materials, Vol. 8, No. 1, (2006), 46 – 49.	*0.1894*	4	4	0.04735
47.	**I.Mălăescu**, C.N.Marin, „*Study of magnetic fluids by means of magnetic spectroscopy*", Physica B: Condensed Matter, 365 (2005) 134 – 140.	*0.3239*	2	2	0.16195
48.	P.C.Fannin, **I.Mălăescu**, C.N.Marin, "*The effective anisotropy constant of particles within magnetic fluids as measured by magnetic resonance"*, J.Magn.Magn.Mater. 289 (2005) 162-164.	*0.495*	3	3	0.165
49,	P.C.Fannin, C.N.Marin, **I.Mălăescu**, A.T.Giannitsis, "*Microwave absorption of composite magnetic fluids"*, J.Magn.Magn.Mater. 289 (2005) 78-80.	*0.495*	4	4	0.12375
50.	C. N. Marin, **I. Malaescu**, "*The Influence of Particle Agglomeration of the Affective Anisotropy Constant of Particles within Magnetic Fluids as Studied by Magnetic Resonance*", Rom. Journal of Phys., Vol. 50, Nos. 7–8 (2005) 785–793	*0.1013*	2	2	0.05065
51.	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.	*1.0117*	3	3	0.33723
52.	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, no. 1 (2003) 227 - 231	*0.1894*	3	3	0.06313
53.	**I.Mălăescu**, „*A new method for determination of the effective anisotropy constant of the particles within ferrofluids*", Journal of Optoelectronics and Advanced Materials, 5, no. 1 (2003) 233 - 237.	*0.1894*	1	1	*0.1894*
54.	**I.Mălăescu**, C.N.Marin, "*Dielectric behavior of some ferrofluids in low-frequency fields*", Journal of Colloid and Interface Science 251 (2002) 73-77	*0.7665*	2	2	0.38325
55.	**I.Mălăescu**, C.N.Marin, "*Dependence on the temperature of the activation*	*0.698*	2	2	0.34905

	energy in the dielectric relaxation processes for ferrofluids in low-frequency field", J. Magn. Magn. Mater 252 (2002) 68-70.	*1*			
56.	**I. Malaescu**, N. Stefu, L. Gabor, "*Relaxation processes and ferromagnetic resonance investigation of ferrofluids with Mn-Zn and Mn-Fe mixed ferrite particles*", J. Magn. Magn. Mater., 234 no. 2 (2001) 299-305.	*0.7468*	3	3	0.24893
57.	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.	*0.9003*	3	3	0.3001
58.	**I. Malaescu**, L. Gabor, F. Claici, N. Stefu, "*Study of some magnetic properties of ferrofluids filtered in magnetic field gradient*", J. Magn. Magn. Mater., 222 no. 1-2 (2000) 8-12	*0.6245*	4	4	0.15612
59.	**I.Mălăescu**, C.N.Marin, "*Deviation from the superparamagnetic behaviour of fine-particle systems*", J. Magn. Magn. Mater 218 (2000) 91-96.	*0.6245*	4	4	0.15612
60.	I.Hrianca, **I.Mălăescu**, F.Claici, C.N.Marin, "*The influence of particles concentration in ferrofluids on the broadening of the magnetic resonance line*", J. Magn. Magn. Mater 201 no.1-3 (1999) 126-128.	*0.6422*	4	4	0.16055
61.	**I. Malaescu**, I.Hrianca, L. Gabor, "*Study of certain magnetite and mix ferrite magnetic liquids in static and radiofrequency fields*", Journal de Physique IV, 7, no. C1 (1997) 563-564	*0.1623*	3	3	0.0541
62.	L. Gabor, **I. Malaescu**, "*Research on magnetic liquids filtration*", Rev. de Chimie, 47, no. 12 (1996) 1157-1160.	*0.0227*	2	2	0.01135
63.	**I. Mălăescu**, I.Hrianca, "*Relaxation processes of magnetite-based ferrofluids in rf magnetic fields*", J. Magn. Magn. Mater., 157 (1996) 585-586.	*0.6057*	2	2	0.30285
64.	I.Hrianca, **I.Mălăescu**, "*The RF magnetic permeability of staticaly magnetized ferrofluids*", J. Magn. Magn. Mater., 150 no.1 (1995) 131-136.	*0.6057*	2	2	0.30285
Punctaj total indicator 2.1					**I=8.04646**

Formula de calcul $I = \sum_{i=1}^{n} \frac{AIS_i}{n_i^{ef}}$,unde:

- AIS_i – scorul de influenţă absolut al revistei științifice în care a fost publicat articolul *i*, corespunzător anului de publicare al acestuia conform cu www.eigenfactor.org pentru articolele publicate până în 2006 și Journal Citation Report (ISI Web of Science) începând cu anul 2007
- n_i^{ef} reprezintă numărul efectiv de autori al itemului *i* și ia următoarele valori:

$$n_i^{ef} = \begin{cases} n_i, & n_i \le 5 \\ (n_i + 5)/2, & 5 < n_i \le 15 \\ (n_i + 15)/3, & 15 < n_i \le 75 \\ (n_i + 45)/4, & n_i > 75 \end{cases}$$

n_i – numărul de autori ai publicaţiei "*i*".

Indicatorul 2.2 – Articole științifice originale in extenso ca prim autor sau autor corespondent, conform menţiunilor de pe articol

Nr.	**Referinţa bibliografică** (Autori, Titlul, Revista, Vol., anul, pag.$_{\text{inceput}}$-pag.$_{\text{sfârsit}}$)	a_i
1	C. N. Marin, **I. Malaescu**, Paula Sfirloaga, Alexandrina Teusdea, *Electric and magnetic properties of a composite consisting of silicone rubber and ferrofluid*, Journal of Industrial and Engineering Chemistry 101 (2021) 405–413. https://doi.org/10.1016/j.jiec.2021.05.042	0.600
2	B. Ile, **I. Malaescu**, C. N. Marin, I. Marin, M. Spunei, S. Negru, *Dosimetric investigations of some composites consisting of metallic particles distributed in silicone rubber matrix*, Journal of Ovonic Research, Vol. 17, No. 2, March - April 2021, p. 217 – 223 https://www.chalcogen.ro/index.php/journals/journal-of-ovonic-research/12-jor/536-volume-17-number-2-march-april-2021	0.100
3	C. N. Marin, **I. Malaescu**, *Experimental and theoretical*	

	investigations on thermal conductivity of a ferrofluid under the influence of magnetic field, The European Physical Journal E, (2020) 43: 61. DOI 10.1140/epje/i2020-11986-3	0.700
4	O. M. Bunoiu, Georgeta Matu, C. N. Marin, **I. Malaescu**, *Investigation of some thermal parameters of ferrofluids in the presence of a static magnetic field*, Journal of Magnetism and Magnetic Materials, 498 (2020) 166132. https://doi.org/10.1016/j.jmmm.2019.166132	0.500
5	C. N. Marin, P. C. Fannin, **I. Malaescu**, Georgeta Matu, *Macroscopic and microscopic electrical properties of a ferrofluid in a low frequency field*, Physics Letters A, 384(30) (2020) 126786. https://doi.org/10.1016/j.physleta.2020.126786	0.500
6	Georgeta Matu, C. N. Marin, **I. Malaescu**, *Frequency and temperature analysis of the Clausius-Mossotti factor of a kerosene-based ferrofluid in low frequency field*, Journal of Ovonic Research, Vol. 16, No. 2, March - April 2020, p. 89 - 96 https://www.chalcogen.ro/index.php/journals/journal-of-ovonic-research/12-jor/507-volume-13-number-2-march-april-2020	0.100
7	S. Brindusoiu, M. Poienar, C.N. Marin, P. Sfirloaga, P. Vlazan, **I. Malaescu**, *The electrical conductivity of $Fe_3(PO_4)_2{\cdot}8H_2O$ materials*, Journal of Materials Science: Materials in Electronics, 30(16) (2019) 15693-15699,	0.200
8	**I. Malaescu**, A. Lungu, C. N. Marin, P. Sfirloaga, P. Vlazan, S. Brindusoiu, M. Poienar, *Temperature dependence of the dynamic electrical properties of Cu1+xMn1-xO2 (x=0 and 0.06) crednerite materials*, CERAMICS INTERNATIONAL, 44 (10) (2018) 11610-11616, **DOI:** 10.1016/j.ceramint.2018.03.229	0.500
9.	P. Sfirloaga, M. Poienar, **I. Malaescu**, A. Lungu, C. V. Mihali, P. Vlazan, *Electrical conductivity of Ca-substituted lanthanum manganites*, CERAMICS INTERNATIONAL, 44 (6) (2018) 5823-5828, **DOI:** 10.1016/j.ceramint.2018.01.029	0.500
10.	**I. Malaescu**, P. C. Fannin, C. N. Marin, D. Lazic, *The concept of ferrofluid preheating in the treatment of cancer by magnetic hyperthermia of tissues*, MEDICAL HYPOTHESES, 110, (2018) 76-79, **DOI:** 10.1016/j.mehy.2017.11.004	0.300
11	**I. Malaescu**, A. Lungu, C. N. Marin, P. Vlazan, P. Sfirloaga, G. M. Turi, *Experimental investigations of the structural transformations induced by the heat treatment in manganese ferrite synthesized by ultrasonic assisted co-precipitation method*, Ceramics International 42 (15) (2016) 16744-16748.	0.500
12	A. Lungu, **I. Malaescu**, C. N. Marin, P. Vlazan, P. Sfirloaga, *The electrical properties of manganese ferrite powders prepared by two different methods*, Physica B: Condensed Matter, **462**, (2015) 80-85	*0.3239*
13	C. N. Marin, **I. Malaescu**, P. C. Fannin, *Theoretical evaluation of the heating rate of ferrofluids*, Journal of Thermal Analysis and Calorimetry, doi.1007/s10973-014-4224-2 (2015)	*0.2395*
14	R. Totoreanu. **I. Malaescu**, *Low frequency dielectric behavior of near surface cohesive soils*, Rom. Rep. in Phys., 66 (3), (2014) 801-811	*0.1493*
15	M. Spunei, **I. Malaescu**, Maria Mihai, C. N. Marin, *Absorbing materials with applications in radiotherapy and*	*0.3047*

	radioprotection, Radiation Protection Dosimetry, 162 (1-2) (2014) 167-170	
16	Maria Mihai, M. Spunei, **I. Malaescu**, *for proton and heavy ion beams versus proton and electron beams*, Rom. Rep. in Phys., 66 (1), (2014) 212-222	*0.1493*
17.	M. Spunei, Maria Mihai, **I. Malaescu**, *Experimental results in percentage depth dose (PDD) determination in the extended distances*, Rom. Rep. in Phys., 66 (1), (2014) 157-165	*0.1493*
18.	R. Giugiulan, **I. Malaescu**, M. Lungu, N. Strambeanu, *The Claussius-Mossotti factor in low-frequency field of the powders resulted from wastes combustion*, Rom. J. of Phys., **59** (7-8), (2014), 862-872	*0.0931*
19.	S. Novaconi, P. Vlazan, **I. Malaescu**, I. Grozescu, P. Sfirloaga, *Doped Bi2Te3 nano-structured Semiconductors obtained by ultrasonically assisted hidrotermal method*, Central European Journal of Chemistry, **11(10)**, (2013) 1599-1605	*0.2582*
20.	C.N. Obeada, **I. Malaescu**, *The temperature effect on the combined Brownian and Neel relaxation processes in a water-based magnetic fluid*, Physica B: Condensed Matter, **424**, (2013) 69-72	*0.3239*
21.	C. N. Marin, **I. Malaescu**, A. Savici, *Investigation of the low frequency polarization mechanisms in magnetic fluids*, Acta Physica Polonica A, Vol. **124**, No. 4, (2013) 724 – 727	*0.1121*
22.	C. N. Marin, P.C. Fannin, **I. Mălăescu**, P. Barvinschi, A. Ercuţa, "*Intra-well relaxation process in magnetic fluids subjected to strong polarising fields*", Journal of Magnetism and Magnetic Materials **324** (4) 434 - 439 (2012)	*0.4763*
23.	P.C. Fannin, C. N. Marin, **I. Malaescu**, N. Stefu, P. Vlazan, S. Novaconi, P. Sfirloaga, S. Popescu, C. Couper, "*Microwave absorbent properties of nanosized cobalt ferrite powders prepared by coprecipitation and subjected to different thermal treatments*", Materials and Design **32** 1600–1604 (2011)	*0.6496*
24.	P. C. Fannin, C. N. Marin, **I. Malaescu**, N. Stefu, P. Vlăzan, S. Novaconi, S. Popescu, "*Effect of the concentration of precursors on the microwave absorbent properties of Zn/Fe oxide nanopowders*", Journal of Nanoparticle Research, 13 311–319 (2011)	*0.9309*
25.	P.C.Fannin, **I. Malaescu**, C. N. Marin, N. Stefu, *Microwave propagation parameters in magnetic* fluids, European Physical Journal E, **29** (3) 299-303 (2009)	*0.8553*
26.	P.C. Fannin, **I. Malaescu**, C.N. Marin, N. Stefu, "*Microwave specific loss power of magnetic fluids subjected to a static magnetic field*", Eur. Phys. J. E 27 (2008) 145–148.	*0.8553*
27.	P. C. Fannin, **I. Malaescu**, C. N. Marin, "*Determination of the Landau-Lifshitz damping parameter of composite magnetic fluids*", Physica B: Condensed Matter, 388 (2007) 93–98.	*0.3186*
28.	P.C.Fannin, C.N.Marin, **I. Malaescu**, N.Stefu, "*An investigation of the microscopic and macroscopic properties of magnetic fluids*", Physica B: Condensed Matter, 388 (2007) 87–92.	*0.3186*
29.	P. C. Fannin, C. N. Marin, **I. Malaescu**, N. Stefu **"***Microwave dielectric properties of magnetite colloidal particles in magnetic fluids*", J. Phys.: Condensed Matter, 19 (2007) 036104-036111.	*1.0117*

30.	P. C. Fannin, C. Mac Oireachtaigh, **I. Malaescu**, C. N. Marin "*Investigation of magnetic fluids exhibiting field induced absorption peaks in the susceptibility spectra*", Journal of Optoelectronics and Advanced Materials, Vol. 8, No. 1, (2006), 46 – 49.	*0.1304*
31.	**I.Mălăescu**, C.N.Marin, „*Study of magnetic fluids by means of magnetic spectroscopy*", Physica B: Condensed Matter, 365 (2005) 134 – 140.	*0.3354*
32.	P.C.Fannin, **I.Mălăescu**, C.N.Marin, "*The effective anisotropy constant of particles within magnetic fluids as measured by magnetic resonance"*, J.Magn.Magn.Mater. 289 (2005) 162-164.	*0.495*
33.	P.C.Fannin, C.N.Marin, **I.Mălăescu**, A.T.Giannitsis, "*Microwave absorption of composite magnetic fluids"*, J.Magn.Magn.Mater. 289 (2005) 78-80.	*0.495*
34.	C. N. Marin, **I. Malaescu**, "*The Influence of Particle Agglomeration of the Affective Anisotropy Constant of Particles within Magnetic Fluids as Studied by Magnetic Resonance*", Rom. Journal Phys., Vol. 50, Nos. 7–8 (2005) 785–793	*0.1013*
35.	P. C. Fannin, C. N. Marin, **I. Malaescu**, *"The influence of particle concentration and polarizing field on the resonant behaviour of magnetic fluids"*, J. Phys.: Condens Matter., 15, 4739-4750, (2003)	*1.0117*
36.	**I. Malaescu,** *"A new method for determination of the effective anisotropy constant of the particles within ferrofluids*", Journal of Optoelectronics and Advanced Materials, Vol. 5, no. 1, March, 233-237, (2003)	*0.1894*
37.	C. N. Marin, **I. Malaescu**, V. Socoliuc, *"Study of the interparticle magnetic interaction effect on magnetic resonance line in ferrofluids"*, Journal of Optoelectronics and Advanced Materials, Vol. 5, no. 1, March, 227-231, (2003)	*0.1894*
38.	**I.Malaescu**, C.N.Marin, "*Dependence on temperature of the activation energy in the dielectric relaxation processes for ferrofluids in low frequency field*", J. Magn. Magn. Mater. 252C, 68-70, (2002)	*0.6981*
39.	**I.Malaescu**, C.N.Marin, "*Dielectric behavior of some ferrofluids in low-frequency fields*", J. Colloid and Interf. Sci., 251, 73-77, (2002)	*0.7665*
40.	**I.Malaescu**, N.Stefu, L.Gabor, "*Relaxation process and ferromagnetic resonance investigation of ferrofluids with Mn-Zn and Mn-Fe mixed ferrite particles*", J. Magn. Magn. Mater. 234 (2), 299-305, (2001)	*0.7468*
41.	C.N.Marin, **I.Malaescu**, A.Ercuta, "*The dependence of the effective anisotropy constant on particle concentration within ferrofluids, measured by magnetic resonance*", J. Phys.D: Appl. Phys., 34 (10), 1466-1469, (2001)	*0.9003*
42.	**I.Malaescu**, L.Gabor, F.Claici, N.Stefu, "*Study of some magnetic properties of ferrofluids filtered in magnetic field gradient*", J. Magn. Magn. Mater. 222 (1-2), 8-12, (2000)	*0.6245*
43.	**I. Malaescu**, C.N.Marin, "*Deviation from the superparamagnetic behaviour of fine-particle systems*", J. Magn. Magn. Mater. 218 (1), 91-96, (2000)	*0.6245*
44.	I. Hrianca, **I. Malaescu**, F. Claici, N. Marin, "*The influence of Particles Concentration in Ferrofluids on the Broadening of the Magnetic Resonance Line*", J. Magn. Magn. Mater., 201, 126-128, (1999)	*0.6422*
45.	**I.Malaescu**, I.Hrianca, L. Gabor, "*Study of certain magnetite and mix ferrite magnetic liquids in static and radiofrequency fields*", J. de Physique IV France, 7, 563 –	*0.1623*

	584, (1997)	
46.	L.Gabor, **I.Malaescu**, "*Research on magnetic liquids filtration*", Rev. Chim.-Bucharest, 47, 12, 1157-1160, (1996)	*0.0227*
47.	**I.Malaescu**, I.Hrianca, "*Relaxation Processes of Magnetite-Based Ferrofluids in RF Magnetic Field*", J. Magn. Magn. Mater. 157/158, 585-586, (1996)	*0.6057*
48.	I.Hrianca , **I.Malaescu**, "*The RF Magnetic Permeability of Statically Magnetized Ferrofluids* ", J. Magn. Magn. Mater. 150, 131-136, (1995)	*0.6057*
Punctaj total indicator 2.1		**P = 21.3665**

Formula de calcul pentru indicatorul 2.2: $P = \sum_i AIS_i$,

AIS_i – scorul de influenţă absolut al revistei ştiinţifice în care a fost publicat articolul *i*, corespunzător anului de publicare al acestuia conform cu www.eigenfactor.org pentru articolele publicate până în 2006 și Journal Citation Report (ISI Web of Science) începând cu anul 2007

3. RECUNOAȘTEREA IMPACTULUI ACTIVITĂȚII

Indicatorul 3.1 – Citări în reviste ştiinţifice cu factor de impact care se regăsesc în InCites Journal Citation Reports sau în cărți în edituri recunoscute Web of Science

I. Lucrarea,
I. Hrianca, **I. Malaescu**, *THE RF MAGNETIC-PERMEABILITY OF STATICALLY MAGNETIZED FERROFLUIDS,* Journal of Magnetism and Magnetic Materials, 150:1 (1995) 131-136

25/2=12.5

1
Advances in controlled release of microcapsules and promising applications in self-healing of asphalt materials
Lu, T; Li, B; (...); Sun, GQ
JOURNAL OF CLEANER PRODUCTION, vol. 294, Published Apr 2021 | Feb 2021

2.
A Radiating System for Low-Frequency Highly Focused Hyperthermia With Magnetic Nanoparticles

Brizi, D; Fontana, N; (...); Monorchio, A IEEE JOURNAL OF ELECTROMAGNETICS RF AND MICROWAVES IN MEDICINE AND BIOLOGY, 4 (2) , pp.109-116 Published Jun 2020

3
A Novel Approach for Determining the Electromagnetic Properties of a Colloidal Fluid With Magnetic Nanoparticles for Hyperthermia Applications
Brizi, D; Fontana, N; (...); Monorchio, A
IEEE JOURNAL OF ELECTROMAGNETICS RF AND MICROWAVES IN MEDICINE AND BIOLOGY 2 (1) , pp.70-77 Published Mar 2018

4.
Structural, optical and vibrational study of zinc copper ferrite nanocomposite prepared by exploding wire technique
By: Singh, Surendra; Sahai, Anshuman; Katyal, S. C.; et al.
MATERIALS SCIENCE-POLAND Volume: 36 Issue: 4 Pages: 722-732 Published: DEC 2018

5.
Magnetoimpedance in Samples With Patterned Surfaces for the Detection of Magnetic Particles and Ferrofluids
By: Garcia-Arribas, Alfredo; Goiriena-Goikoetxea, Maite; Fernandez, Eduardo; et al.
Conference: IEEE International Magnetics Conference (Intermag) Location: Dublin, IRELAND Date: APR 24-28, 2017 Sponsor(s): IEEE
IEEE TRANSACTIONS ON MAGNETICS Volume: 53 Issue: 11 Article Number: 4003106 Published: NOV 2017

6.
Investigations of superparamagnetism in magnesium ferrite nano-sphere synthesized by ultrasonic spray pyrolysis technique for hyperthermia application
By: Das, Harinarayan; Sakamoto, Naonori; Aono, Hiromichi; et al.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 392 Pages: 91-100 Published: OCT 15 2015

7.
Quasi-One-Dimensional Assembly of Magnetic Nanoparticles Induced by a 50 Hz Alternating Magnetic Field
By: Zhang, Weixin; Sun, Jianfei; Bai, Tingting; et al.
CHEMPHYSCHEM Volume: 11 Issue: 9 Pages: 1867-1870 Published: JUN 21 2010

8.
Determination of the effective magnetic anisotropy constant of ferrite nanoparticles dispersed in organic matrix
By: Mihaela, Osaci
INDIAN JOURNAL OF PHYSICS AND PROCEEDINGS OF THE INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE Volume: 82 Issue: 12 Pages: 1671-1679 Published: DEC 2008

9.
Coupling of magnetostriction and electrostriction in the porous rheological composite
By: Bednarek, Stanislaw
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 320 Issue: 15 Pages: 2015-2021 Published: AUG 2008

10.
On the possibility to achieve population inversion in a magnetic nanoparticle system
By: Hrianca, Ioan
PHYSICA B-CONDENSED MATTER Volume: 403 Issue: 10-11 Pages: 1831-1837 Published: MAY 1 2008

11.
Nanosized magnetite for biomedical applications
By: Nedkov, I.
Conference: 14th International School on Condensed Matter Physics Varna, BULGARIA SEP 17-22, 2006, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 9 Issue: 1 Pages: 24-29 Published: JAN 2007

12.
Giant electro- and magnetostriction of the porous electromagnetorheological composite
By: Bednarek, Stanislaw
PRZEGLAD ELEKTROTECHNICZNY Volume: 83 Issue: 10 Pages: 23-27 Published: 2007

13.
Biological and thermic effects of magnetic fluids for photodynamic therapy and hyperthermia
By: Park, S. I.; Hwang, Y. H.; Lim, J. H.; et al.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 304 Issue: 1 Pages: E403-E405 Published: SEP 2006

14.
Superparamagnetic behaviour of nanocrystalline Ni-Zn, Zn-Mn and Ni-Mn ferrites processed by reverse micelle method
By: Kale, A; Nathani, H; Srivastava, RS; et al.
MATERIALS SCIENCE AND TECHNOLOGY Volume: 20 Issue: 8 Pages: 999-1005 Published: AUG 2004

15.
Magnetic properties of nanocrystalline Ni-Zn, Zn-Mn, and Ni-Mn ferrites synthesized by reverse micelle technique
By: Gubbala, S; Nathani, H; Koizol, K; et al.
PHYSICA B-CONDENSED MATTER Volume: 348 Issue: 1-4 Pages: 317-328 Published: MAY 1 2004

16.
Size dependence of specific power absorption of Fe3O4 particles in AC magnetic field
By: Ma, M; Wu, Y; Zhou, H; et al.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 268 Issue: 1-2 Pages: 33-39 Published: JAN 2004

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Observation of room temperature multiferroic and electrical properties in gadolinium ferrite nanoparticles
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7.
Pulse Electroplating of Ultra-Fine Grained Zinc Coating on 316L Stainless Steel and its Corrosion Behaviour
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By: Dang, N. T.; Zakhvalinskii, V. S.; Kozlenko, D. P.; et al.
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New functional hybrid materials based on clay minerals for enhanced electrocatalytic activity
Taranu, BO; Vlazan, P; (...); Sfirloaga, P
JOURNAL OF ALLOYS AND COMPOUNDS 892, Published Feb 2022

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A-site defects in LaSrMnO3 perovskite-based catalyst promoting NOx storage and reduction for lean-burn exhausts
Zhao, DY; Yang, YX; (...); Li, XG
JOURNAL OF RARE EARTHS 39 (8) , pp.959-968, Published Aug 2021

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Investigation of physico-chemical features of lanthanum manganite with nitrogen addition
By: Sfirloaga, Paula; Sebarchievici, Iuliana; Taranu, Bogdan; et al.
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Production of aryl oxygen-containing compounds by catalytic pyrolysis of bagasse lignin over LaTi0.2Fe0.8O3 prepared by different methods
By: Wang, Haiying; Han, Hongjing; Sun, Enhao; et al.
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A-site ordered state in manganites with perovskite-like structure based on optimally doped compounds Ln(0.70)Ba(0.30)MnO(3) (Ln = Pr, Nd)
By: Trukhanov, S., V; Khomchenko, V. A.; Karpinsky, D., V; et al.
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Layered Cu1-zMn1+zO2 Crednerite: Mapping the Phase Stabilization Region via Precise Compositional Control for Optimum Supercapacitor Performance
Fu, SX; Liang, B; (...); Li, GS
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Development of a new "n-p" heterojunction based on TiO2 and CuMnO2 synergy materials
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Effect of long intergenic non-coding RNA 00312 on regulating biological behaviors of glioma cells by targeting microRNA-21-3p
Lei, J and Zhou, Z
INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL MEDICINE 14 (2) , pp.852-863, 2021

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Apparent Diffusion Coefficient Value of Normal Brain in Relation to Age and Gender in Adults

By:Mohammed, NA (Mohammed, Naser Abdulla)[1]; Abdullah, DHS (Abdullah, Dashny Hama Salih)[2]
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Published: JAN-FEB 2020

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M. Stoia, C. Pacurariu, C. Mihali, **I. Malaescu**, C. N. Marin, A. Capraru, *Manganese ferrite-polyaniline hybrid materials: Electrical and magnetic properties*, Ceramics International, 45(2) (2019) 2725-2735

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Antibacterial activity of PANI coated CoFe2O4 nanocomposite for gram-positive and gram-negative bacterial strains
Vishwakarma, AK; Sen Yadav, B; (...); Kumar, N
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A review: electrical and gas sensing properties of polyaniline/ferrite nanocomposites
Ramakrishnaiah, T; Dhananjaya, PG; (...); Surendranatha, NC
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Structural, Dielectric and Electric Modulus Studies of MnFe2O4/(MWCNTs)(x) Nanocomposites
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Characterization and property of magnetic ferrite ceramics with interesting multilayer structure prepared by solid-state reaction
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Synthesis and physical properties of spinel ferrites/MWCNTs hybrids nanocomposites for energy storage and photocatalytic applications
By: Hezam, F. A.; Rajeh, A.; Nur, O.; et al.
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Effect of Nanoparticles Concentration on Thermal, Magnetic and Electrical Properties of Ni0.5Zn0.5Fe2O4 based Polyaniline Nanocomposites by In-Situ Polymerisation
By: Kaur, Bikramjit; Tanwar, Ruchika; Mandal, Uttam Kumar
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS Volume: 599 Article Number: 124798 Published: AUG 20 2020

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First-order magnetic transition induced by structural transition in hexagonal structure
By: Liu, Chaocheng; Kan, Xucai; Liu, Xiansong; et al.
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PVA-doped NiNdxFe2-xO4 nanoferrites: Tuning of dielectric and magnetic properties
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G. Matu, C. N. Marin, **I. Malaescu**, FREQUENCY AND TEMPERATURE ANALYSIS OF THE CLAUSIUS-MOSSOTTI FACTOR OF A KEROSENE-BASED FERROFLUID IN LOW FREQUENCY FIELD, JOURNAL OF OVONIC RESEARCH 16 (2) , pp.89-96, Published Mar-apr 2020

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Hardon, S; Kudelcik, J; (...); Kubovcikova, M

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O. M. Bunoiu, Georgeta Matu, C. N. Marin, **I. Malaescu**, *Investigation of some thermal parameters of ferrofluids in the presence of a static magnetic field*, Journal of Magnetism and Magnetic Materials, 498 (2020) 166132. https://doi.org/10.1016/j.jmmm.2019.166132

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Structural and magnetic studies of cobalt substituted magnetite ferrofluids
Sonia, LC and Phanjoubam, S
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Effects of applying uniform and non-uniform external magnetic fields on the optimal design of microchannel heat sinks
Hajmohammadi, MR; Gholamrezaie, S; (...); Mansoori, Z
Nov 15 2020 | INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES 186

3
Experimental Study on Thermal Conductivity and Magnetization Behaviors of Kerosene-Based Ferrofluid Loaded with Multiwalled Carbon Nanotubes
Li, Q; Zhao, JY; (...); Li, DC
Jun 9 2020 | ACS OMEGA 5 (22) , pp.13052-13063

4
Determination of the statistics of magnetically induced particle chains in concentrated ferrofluids
Socoliuc, V and Popescu, LB
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Optimal ferrofluids for magnetic cooling devices
Pattanaik, MS; Varma, VB; (...); Ramanujan, RV
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Functional Polyelectrolyte Coatings on Polymeric and Magnetic Colloidal Particles for Antifouling and Non-Toxic Bioconjugate Nanoparticles
Chau, NTT; Koh, ES; (...); Yang, SY
MACROMOLECULAR RESEARCH 29 (12) , pp.843-846, Published Dec 2021

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STUDY OF STRUCTURAL CHANGES IN BIOCOMPATIBLE FLUID BY THE ACOUSTIC SPECTROSCOPY
Hardon, S; Kudelcik, J; (...); Kubovcikova, M
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The influence of thixotropy on the magnetorheological property of oil-based ferrofluid
By: Yang, Chuncheng; Liu, Zhong; Yu, Mengchun; et al.
JOURNAL OF MOLECULAR LIQUIDS Volume: 320 Article Number: 114425 Part: A Published: DEC 15 2020

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Experimental Study on Thermal Conductivity and Magnetization Behaviors of Kerosene-Based Ferrofluid Loaded with Multiwalled Carbon Nanotubes
By: Li, Qian; Zhao, Juying; Jin, Licong; et al.
ACS OMEGA Volume: 5 Issue: 22 Pages: 13052-13063 Published: JUN 9 2020

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Determination of the statistics of magnetically induced particle chains in concentrated ferrofluids
By: Socoliuc, V; Popescu, L. B.
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Daniela Susan-Resiga, **I. Malaescu**, Oana Marinica, C. N. Marin, *Magnetorheological properties of a kerosene-based ferrofluid with magnetite particles hydrophobized in the absence of the dispersion medium*, Physica B: Physics of Condensed Matter, 587 (2020) 412150.
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A shear stress model of water-based magnetorheological polishing fluids
Ma, ZQ; Cao, JG; (...); Xu, JH
JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES 33 (1) , pp.160-169 Published Jan 2022

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Paula Sfirloaga, Gabriela Vlase, T. Vlase, **I. Malaescu**, C. N. Marin, Paulina Vlazan, *Silver doping in lanthanum manganite materials: structural and electrical properties*, Journal of Thermal Analysis and Calorimetry, 142 (2020) 1817–1823. https://doi.org/10.1007/s10973-020-10095-1

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Superlinear dependence of the conductivity, double/single Jonscher variations and the contribution of various conduction mechanisms in transport properties of La0.5Ca0.2Ag0.3MnO3 manganite
Moualhi, Y; Smari, M; (...); Dhahri, E
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C. N. Marin, **I. Malaescu**, *Experimental and theoretical investigations on thermal conductivity of a ferrofluid under the influence of magnetic field*, The European Physical Journal E, (2020) 43: 61.
DOI 10.1140/epje/i2020-11986-3

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Ferrofluidic thermal switch in a magnetocaloric device
Klinar, K; Vozel, K; (...); Kitanovski, A
ISCIENCE 25 (2), Published Feb 2022

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Magnetic Field Inhibition of Convective Heat Transfer in Magnetic Nanofluid
Zakinyan, A; Kunikin, S; (...); Aitov, V
MAGNETOCHEMISTRY 7 (2), Published Feb 2021

LV. Lucrarea

C. N. Marin, **I. Malaescu**, Paula Sfirloaga, Alexandrina Teusdea, *Electric and magnetic properties of a composite consisting of silicone rubber and ferrofluid*, Journal of Industrial and Engineering Chemistry 101 (2021) 405–413.
https://doi.org/10.1016/j.jiec.2021.05.042

1/4=0.250

1
A flexible force-sensitive film with ultra-high sensitivity and wide linear range and its sensor
Zhang, Q and Zhu, ZH
JOURNAL OF ALLOYS AND COMPOUNDS 895, Published Feb 2022

Total C=110.0332

Formula de calcul pentru indicatorul 3.1: $C = \sum_i \frac{c_i}{n_i^{ef}}$,

unde:
c_i – numărul de citări în reviste ISI ale publicaţiei *i*
n_i – numărul de autori ai publicaţiei *i* citate,
n_i^{ef} – numărul efectiv de autori ai publicaţiei *i* citate.
Nu se iau în considerare citările provenind din articole care au ca autor sau coautor candidatul (autocitările);

Indicatorul 3.2 - Indicele Hirsch

Nume	**Indicele Hirsch, *h* (WOS)**
Iosif Malaescu	**13**

Criteriile minimale CNADTCU pentru Profesor/Conducator de doctorat

Profesor/Coordonator de doctorat	**Indicator A**	**Indicator I**	**Indicator P**	**Citări C**	**h index WoS**	**Total punctaj***
CNADTCU	**≥ 2**	**≥ 4**	**≥ 4**	**≥ 40**	**≥ 10**	**≥ 12**
Iosif Mălăescu	7,8465	8.04646	21.13665	110.0332	13	**30.5397**

***Punctaj total CNATDCU: T = A + P/2 + I/2 + C/20 + h/5=30,5397 - Indeplinit**

Timisoara 25.04.2022 Prof. Dr. Emerit Iosif Malaescu

[redacted]