CURRICULUM VITAE

Informaţii personale;

Conf. Dr. CAIZER Costică

Dr. Habil., Conducător de Doctorat – domeniul Fizică

Adresa: Universitatea de Vest din Timişoara (UVT)
Facultatea de Fizică
Departamentul Fizică
Bv. V. Pârvan, nr. 4
300223 - Timişoara
România

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E-mail: costica.caizer@e-uvt.ro
E-mail alternativ: caizer_c@yahoo.com

Web: https://physics.uvt.ro/facultate/cadre-didactice/caizer-costica/
https://www.brainmap.ro/costica-caizer
http://www.phys.uaic.ro/index.php/scoala-doctorala/sustineri-teze-abilitare/costica-caizer-abilitare/

https://publons.com/researcher/4717262/costica-caizer/
https://scholar.google.ro/citations?user=r0TZhlVMhNQC&hl=ro
https://eertis.eu/errf-2200-000j-0349

Data naşterii: 20.08.1960;

Casatorit cu Georgeta Caizer, Medic Primar Medicină Generală şi Medic de Familie, C.M.I. Dr. Caizer, Timişoara;

Doi copii: Iulia Caizer, Avocat, Baroul Timiş;
Isabela Caizer, Medic Specialist Chirurgie Plastică, Clinica de Chirurgie Plastică Casa Austria Timişoara şi Clinica de Chirurgie Estetică BROL Timişoara;

Poziţia curentă: Conferenţiar Dr. Dr. Habil., Departament Fizică, Universitatea de Vest Timişoara
Conducător de Doctorat - Fizică;
Director laborator: Nanomateriale Magnetice Avansate;

(I) 1) Gradul de îndeplinire a standardelor academice CNATDCU – Fizică – UVT

Activităţi *	Punctaje necesare pentru Conferenţiar	Punctaje necesare pentru Profesor/Abilitare	Punctaje şi gradul de îndeplinire realizate de Conf. Caizer Costică, comparativ cu Profesor/Abilitare
A	≥ 1	≥ 2	20,360; 1.018 %
I	≥ 2	≥ 4	13,864; 346,6 %
P	≥ 2	≥ 4	19,670; 491,75 %
C	≥ 20	≥ 40	414,470; 1.036,18 %
h	≥ 5	≥ 10	16; 160 %
Punctaj total	≥ 5	≥ 12	60,96≅61; 508 %

* Activităţi conform Fişei personale de verificare a standardelor CNATDCU – Fizică – UVT (ataşată);

A: Activitatea didactică şi profesională;

I, P: Activitatea de cercetare (I: articole ştiinţifice originale *în extenso* ISI (WOS) ca autor; P: articole ştiinţifice originale *în extenso* ISI (WOS) ca prim autor sau autor corespondent);

C, h: Recunoaşterea impactului activităţii (C: citări în reviste ştiinţifice ISI sau în cărţi WOS; h: factorul Hirsch (Web of Science (WOS));

2) Standardele academice CNATDCU – Fizică – UVT realizate în ultimii 5 ani (2018 – 2022)

Activităţi *	Punctaj necesar pentru Profesor univ. - pentru întrega carieră -	Punctaj realizat de Conf. Caizer Costică - în ultimii 5 ani -
Punctaj total **T=A+(I/2+P/2)+(C/20+h/5)**	**≥ 12**	**19,44**

(II) Studii şi diplome/ atestate/ certificate obţinute

- **MINISTERUL EDUCAŢIEI NAŢIONALE, Abilitare în Fizică** (susţinută la **UNIVERSITATEA "AL. I. CUZA" IASI**), *cu "**brio**"*, sept. 2015;
  Atestat de Abilitare în Fizică;
- **UNIVERSITATEA DE VEST TIMIŞOARA, Studii doctorale**, 1995-2003;
  Diplomă de Doctor în Fizică, *cu cea mai înaltă distincţie "**SUMMA CUM LAUDE**"*, 2003;
- **UNIVERSITATEA "BABEŞ-BOLYAI" CLUJ-NAPOCA,** ***Certificat de Definitivare în Învăţământ, specializarea Fizică,*** cu ***media generală 10 (zece)***, sept. 1989 (prin Ordinul Ministrului Educaţiei şi Învăţământului nr. 8360/1989);
- **UNIVERSITATEA "AL. I. CUZA" IAŞI, FACULTATEA DE FIZICĂ, Studii de licenţă**,1981-1985; ***Diplomă de Licenţă în Fizică*** (echivalent cu ***Master***), 1985;
- ***Recomandarea pentru cercetare ştiinţifică*** – **Universitatea "Al. I. Cuza" Iaşi, Facultatea de Fizică**, 1985 (dispoziţie guvernamentală nr. 364822/1985);
- **Colegiu Naţional "Spiru Haret" Tecuci**, 1975-1979; ***Diplomă de Bacalaureat***, ***Şef de promoţie***, 1979;

(III) Experienţa profesională şi locurile de muncă ocupate

- ***Conferenţiar,* Facultatea de Fizică, Universitatea de Vest Timişoara**, 2005-prezent;
  Discipline: Magnetismul nanosistemelor (*curs nou*), Bioelectromagnetism (*curs nou*), Proprietăţi magnetice ale substanţei (*curs nou*), Nano- biomagnetism (*curs nou*), Metode moderne de studiu a nanomaterialelor magnetice (*curs nou*), Metode fizice de control nedistructiv (*curs nou*), Fizică experimentală (II) (*curs nou*), Electricitate şi magnetism;

- ***Şef de lucrări,* Facultatea de Fizică, Universitatea de Vest din Timişoara**, 2004-2005;

  Discipline: Electricitate şi magnetism, Materiale magnetice, Nano- fluide magnetice (*curs nou*), Nano- biomagnetism (*curs nou*);

- ***Doctorand,* Universitatea de Vest Timişoara, Fizică**, 1995-2003;
  - toate examenele din cadrul doctoratului promovate cu nota maximă (10);
  - acordarea calificativului maxim (foarte bine) tuturor referatelor din cadrul doctoratului;
  - comunicarea rezultatelor cercetării la 33 de conferinţe ştiinţifice (13 internaţionale);
  - publicarea rezultatelor cercetării în 34 de lucrări ştiinţifice (16 în reviste ISI);
  - citarea rezultatelor publicate în reviste ISI de prestigiu (e.g.: Physical Review Letters, Physical Review B, Applied Physics Letters, Journal of Applied Physics, Journal of Physics - Condensed Matter, Nanoscale, Nanotechnology, Scripta Materialia, Journal of the American Chemical Society, Chemical Review, Chemistry of Materials etc..);

- ***Asistent universitar,* Facultatea de Fizică, Universitatea de Vest din Timişoara,** 1991-2003;

  Discipline: Electricitate şi magnetism, Proprietăţi magnetice ale corpului solid şi fenomene de rezonanţă magnetică, Materiale magnetice, Fluide magnetice;
  - introducerea a peste 20 de lucrări *noi* de laborator pentru studenţi;

- ***Profesor asociat*, Liceul nr. 2 Cugir, jud. Alba**, 1988-1991;
  - *premiul II* şi *premiul III* la *faza naţională* a olimpiadelor şcolare, 1988-1989;
  - *premiul I* şi *premiul III* la *faza judeţeană* (ultima fază ţinută în acel an) a olimpiadelor şcolare, 1989-1990;

- ***Fizician- cercetator*** (*conceptie/cercetare*), **I.M. Cugir, jud. Alba, Departamentul Concepţie, Secţia I Proiectare** (1988-1991);

  Teme de cercetare: Sortarea automată prin metode magnetice a ţevilor din oţel tratate termic; Defectoscopie magnetică; Conceperea unei instalaţii magneto-inductive cu posibilitatea masurării şi sortării automate după duritate şi alte caracteristici magnetice si structurale ale ţevilor din oţel tratate termic; Fluorescenţa de raza X: aplicaţie la determinarea cantitativă, rapidă, cu precizie (cu prelucrarea pe computer) a concentraţiei elementelor de aliere din probele de oţel turnate;

- ***Profesor de Fizică,* Liceul nr. 2 Botoşani**, 1985-1988;
  - *premiul III*, Sesiunea de referate şi comunicări ştiinţifice (fizică experimentală), faza judeţeană, 1986-1987;

(IV) <u>Activitatea de cercetare ştiinţifică/ didactică şi publicaţii</u>

➢ <u>Cercetare</u>;

Domenii de cercetare ştiinţifică: magnetism, nanomagnetism, nanostructuri magnetice avansate (nanoparticule magnetice, nanocompozite magnetice, nanofluide magnetice),

relaxare magnetică, biomagnetism, radiofrecvenţă, hipertermia magnetică cu aplicaţie în terapia cancerului;

- ***coordonarea a două grupuri de cercetare ştiinţifică (unul interdisciplinar: fizică, chimie, medicină, nanobiotehnologii)****;*
- ***infiinţarea unui nou laborator de cercetare: "Magnetometrie – Nanoparticule Magnetice"***;
  - cu finanţare din proiect PNCDI-II 71-026/2007-2010, obţinut ca *director – coordonator parteneriat* prin competiţie naţională;
  - **investitie 140.000 EUR** la Facultatea de Fizică - UVT din proiectul PNCDI-II, Parteneriate D7, 71-026/2007 (2007 – 2010), obţinut de mine ca ***director***, prin competiţie naţională: **Magnetometru VSM QD-VersaLab, Quantum Design USA**; instalaţie performantă pentru cercetarea materialelor magnetice (diamagnetice, paramagnetice şi cu ordonare magnetică), de ultimă generaţie: sensibilitate: 10^{-7} uem/g; +/– 30 kOe; 50 - 400 ºK;
- ***dezvoltarea unui laborator de cercetare: "Nanomateriale Magnetice Avansate";***
  - cu finanţare din grant CNCSIS A 728/ 2006-2008, obţinut ca *director*, prin competiţie naţională;
  - **investitie aprox. 52.500 EUR** la Facultatea de Fizică - UVT din proiectul PNCDI-III, Parteneriate, PN-III-P2-2.1-PED-2019-3067 (2019 – 2022), obţinut de mine ca ***director***, prin competiţie naţională: **Generator pentru Hipertermia magnetica**, echipament nou, performant, pentru studiul terapiei cancerului *in vitro* si *in vivo* cu bio-nanoparticule magnetice;
- ***introducerea a 2 noi direcţii de cercetare ştiinţifică în facultate şi UVT****;*

(1) *Proprietăţi magnetice ale nanomaterialelor avansate de tip spinel, sub formă de nanoparticule ferimagmnetice dispersate în diferite matrici (lichide (nanofluide), solide (nanocompozite), aer (nanopulberi))*;

(2) *Terapia alternativă a cancerului prin Hipertermie Superparamagnetică utilizand bionanoparticule magnetice SPIONs-ciclodextrine/ lipozomi* (în parteneriat);

- ***Conceperea şi realizarea a 5 instalaţii experimentale de laborator, performante, pentru cercetare ştiinţifică;***

(1) instalaţie pentru studiul proprietăţilor magnetice ale nanomaterialelor magnetice avansate (nanoparticule, nanocompozite, nanofluide), cu sistem de achiziţii de date şi PC;
- publicată parţial în J. Phys.-Condens. Matter 15 (2003) 765;

(2) instalaţie pentru înregistrarea susceptivităţii magnetice şi a ciclurilor de histerezis ale nanomaterialelor magnetice avansate, la scăderea continuă a temperaturii până la 77 K, prevazută cu sistem de achiziţii de date;
- publicată parţial în: J. Appl. Phys. 92 (2002) 2125

(3) instalaţie pentru înregistrarea susceptivităţii magnetice iniţiale şi a histerezei dinamice (cu frecvenţa), în condiţii de câmp magnetic intens, cu frecvenţa până la ~700 Hz;

(4) instalaţie cu comandă electronică în comutaţie pentru studiul proceselor de magnetizare şi relaxare magnetică în nanomateriale magnetice, cu durata de variaţie a câmpului magnetic de până la 5 nanosecunde (curent de magnetizare: 0 - 5 A);
- publicată parţial în Annals Univ. Oradea, Physics VII (1997) 83;

(5) generator de oscilaţii în trenuri de undă de putere, pe prima frecvenţă industrială (6,67 MHz), utilizând ferite, linia de transmisie în λ/4 şi dispozitive semiconductoare în comutaţie;

- publicată parţial în Annals West Univ. Timişoara, Phys. XXXII (1995) 28 şi Rom. J. Phys. 46 (2001) 139;

- ***Colaborări/ parteneriate:***

- Internaţionale;

(1) **Franta**:

- UNIVERSITÉ DE PERPIGNAN, LABORATOIRE PROMES CNRS UPR8521 (Prof. Dr. Hamid Kachkachi);

- UNIVERSITÉ DE STRASBOURG, CNRS INSTITUT DE PHYSIQUE ET CHIMIE DES MATÉRIAUX DE STRASBOURG (Dr. Sylvie Begin-Colin);

- UNIVERSITY CLAUDE BERNARD LYON-1, CNRS (Dr. Abdelhamid Elaissari);

(2) **Belgia**: UNIVERSITÉ DE MONS, GENERAL ORGANIC AND BIOMEDICAL CHEMISTRY DEPART., CENTER FOR MICROSCOPY AND MOLECULAR IMAGING (CMMI) (Dr. Sophie Laurent);

(3) **Germania**: FH AACHEN UNIVERSITY OF APPLIED SCIENCES, HELMHOLTZ INSTITUTE, DEPARTMENT OF MEDICAL ENGINEERING AND APPLIED MATHEMATICS (Dr. Ulrich M. Engelmann);

(4) **Italia**:

- CNR - INSTITUTE FOR MICROELECTRONICS AND MICROSYSTEMS (IMM), Lecce (Dr. Riccardo Di Corato);

- INSTITUTE OF POLYMERS COMPOSITES AND BIOMATERIALS, NATIONAL RESEARCH COUNCIL OF ITALY, Naples (Dr. Teresa Russo);

(5) **Spania**: UNIVERSITY OF BARCELONA, BIO-PHYS-CHEM DEPARTMENT (Dr. Sergio Madurga);

(6) **Grecia**: NCSR "DEMOKRITOS", INSTITUTE OF NUCLEAR & RADIOLOGICAL SCIENCES TECHNOLOGY, Athens (Dr. Eirini Fragogeorgi);

(7) **SUA**: UNIVERSITY OF TEXAS (EL PASO), DEPARTMENT OF PHYSICS (Dr. Ahmed A. El-Gendy);

(8) **Mexic**: CENTRO DE INVESTIGACIÓN Y DE ESTUDIOS AVANZADOS DEL INSTITUTO POLITÉCNICO NACIONAL CINVESTAV-IPN, Zacatenco, Ciudad de Mexico (Dr. Jaime Santoyo-Salazar);

(9) **Brazilia**:

- SÃO PAULO STATE UNIVERSITY (UNESP), INSTITUTE OF CHEMISTRY, MAGNETIC MATERIALS AND COLLOIDS LABORATORY (Prof. Dr. Rodrigo Fernando C. Marques);

- FEDERAL UNIVERSITY OF SÃO PAULO, DEPARTMENT OF SCIENCE AND TECHNOLOGY (Dr. Ana Paula Lemes);

(10) **India**:

- INDIRA GANDHI CENTRE FOR ATOMIC RESEARCH, SMART MATERIALS DEPARTMENT (Dr. Barid Baran Lahiri);

- SGB AMRAVATI UNIVERSITY, DEPARTMENT OF BIOTECHNOLOGY (Prof. Dr. Mahendra Rai);

- Naţionale;

(1) ACADEMIA ROMÂNĂ – FILIALA TIMIŞOARA (CS I Dr. Cecilia Savii, Dr. Mihaela Popovici);

(2) UNIVERSITATEA "POLITEHNICA" TIMIŞOARA (Prof. Dr. Mircea Ştefănescu; Conf. Dr. Marcela Stoia);

(3) UNIVERSITATEA DE MEDICINĂ ŞI FARMACIE "VICTOR BABEŞ" TIMIŞOARA (Prof. Dr. Cristina Dehelean, Prof. Dr. Codruţa Şoica, Conf. Dr. Tănăsie Gabriela (ONCOGEN – Spitalul Clinic Judeţean Timişoara));

(4) UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ A BANATULUI TIMIŞOARA (Prof. Dr. Nicoleta Hădărugă);

(5) INSTITUTUL NAŢIONAL DE CERCETARE - DEZVOLTARE PENTRU ELECTROCHIMIE ŞI MATERIE CONDENSATĂ TIMIŞOARA (CS I Dr. Ioan Grozescu, IDT I Dr. Paulina Vlazan);

(6) UNIVERSITATEA „AL. I. CUZA" IAŞI, FACULTATEA DE FIZICĂ, CENTRUL DE EXCELENŢĂ „CARPATH" (Prof. Dr. Alexandru Stancu; Conf. Dr. Vasile Ţura);

(7) INSTITUTUL DE CHIMIE MACROMOLECULARĂ "PETRU PONI" IAŞI – CENTRUL DE CERCETĂRI AVANSATE PENTRU BIONANOCONJUGATE ŞI BIOPOLIMERI (CS I Dr. Mariana Pinteală, CS I Dr. Liviu Săcărescu);

(8) INSTITUTUL NAŢIONAL C-D ÎN FIZICĂ ŞI INGINERIE NUCLEARĂ „HORIA HULUBEI" BUCUREŞTI (CS I Dr. Petru Mihai Racolţa);

(9) INSTITUTUL NATIONAL C-D DE CHIMIE-FIZICĂ „ILIE MURGULESCU" BUCUREŞTI (CSI Dr. Victor Fruth);

(10) UNIVERSITATEA DE MEDICINĂ ŞI FARMACIE CRAIOVA (Conf. Dr. Alice-Sandra Buteică);

(11) BIOCLINICA TIMIŞOARA (Medic Primar Medicina de Laborator, Dr. Eleonora Gheorghiu);

(12) SYNEVOVET BUCURESTI (Dr. Claudiu Gal, Expert Traian Nicolae);

(13) UNIVERSITATEA „BABES-BOLYAI" CLUJ-NAPOCA, CENTRUL DE MICROSCOPIE ELECTRONICA (Conf. Dr. Lucian Barbu-Tudoran);

(14) UNIVERSITATEA „BABES-BOLYAI" CLUJ-NAPOCA, FACULTATEA DE FIZICA (Prof. Dr. Romulus Tetean);

(15) UNIVERSITATEA DE MEDICINĂ ŞI FARMACIE "IULIU HATIEGANU" CLUJ-NAPOCA, DEPARTAMENTUL DE FIZICA FARMACEUTICA SI BIOFIZICA (Prof. Dr. Constantin Mihai Lucaciu, Prof. Dr. Rares Stiufiuc);

- ***9 granturi/ proiecte/ contracte de cercetare, obţinute prin competiţie naţională şi internaţională (2 director-coordinator, 2 director, 1 responsabil, 2 responsabil echipa partener, 1 colaborator, 1 membru)****:*
  - Proiect PN-III-P2-2.1-PED-2019-3067, UEFISCDI (2019-2022) - ***director - coordonator***;
  - Grant internaţional: COST Action, MP0902/2009 (2009 – 2013) – ***responsabil WG2****;*
  - Proiect PNCDI II, Parteneriate D7, 71-026/2007 (2007 – 2010) – ***director - coordonator***;
  - Grant CNCSIS tip A, Cod 728/2006 (2006 – 2008) – ***director***;
  - Contract (subgrant CNCSIS A), Contract 6891/2005 – ***director***;
  - Grant CNCSIS A, Cod 648/2005 (2005 – 2006) – ***responsabil echipă*** UVT;
  - Grant CNCSIS A, Cod 583/2003 (2003 – 2005) – ***responsabil echipă*** UVT;
  - Grant ANSTI, AT, nr. 6142/2000 – ***colaborator*** (convenţie de colaborare nr. 149/2000, dintre Universitatea de Vest Timişoara şi Academia Română - Filiala Timişoara);
  - Contract CNCSU, nr. 4012/1995 – *membru* în echipă;
- ***îndrumare tineri cercetători şi doctoranzi*** (studenţi la licenţă/ master în proiecte de cercetare şi, parţial, doctoranzi (colaborare la finalizarea cu brio (inclusiv 'Summa Cum Laude') a 4 teze de doctorat));
- ***peste 58 de lucrări de cercetare ştiinţifică publicate*** (v. lista de lucrări);
  - 38 în reviste ISI (cu ISI până la ~9 si AIS până la ~2); 43 publicate ca *singur* autor (14 din care 12 ISI), *prim-autor* (23 din care 15 ISI) şi *prim-coautor* (14 din care 8 ISI);
- ***10 capitole de cercetare publicate în volume ştiinţifice (peer review) la mari edituri internaţionale de prestigiu*** (5 în SPRINGER, 4 în WILEY, 1 în TAYLOR&FRANCIS-CRC Press) (v. lista de lucrări);
  - 5 capitole *singu*r auror; 5 capitole *prim* autor;
- ***4 carti/volume de cercetare publicate (peer review) la mari edituri internaţionale de prestigiu*** (1 în WILEY, 3 în MDPI (WOS)) (v. lista de lucrări);
  - 3 *singu*r auror; 1 *prim* autor; (1 print, 3 electronic)
- ***peste 63 de comunicări ştiinţifice la Conferinţe*** (v. lista de lucrări);
  - 37 la Conferinţe Internaţionale de prestigiu; 50 ca *singur* autor (11), *prim* autor (28) si *prim coautor* (13);

➢ **<u>Didactic</u>;**

- ***titular al disciplinelor didactice*** (pe poziţia actuală de Conferenţiar)*:*

(1) ***Magnetismul nanosistemelor***;
- *curs nou* introdus de mine în facultate;

(2) ***Proprietăţi magnetice ale substanţei****;*
- *continut nou* introdus de mine;

(3) ***Bioelectromagnetism****;*

- *curs nou* introdus de mine în facultate (tematică nouă la nivel naţional: biocâmpurile electrice şi magnetice ale corpului uman, cu aplicaţii în medicina modernă);

- ***9 cursuri <u>noi</u> şi îndrumatoare de laboratoar introduse în facultate pentru studenţi, din care 5 publicate*** (v. lista de lucrări):
  - 4 ca *singur* autor, 1 p*rim* autor;
  - cursuri noi: Nano-biomagnetism, Nano-fluide magnetice, Metode moderne de studiu a nanomaterialelor magnetice, Metode fizice de control nedistructiv, Fizică, Fizică experimentală (II), Magnetismul nanosistemelor, Proprietăţi magnetice ale substanţei, Bioelectromagnetism;
  - conceperea şi realizarea a 20 de lucrări *noi* de laborator (experimente şi referate de laborator), şi apoi publicarea lor în îndrumatoarele de laborator "Electricitate şi Magnetism: Lucrări experimentale", autori **C. Caizer**, I. Hrianca, şi "Biolectromagnetism: Lucrări de laborator", autor **C. Caizer** (v. lista de lucrări);
- ***dezvoltarea laboratorului didactic la disciplinele noi introduse;***
- ***indrumarea studenţilor la lucrarile de Licenţă şi Disertaţie;***
- ***7 cărţi/ cursuri publicate, cu referenţi şi ISBN, în edituri recunoscute CNCSIS*** (v. lista de lucrari; publice în BCUT - Timişoara):
  - 6 *singur* autor şi 1 *prim* autor;
- ***1 Proiect educaţional (formare iniţială);***
  - **Proiectul pentru Învăţământul Rural** (PIR), 2005-2007;

    MEN-UVT-Facultatea de Fizica – ***responsabil*** UVT pentru domeniul Fizică, şi titular al cursului *Electricitate şi magnetism*;
    - co-finanţat de Banca Mondială, Guvernul României şi comunităţile rurale;
    - formare profesională de 2 ani în a doua specialitate (Fizică);

(V) <u>Proiecte de cercetare / granturi</u>

(V.1) <u>Proiecte de cercetare/ granturi conduse/ coordonate ca *director* de proiect şi *responsabil* partener</u>

- obţinute prin competiţie -

(1) ***Proiect de cercetare PN-III-P2-2.1-PED-2019-3067, UEFISCDI*** (2019-2022);

(2) ***Grant suport internaţional, Comisia Europeană: COST Action MP0902*** (2009 – 2013);

(3) ***Proiect de cercetare PNCDI-II, Parteneriate D7*** (2007 – 2010);

(4) ***Grant de cercetare: CNCSIS tip A*** (2006 – 2008);

(5) ***Contract de cercetare: subcontract CNCSIS A*** (2005);

(1) Proiect de cercetare PN-III-P2-2.1-PED-2019-3067, UEFISCDI (2019-2022);
Contract 263PED/2019
Acronim proiect: BIO-SPION

Perioada de derulare a proiectului: 2019 – 2022;
Valoarea aprobată: 600.000 RON;

- ***Titlu proiect:***

NANOBIOSTRUCTURI INOVATOARE BAZATE PE NANOPARTICULE FERIMAGNETICE BIOCONJUGATE CU CICLODEXTRINE PENTRU CREŞTEREA EFICACITĂŢII ŞI REDUCEREA TOXICITĂŢII ÎN TERAPIA CANCERULUI PRIN HIPERTERMIE SUPERPARAMAGNETICĂ

Director de proiect - coordonator: Conf. Dr. Habil. CAIZER Costică

Conducător de proiect (CO): UNIVERSITATEA DE VEST TIMISOARA (UVT)
Autoritatea Contractantă: UEFISCDI

Parteneri în proiect:

- P1 (UMFVBT): UNIVERSITATEA DE MEDICINĂ ŞI FARMACIE "VICTOR BABEŞ" TIMIŞOARA (Responsabil proiect Prof. Dr. ŞOICA Codruţa)

Principalele rezultate:

- 7 articole ISI (6 zona rosie, 1 zona galbena); 1 articol indexat WOS; 2 lucrări la Conferinte Internaţionale şi 2 Naţionale; 1 Teză de Doctorat cu rezultate parţiale din proiect; 1 protocol de aplicare a Hipertermiei magnetice *in vitro* pentru terapia cancerului mamar MCF-7; bionanoparticule SPION-γ-ciclodextrine pentru terapia cancerului (rezultatele acestea sunt cuprinse (detaliat) şi în documentele de raportare oficiale şi Raportul final către autoritatea contractantă (UEFISCDI);
- rezultatele obtinute in cadrul proiectului au fost evaluate in 2022 de catre UEFISCDI cu calificativul EXCELENT;

(2) Support International Project, COST Action MP0902/ 2009;
Project period: 2009 – 2013;

Project title:

COMPOSITES OF INORGANIC NANOTUBES AND POLYMERS (COINAPO)

Chair (Slovenia): Prof. Irena Drevenšek Olenik
Project Director (Romania): Dr. Petru Mihai Racolta

Contractor: *IFIN – HORIA HULUBEI*
Contracting Authority: *EUROPEAN COMISSION (EU RTD Framework Programme)*

Romanian Partners:

IFIN - HORIA HULUBEI Bucuresti: Dr. Petru Mihai RACOLTA (WG2, WG3);

ICF „ILIE MURGULESCU" Bucuresti: Dr. Victor FRUTH (WG1, WG2);

UNIVERSITATEA „AL. I. CUZA" Iasi: Assoc. Professor Vasile TURA (WG4);

WEST UNIVERSITY OF TIMISOARA: **Assoc. Professor Costica CAIZER** (WG2);

ICM "PETRU PONI" Iasi: Dr. Liviu SACARESCU (WG1, WG2);

NAT. INSTITUTE OF OPTOELECTRONICS Bucuresti: Dr. Viorel BRAIC (WG1, WG2);

(3) Proiect PNCDI-II, Programul: PARTENERIATE ÎN DOMENII PRIORITARE
Domeniul: D7
Contract nr. 71-026/2007
Acronim proiect: NANOPART

Perioada de derulare a proiectului: 2007 – 2010;
Valoarea aprobată: 2.000.000 RON;

- ***Titlu proiect:***

CERCETĂRI COMPLEXE PRIVIND OBȚINEREA ŞI PROPRIETĂȚILE MAGNETICE ALE SISTEMELOR DE NANOPARTICULE FERIMAGNETICE DE $Co_{\delta}Fe_{3-\delta}O_4$ SURFACTATE/ NESURFACTATE ŞI BIOCOMPATIBILE CU POTENȚIALE APLICAȚII ÎN TERAPIA CANCERULUI

Director de proiect - coordonator: Conf. Dr. CAIZER Costică

Conducător de proiect (CO): UNIVERSITATEA DE VEST TIMISOARA (UVT)
Autoritatea Contractantă: CENTRUL NAȚIONAL DE MANAGEMENT PROGRAME (CNMP) – ANCS

Parteneri în consorţiu:

- P1 (UPT): UNIVERSITATEA "POLITEHNICA" TIMIŞOARA (Responsabil proiect Prof. Dr. Ştefănescu Mircea)
- P2 (INCDEMCT): INSTITUTUL NAȚIONAL DE CERCETARE-DEZVOLTARE PENTRU ELECTROCHIMIE ŞI MATERIE CONDENSATĂ TIMIŞOARA (Responsabil proiect IDT I Dr. Vlăzan Paulina)
- P3 (UAIC): UNIVERSITATEA "AL. I. CUZA" IAŞI (Responsabil proiect Prof. Dr. Stancu Alexandru)
- P4 (USAMVBT): UNIVERSITATEA DE ŞTIINȚE AGRICOLE ŞI MEDICINĂ VETERINARĂ A BANATULUI TIMIŞOARA (Responsabil proiect Prof. Dr. Hădărugă Nicoleta)
- P5 (UMFVBT): UNIVERSITATEA DE MEDICINĂ ŞI FARMACIE "VICTOR BABEŞ" TIMIŞOARA (Responsabil proiect Conf. Dr. Tănăsie Gabriela)

Principalele publicaţii rezultate:

- 10 articole ISI; 6 articole în alte baze de date şi Proceedings; 22 de lucrări ştiinţifice la Conferinţe Internaţionale şi 1 Naţionala; 1 Teză de Doctorat cu rezultate parţiale din proiect (acestea sunt cuprinse (detaliat) şi în documentele de raportare oficiale şi Raportul final către autoritatea contractantă (CNMP-ANCS));

(4) Grant CNCSIS tip A, Cod CNCSIS 728/2006
Contract nr. 56GR/2006; Contract nr. GR75/2007; Contract nr. 97GR/2008

Perioada de derulare a proiectului: 2006 – 2008;
Valoarea aprobată: 450.000.000 ROL;

- ***Titlu proiect:***

CECETĂRI FUNDAMENTALE ŞI FUNDAMENTAL-APLICATIVE PRIVIND SISTEMELE DE NANOPARTICULE FERIMAGNETICE, SPINELICE, DISPERSE

Director de proiect: Lect. Dr. CAIZER Costică

Contractor: UNIVERSITATEA DE VEST TIMIŞOARA (UVT)
Autoritatea Contractantă: CONSILIUL NAȚIONAL AL CERCETĂRII ŞTIINȚIFICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR (CNCSIS)

Principalele publicaţii rezultate:

- 6 articole ISI; 1 articol în Anale; 5 lucrări la Conferinte Internaţionale şi 2 Naţionale; 1 Teză de Doctorat cu rezultate parţiale din grant (acestea sunt cuprinse (detaliat) şi în documentele de raportare oficiale şi Raportul final către autoritatea contractantă (CNCSIS-UEFISCDI));

(5) Contract nr. 6891/2005 (subgrant CNCSIS A)

Perioada de derulare a contractului: 2005;
Valoare aprobată: 25.000.000 ROL;

- ***Titlu proiect***

  STUDIUL PROPRIETĂȚILOR MAGNETICE ALE NANOCOMPOZITELOR DE TIP $Ni_{(1-x)}Zn_xFe_2O_4$/ SiO_2

Director: Lect. Dr. CAIZER Costică

Contractor: UNIVERSITATEA DE VEST TIMIŞOARA (UVT)
Autoritatea Contractantă: UNIVERSITATEA POLITEHNICA TIMIŞOARA (UPT)

Principalele publicaţii rezultate:

- 2 articole ISI; 2 comunicări la Conferinţe Naţionale (acestea sunt cuprinse (detaliat) şi în Raportul de cercetare către autoritatea contractantă);

(V.2) <u>Granturi de cercetare în care am fost *resposabil de echipă* din partea UVT (Fizică)</u> (convenţii de colaborare);

- obţinute prin competiţie -

(6) <u>Grant CNCSIS A</u>, Cod CNCSIS 648/2005

Contract nr. 2738/2006

Perioada de derulare a proiectului: 2005 – 2006;
Valoarea aprobată: 250.000.000 ROL

- ***Titlu proiect:***

  NANOCOMPOZITE DE TIP $Ni_XZn_{(1-X)}Fe_2O_4$ CU PROPRIETĂȚI MAGNETICE DIRIJATE, OBȚINUTE PRIN DOUĂ METODE NECONVENȚIONALE, ORIGINALE

Director de proiect: Prof. Dr. Ştefănescu Mircea (UPT)
Responsabil echipă din partea UVT-Fizică (convenție de colaborare): Lect. Dr. Caizer Costică

Contractor: UNIVERSITATEA POLITEHNICA TIMIŞOARA (UPT)
Autoritatea Contractantă: CNCSIS

(7) <u>Grant CNCSIS A</u>, Cod CNCSIS 583/2003

Perioada de derulare a proiectului: 2003 – 2005;
Valoare: 269.000.000 ROL;

- ***Titlu proiect***

  MATRICI HIBRIDE ORGANICE-ANORGANICE ŞI NANOCOMPOZITE MODIFICATE CHIMIC, CU PROPRIETĂŢI MAGNETICE SPECIALE, OBŢINUTE PRIN METODA SOL-GEL ŞI SONOSINTEZĂ

  Director de proiect: CPI Dr. Savii Cecilia (Academia Romana)
  Responsabil echipă din partea UVT-Fizică (convenție de colaborare): Lect. Dr. Caizer Costică

Contractor: ACADEMIA ROMÂNĂ – FILIALA TIMIŞOARA
Autoritatea Contractantă: CNCSIS

(8) <u>Grant ANSTI AT</u>, nr. 6142/2000;

Perioada de derulare a proiectului: 2000;

- ***Titlu proiect:***

  SINTEZA SOL-GEL SI CARACTERIZAREA UNOR NANOCOMPOZITE PE BAZA DE OXIZI DE FIER IN MATRICE DE SILICE AMORFA

  Director de proiect: CS Mihaela POPOVICI (Academia Română);

  Responsabil echipa UVT-Fizică (convenție colaborare): Assistant Professor Costică Caizer

Contractor: ACADEMIA ROMÂNĂ – FILIALA TIMIŞOARA
Autoritatea Contractantă: CNCSIS

(VI) <u>Premii/ distincţii şi alte elemente de recunoaştere a contribuţiilor ştiinţifice şi vizibilitatea internaţională</u>

♦ **Distincţii:**

- ***The Albert Einstein Award of Excellence 2011***, ABI, USA;
- ***Diplomă de Excelenţă*** (pentru cercetare ştiinţifică), Universitatea de Vest Timişoara, 2010;
- "***TOP 100 SCIENTISTS 2009***"***, silver medal***, IBC, Cambridge, ENGLAND;
- ***nominalizat şi inclus în „WHO'S WHO IN THE WORLD***", 24th Edition, Marquis Who's Who, 2007, NJ, USA;
- **cea mai înaltă distincţie, "*SUMMA CUM LAUDE*"**, la conferirea titlului de Doctor în Fizică, 2003;

♦ **Alte elemente de recunoaştere a contribuţiilor ştiinţifice:**

- ***Citări*** în reviste internaţionale de prestigiu cotate ISI (cu **ISI până la ~ 46**) (ex.: Phys. Rev. Lett., Phys. Rev. B, Appl. Phys. Lett., J. Appl. Phys., J. Phys.–Condens. Matter, Nano Today,

Nanoscale, Nanotechnology, Scripta Materialia, J. Am. Chem. Soc., Chem. Rev., Chem. Mater. etc...);

- ***Hirsch index şi număr de citări;***
  - ***h-index*: 16** (Clarivate Analytics – Web of Science (WOS));
    17 (Scopus);
    19 (Google Academic);
  - ***numar de citări*** *(fără autocitări)***: 738** (Clarivate Analytics – WOS);

- ***Invitat ca referent ştiinţific la reviste ISI din străinătate;***

*- referent la peste 30 de reviste ISI (*cu ***ISI până la ~14****);*

(1) Materials Characterization – Elsevier Science (referent din 2012);
(2) Materials Letters - Elsevier Science (referent din 2010);
(3) Nanotechnology - Institute of Physics Publishing (IOP), U.K (referent din 2009);
(4) Advanced Materials - Wiley-VCH (referent din 2009);
(5) Journal of Applied Physics – American Institute of Physics (AIP), USA (referent din 2009);
(6) International Journal of Modern Physics B - World Scientific Publishing, USA (referent din 2009);
(7) Journal of Physics D: Applied Physics – Institute of Physics Publishing (IOP), U.K. (referent din 2008);
(8) Processing and Application of Ceramics - Elsevier Science (referent din 2008);
(9) Advanced Functional Materials - Wiley-VCH (referent din 2007);
(10) European Journal of Inorganic Chemistry - Wiley-VCH (referent din 2007);
(11) Solid State Communication - Elsevier Science (referent din 2007);
(12) *Small* - Wiley-VCH (referent din 2007);
(13) Journal of Alloys and Compounds - Elsevier Science (referent din 2007);
(14) Physica B - Elsevier Science (referent din 2007);
(15) Europhysics Letters – European Physical Society (referent din 2006);
(16) Materials Science and Engineering B: Solid State for Advanced Technology - Elsevier Science (referent din 2006);
(17) Journal of Materials Science and Technology – Chinese Academy of Science (referent din 2006);
(18) Journal of Magnetism and Magnetic Materials - Elsevier Science (referent din 2005);
(19) Materials Chemistry and Physics - Elsevier Science (referent din 2005);
(20) Journal of Materials Science – Kluwer Academic (referent din 2005);
(21) European Journal of Chemical Physics and Physical Chemistry) – WILEY – VCH (referent din 2004);
(22) Materials Research Bulletin – Elsevier Science (referent din 2004);
etc…

- ***Invitat ca membru în societăţi/asociaţii profesionale/ştiinţifice;***

*- **internaţionale:***

(1) American Nano Society (2011);

(2) European Physical Society (EPS) (2011);

(3) Membru în International Biographical Centre (IBC), Cambridge, England ("As a eminent professional in the field of science") (2009);

(4) U.K. Magnetics Society (2005);

(5) Membership in the American Association for the Advancement of Science (AAAS) ("in recognition of standing in the greater scientific community") (2003);

- ***naţionale:***

(6) Societatea Română de Fizică (SRF) (reînscris în 2011);

(7) Asociaţia Română de Materiale "Teodor Segărceanu" (2005);

(8) Societatea Română de Materiale Magnetice (SRMM) (2005);

- **Alte elemente de recunoaştere:**

- ***Editor la reviste ştiinţifice din străinătate*** (INT. J. MOLEC. SCI. (WOS, IF 6.208, zona rosie (Q1)), APPL. SCI. (WOS, IF 2.838, zona galbena (Q2)), Editorial Board: Journal of Nanoscience, Hindawi Publishing);
- ***Editor invitat pentru cărţi ştiinţifice în edituri internationale*** (WILEY, SPRINGER, CAMBRIDGE Publishing Scholars);
- ***Editor invitat pentru volume ştiinţifice de cercetare în edituri internaţionale*** (WILEY, SPRINGER, MDPI-Switzerland);
- ***Invitat pentru a scrie capitole în volume de cercetare ştiinţifică (internaţionale)*** (SPRINGER, WILEY, FRANCIS & TAYLOR);
- ***Expert/ evaluator*** **ARACIS** (Registrul Naţional al Evaluatorilor (RNE) 2012);
- ***Expert stiintific/ evaluator proiecte de cercetare*** (**internationale**: Czech Science Foundation (GACR), CZECH); **naţionale**: ANCS/CNCSIS, UEFISCDI);
- **Selected Paper**: I. Hrianca, **C. Caizer**, Z. Schlett, *Dynamic magnetic behavior of Fe_3O_4 colloidal nanoparticles* (source J. Appl. Phys. 92 (2002) 2125), by the expert editors from American Institute of Physics (AIP) and American Physical Society (APS), for **Virtual Journal of Nanoscale Science & Technology** (Vir. J. Nan. Sci. & Techn., 6 (7) (2002);

Conf. Dr. Dr. Habil. CAIZER Costică

Timişoara, 15.05.2023

Anexe la CV:

- Lista de lucrări;
- Fişa standardelor academice CNATDCU – Fizică – UVT;

Conferenţiar Dr. CAIZER Costică
Dr. Habil.
Conducător de Doctorat - Fizică

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https://physics.uvt.ro/conf-dr-caizer-costica/
https://www.brainmap.ro/costica-caizer

LISTA LUCRĂRILOR PUBLICATE

(i) *Teza de Abilitare*

Titlu*: *MAGNETIC PROPERTIES OF FERRIMAGNETIC NANOPARTICLES AND NANOCOMPOSITES WITH APPLICATION IN NANOBIOTECHNOLOGY

- UNIVERSITATEA "AL. I. CUZA" IASI, sept. 2015;

Teza de Doctorat

Titlu*: *COMPORTAREA MAGNETICĂ A SISTEMELOR DE NANOPARTICULE FERIMAGNETICE DISPERSE. APLICAȚII LA GENERAREA OSCILAȚIILOR DE RADIOFRECVENȚĂ DE PUTERE

- **cu cea mai înaltă distincţie: *SUMMA CUM LAUDE***;
- UNIVERSITATEA DE VEST DIN TIMIŞOARA, 2003;

(ii) Lista articolelor *în extenso* publicate în reviste ISI (WoS)

[1] **Costica Caizer**, Isabela Simona Caizer-Gaitan, Claudia Geanina Watz, Cristina Adriana Dehelean, Tiberiu Bratu and Codruta Soica, *High Efficacy on the Death of Breast Cancer Cells Using SPMHT with Magnetite Cyclodextrins Nanobioconjugates*, PHARMACEUTICS, 15(4) (2023) 1145 (pp. 1-20). **Impact Factor: 6,525, zona ROSIE (Q1)**; Five Years Impact Factor: 7,227;

[2] **Costica Caizer**, Isabela Simona Caizer, Roxana Racoviceanu, Claudia Geanina Watz, Marius Mioc, Cristina Adriana Dehelean, Tiberiu Bratu, Codruta Soica, *The Fe_3O_4-PAA–(HP-γ-CDs) Biocompatible Ferrimagnetic Nanoparticles for Increasing Efficacy in Superparamagnetic Hyperthermia*, NANOMATERIALS, 12(15) (2022) 2577 (pp.1-28). **Impact Factor: 5,719, zona ROSIE (Q1)**; Five Years Impact Factor: 5,81;

[3] Isabela Simona Caizer, **Costica Caizer**, *Superparamagnetic Hyperthermia Study with Cobalt Ferrite Nanoparticles Covered with γ-Cyclodextrins by Computer Simulation for Application in Alternative Cancer Therapy*, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 23(8) (2022) 4350 (pp. 1-25). **Impact Factor: 6,208, zona ROSIE (Q1)**; Five Years Impact Factor: 6,628;

[4] **Costica Caizer**, *Computational Study Regarding CoxFe3-xO4 Ferrite Nanoparticles with Tunable Magnetic Properties in Superparamagnetic Hyperthermia for Effective Alternative Cancer Therapy*, NANOMATERIALS, 11(12) (2021) 3294 (pp. 1-20). **Impact Factor: 5,719, zona ROSIE (Q1)**; Five Years Impact Factor: 5,81;

[5] **Costica Caizer**, Isabela Simona Caizer, *Study on Maximum Specific Loss Power in Fe3O4 Nanoparticles Decorated with Biocompatible Gamma-Cyclodextrins for Cancer Therapy with Superparamagnetic Hyperthermia*, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 22(18) (2021) 10071 (pp. 1-22). **Impact Factor: 6,208, zona ROSIE (Q1)**; Five Years Impact Factor: 6,628;

[6] **Costica Caizer**, *Specific Loss Power and Heating Temperature in $CoFe_2O_4$ Nanoparticles as Possible Candidate for Alternative Cancer Therapy by Superparamagnetic Hyperthermia*, **Applied Sciences**, 11(12) (2021) 5505 (pp. 1-22); **Impact Factor: 2.838, zona GALBENA (Q2)**; Five Years Impact Factor: 2,921;

[7] **Costica Caizer**, *Optimization study on specific loss power in superparamagnetic hyperthermia with magnetite nanoparticles for high efficiency in alternative cancer therapy*, NANOMATERIALS, 11(1) (2020) 40 (pp. 1-20); **Impact Factor: 5,719, zona ROSIE (Q1)**; Five Years Impact Factor: 5,81;

[8] **C. Caizer**, *Computational study on superparamagnetic hyperthermia with biocompatible SPIONs to destroy the cancer cells*, **Journal of Physics** (IOP) (J. Phys.: Conf. Ser. 521 (2014) 012015).

[9] M. Stoia, **C. Caizer**, M. Ştefănescu, P. Barvinschi, L. Barbu-Tudoran, *Structure, morphology and magnetic properties of Ni,Zn ferrite/ silica nanocomposites with different compositions*, **Journal of Sol-Gel Science and Technology** (J. Sol-Gel Sci. Techn., 58 (2011) 126);

[10] M. Ştefănescu, M. Stoia, **C. Caizer**, T. Dippong, P. Barvinschi, *Preparation of CoxFe3-x O4 nanoparticles by thermal decomposition of some organo-metallic precursors*, **Journal of Thermal Aanalysis and Calorimetry** (J. Therm. Anal. Calorim., 97 (2009) 245);

[11] M. Ştefănescu, M. Stoia, **C. Caizer**, O. Ştefănescu, *Preparation of* $x(Ni_{0.65}Zn_{0.35}Fe_2O_4)/ (1-x)SiO_2$ *nanocomposite powders by a modified sol-gel method*, **Materials Chemistry and Physics** (Mater. Chem. Phys., 113 (2009) 342 – 348);

[12] **C. Caizer**, *Magnetic properties of the novel nanocomposite* $(Zn_{0.15}Ni_{0.85}Fe_2O_4)_{0.15}/ (SiO_2)_{0.85}$ *at room temperature*, **Journal of Magnetism and Magnetic Materials** (J. Magn. Magn. Mater., 320 (2008) 1056 – 1062);

[13] M. Stoia, **C. Caizer**, M. Ştefănescu, P. Barvinschi, I. Julean, *Obtaining of Ni0.65Zn0.35Fe2O4/SiO2 nanocomposites by thermal decomposition of complex compounds embedded in silica matrix*, **Journal of Thermal Analysis and Calorimetry** (J. Therm. Anal. Calorim., 88 (2007) 193 – 200);

[14] **C. Caizer**, V. Tura, *Magnetic relaxation/stability of Co ferrite nanoparticles embedded in amorphous silica particles*, **Journal of Magnetism and Magnetic Materials** (J. Magn. Magn. Mater., 301 (2006) 513 – 520);

[15] M. Ştefănescu, **C. Caizer**, M. Stoia, O. Ştefănescu, *Ultrafine, perfectly spherical Ni-Zn ferrite nanoparticles, with ultranarrow distribution, isolated in a silica matrix, prepared by a novel synthesis method in the liquid phase*, **Acta Materialia** (Acta Mater., 54 (2006) 1249 – 1256);

[16] **C. Caizer**, *The effect of external magnetic field on the thermal relaxation of magnetization,* **Journal of Physics: Condensed Matter** (J. Phys.: Condens. Matter 17 (2005) 2019 – 2034);

[17] M. Ştefănescu, **C. Caizer**, M. Stoia, O. Ştefănescu, *Ni,Zn/SiO_2 ferrite nanocomposites prepared by an improved sol-gel method and their characterisation*, **Journal of Optoelectronics and Advanced Materials** (J. Optoelectron. Adv. M., 7 (2005) 607 – 614;

[18] **C. Caizer**, *Deviation from Bloch law in the case of surfacted nanoparticles,* **Applied Physics A** (Appl. Phys. A, 80 (2005) 1745 - 1751);

[19] **C. Caizer**, *T^2 law for magnetite-based ferrofluids*, **Journal of Physics: Condensed Matter** (J. Phys.: Condens. Matter 15 (2003) 765 – 776);

[20] **C. Caizer**, M. Popovici, C. Savii, *Spherical $(Zn_\delta Ni_{1-\delta}Fe_2O_4)_\gamma$ nanoparticles in an amorphous $(SiO_2)_{1-\gamma}$ matrix, prepared with the sol-gel method*, **Acta Materialia** (Acta. Mater., 51 (2003) 3607 – 3616);

[21] **C. Caizer**, *Saturation magnetization of γ-Fe_2O_3 nanoparticles dispersed in a silica matrix*, **Physica B** (Physica B, 327 (2003) 27 – 33);

[22] **C. Caizer**, *Structural and magnetic properties of nanocrystalline $Zn_{0.65}Ni_{0.35}Fe_2O_4$ powder obtained from heteropolynuclear complex combination*, **Materials Science & Engineering B – Solid State Materials for Advanced Technology** (Mat. Sci. Eng. B, 100 (2003) 63;

[23] **C. Caizer**, I. Hrianca, *Dynamic magnetization of γ-Fe_2O_3 nanoparticles isolated in an SiO_2 amorphous matrix,* **European Physical Journal B** (Eur. Phys. J. B, 31 (2003) 391 – 400);

[24] **C. Caizer**, I. Hrianca, *Temperature dependence of saturation magnetization of γ-Fe_2O_3/SiO_2 magnetic nanocomposite,* **Annalen der Physik** (Ann. Phys. 12 (2003) 115 – 122;

[25] **C. Caizer**, M. Ştefănescu, *Nanocrystallite size effect on σ_s and H_c in nanoparticle assemblies*, **Physica B** (Physica B, 327 (2003) 129 – 134);

[26] **C. Caizer**, C. Savii, M. Popovici, *Magnetic behaviour of iron oxide nanoparticles dispersed in a silica matrix,* **Materials Science & Engineering B – Solid State Materials for Advanced Technology** (Mat. Sci. Eng. B: Solid, 97 (2003) 129 – 134);

[27] M. Popovici, C. Savii, D. Niznansky, J. Subrt, J. Bohacek, **C. Caizer**, C. Enache, C. Ionescu, *Nanocrystalline Ni-Zn ferrites prepared by sol-gel method*, **Journal of Optoelectronics and Advanced Materials** (J. Optoelectron. Adv. M., 5 (2003) 251 – 256);

[28] I. Hrianca, **C. Caizer**, Z. Schlett, *Dynamic magnetic behavior of Fe_3O_4 colloidal nanoparticles*, **Journal of Applied Physics** (J. Appl. Phys., 92 (2002) 2125 – 2132);

[29] I. Hrianca, **C. Caizer**, Z. Schlett, *Dynamic magnetic behavior of Fe_3O_4 colloidal nanoparticles*, **Nanoscale Science & Technology** (Vir. J. Nan. Sci. & Techn., 6 (7) (2002) (Electronic Journal), http://www.vjnano.org/);
Selected Paper (source J. Appl. Phys. 92 (2002) 2125) by the expert editors from American Institute of Physics (AIP) and American Physical Society (APS).

[30] **C. Caizer**, *Thermal dependence of the saturation magnetisation of $Mn_{0.6}Fe_{0.4}Fe_2O_4$ nanoparticles in a ferrofluid*, **Solid State Communication** (Solid Satate Commun., 124 (2002) 52;

[31] C. Savii, M. Popovici, C. Enache, J. Subrt, D. Niznansky, S. Bakardzieva, **C. Caizer**, I. Hrianca, *$Fe_2O_3 – SiO_2$ composites obtained by sol-gel synthesis*, **Solid State Ionics** (Solid Sate Ionics, 151 (2002) 219 – 227);

[32] R. Kohnlechner, Z. Schlett, M. Lungu, **C. Caizer**, *A new wet eddy-current separator*, **Resources Conservation & Recycling** (Resour. Conserv. Recy., 37 (2002) 55 – 60);

[33] **C. Caizer**, M. Ştefănescu, *Magnetic Characterization of Nanocrystalline Ni-Zn Ferrite Powder Prepared by the Glyoxylate Precursor Method*, **Journal of Physics D: Applied Physics** (J. Phys. D: Appl. Phys., 35 (2002) 3035 – 3040);

[34] **C. Caizer**, *Magnetic behaviour of $Mn_{0.6}Fe_{0.4}Fe_2O_4$ nanoparticles in ferrofluid at low temperatures*, **Journal of Magnetism and Magnetic Materials** (J. Magn. Magn. Mater., 251 (2002) 304 – 315);

[35] **C. Caizer**, M. Ştefănescu, C. Muntean, I. Hrianca, *Studies and magnetic properties of Ni-Zn ferrite synthesis from the glyoxylates complex combination*, **Journal of Optoelectronics and Advanced Materials** (J. Optoelectron. Adv. M., 3 (2001) 919 – 924);

[36] I. Hrianca, **C. Caizer**, *Researches regarding load adaptation of a radiofrequency generator working in pulses*, **Romanian Journal of Physics** (Rom. Journ. Phys., 46 (2001) 139 – 149);

[37] I. Hrianca, **C. Caizer**, C. Savii, M. Popovici, *Magnetic and structural properties of γ-Fe_2O_3 nanoparticles dispersed in a silica matrix*, **Journal of Optoelectronics and Advanced Materials** (J. Optoelectron. Adv. M., 2 (2000) 634 – 638);

- ***Articole de cercetare publicate în Analele Univ. şi Proceedings (extras)***

[38] I.S. Caizer, **C. Caizer**, *Cobalt Doped Fe_3O_4 Nanoparticles for Magnetic Hyperthermia Application*, **AIP Conference Proc.** (TIM 20-21 Physics Conference), 2022 (BDI, Web of Science), accepted.

[39] M. Stoia, M. Ştefănescu, **C. Caizer**, O. Ştefănescu, *Synthesis of magnetic nanocomposites x%(Ni0.75Zn0.25Fe2O4)/(100-x)%SiO2 by a sol-gel method*, **Annals of West University of Timisoara**, Series of Chemistry (Ann. West Univ. Timişoara, Chem., 16(4) (2007) 87-94).

[40] **C. Caizer**, M. Ştefănescu, M. Stoia, P. Barvinschi, O. Ştefănescu, *Ultrafine magnetic particles embedded in a silica matrix obtained by a new chemical route of synthesis*, **Annals of West University of Timisoara, Physics** 45 (2004) 135-138.

[41] **C. Caizer**, M. Ştefănescu, P. Barvinschi, *Unusual magnetic behaviour of nickel-zinc ferrite nanoparticles in a silica matrix, obtained through the hybrid sol-gel method*, **Annals of University of Petroşani, Physics** (Ann. Univ. Petrosani, Phys.6 (2004) 111 – 118).

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   Autor: **C. Caizer**

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9. Title: ***Nanoparticles in Nanobiotechnology and Nanomedicine***

MDPI, Switzerland, 2022-2023

Editor: **Costică Caizer**

Special Issue in: **INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES** (ISI Web of Science, IF: 6,208, zona ROŞIE)

Section: Molecular Nanoscience

- <u>după dobândirea atestatului de abilitare</u>;

10. Title: ***Applications in Nanotechnology and Nanomedicine of Magnetic Nanomaterials***

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Editor: **Costică Caizer**

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(v) Lista capitolelor de cărţi

- **peer review, în edituri internaţionale de prestigiu, recunoscute Web of Science;**

1. Title: ***Magnetic/Superparamagnetic Hyperthermia in Clinical Trials for Noninvasive Alternative Cancer Therapy***

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3. Title: ***Classical Magnetoliposomes vs. Current Magnetocyclodextrins with Ferrimagnetic Nanoparticles for High Efficiency and Low Toxicity in Noninvasive Alternative Therapy of Cancer by Magnetic/ Superparamagnetic Hyperthermia***

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(vi) Alte lucrări şi contribuţii ştiinţifice

Conferinţe ştiinţifice

- ***Lucrări la Conferinţe Internaţionale (sau cu participare internaţională)*** - *extras*

1. **Costica Caizer**, Isabela-Simona Caizer, Roxana Racoviceanu, Claudia-Geanina Watz, Mioc Marius, Cristina-Adriana Dehelean, Tiberiu Bratu, Codruta-Marinela Soica, *The Fe_3O_4-PAA-(HP-γ-CDs) Biocompatible Ferrimagnetic Nanoparticles for Increasing Efficacy and Reducing Toxicity in Superparamagnetic Hyperthermia: A Promising Approach for Alternative Cancer Therapy*, **3NANO-22 Nano Science/Technology/Biotechnology International Conference**, 20-23 Sept., Roma, 2022.

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3. **C. Caizer**, *3D/2D computational study on magnetic relaxation/stability in linear magnetic field of aligned nanoparticles*, **20th International Conference on Magnetism (ICM2015)**, July 5-10, Barcelona, Spain, 2015. Contribution: Topic 4, Magnetism of nanoscale systems (Magnetic nanoparticles), accepted.

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Timişoara, 12.06.2023

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Nr. crt.	**Titlul capitolului - titlul cărții / titlul Review-ului**	Autori	Editura, an / revista, an, pagini, link	Punctaj $1/n_i^{ef}$
1	**Magnetic/Superparamagnetic hyperthermia in clinical trials for non-invasive alternative cancer therapy** Chapter 18, In: ***Magnetic Nanoparticles in Human Health and Medicine*** Book Series: Nanobiotechnology in Medicine & Health Care Costica Caizer and Mahendra Rai (Eds.), WILEY, UK, 2022 Link: https://onlinelibrary.wiley.com/doi/book/10.1002/9781119754725	**Costică Caizer**	WILEY, UK 2021-2022 (2021 – electronic; 2022 – print) Link: https://onlinelibrary.wiley.com/doi/10.1002/9781119754725.ch18	1
2	**Magnetic Nanoparticles in Alternative Tumors Therapy: Biocompatibility, Toxicity and Safety Compared with Classical Methods** Chapter 16, In: ***Magnetic Nanoparticles in Human Health and Medicine***	**Costică Caizer**, Mahendra Rai	WILEY, UK 2021-2022 (2021 – electronic; 2022 – print) *Link*: https://onlinelibrary.wiley.com/doi/10.1002/9781119754725.ch16	0,5

	Book Series: Nanobiotechnology in Medicine & Health Care Costica Caizer and Mahendra Rai (Eds.), WILEY, UK, 2022			
3	**Classical Magnetoliposomes vs Current Magnetociclodextrins with Ferrimagnetic Nano-particle for High Efficiency and Low Toxicity in Alternative Therapy of Cancer by Magnetic /Superparamagnetic Hyperthermia** Chapter 13, In: ***Magnetic Nanoparticles in Human Health and Medicine*** Book Series: Nanobiotechnology in Medicine & Health Care Costica Caizer and Mahendra Rai (Eds.), WILEY, UK, 2022	**Costică Caizer,** Cristina Dehelean, Codruţa Şoica	WILEY, UK 2021-2022 (2021 – electronic; 2022 – print) *Link*: https://onlinelibrary.wiley.com/doi/10.1002/9781119754725.ch13	0,333
4	**An introduction to magnetic nanoparticles: from bulk to nanoscale magnetism and their applicative potential in human health and medicine** Chapter 1, In: ***Magnetic Nanoparticles in Human Health and Medicine*** Book Series: Nanobiotechnology in Medicine & Health Care Costica Caizer and Mahendra Rai (Eds.), WILEY, UK, 2022	**Costică Caizer**, Shital Bonde, Mahendra Rai	WILEY, UK 2021-2022 (2021 – electronic; 2022 – print) *Link*: https://onlinelibrary.wiley.com/doi/abs/10.1002/9781119754725.ch1	0,333
5	**Magnetic Nanoparticle Nanoformulations for Alternative Therapy of Cancer by Magnetic/ Superparamagnetic Hyperthermia**	**Costică Caizer**, Cristina Dehelean, Dorina Coricovac, Isabela Caizer, Codruţa Şoica	SPRINGER, 2020 pp 503-530; *Link*: https://link.springer.com/chapter/10.1007/978-3-030-41858-8_22	0,2
6	**Magnetic/Superparamagnetic Hyperthermia as an Effective Noninvasive Alternative Method for Therapy of Malignant Tumors** Chapter *in*: ***Nanotheranostics: Applications and Limitations***	**Costica Caizer**	SPRINGER, 2019 pp 297-335; *Link*: https://link.springer.com/chapter/10.1007/978-3-030-29768-8_14	1

7	**Magnetic Anisotropy of Nanocomposites Made of Magnetic Nanoparticles Dispersed in Solid Matrices** Chapter 11 *in*: ***Advances in Nanostructured Composites*** (Mahmood Aliofkhazraei (Ed.)) ISBN 9781482236637 pp. 245-	**Costica Caizer**	TAYLOR &FRANCIS -CRC Press, 2019 Link: https://www.taylorfrancis.com/chapters/edit/10.1201/9781315118406-11/magnetic-anisotropy-nanocomposites-made-magnetic-nanoparticles-dispersed-solid-matrices-costica-caizer	1
8	**Magnetic Hyperthermia - Using Magnetic Metal Nanoparticles with Potential in Cancer Therapy** Chapter *in*: ***Metal and Metal Nanoparticles in Pharma*** (Mahendra Rai and Ranjita Shegokar (Eds.)) Print ISBN978-3-319-63789-1 pp. 193-218	**Costica Caizer**	SPRINGER, 2017 *Link*: https://link.springer.com/chapter/10.1007/978-3-319-63790-7_10	1
9	**Biocompatible Oxide Magnetic Nanoparticles with Metal Ions as Potential Therapeutic in Cancer**, Chapter *in*: ***Metal and Metal Nanoparticles in Pharma*** (Mahendra Rai and Ranjita Shegokar (Eds.)) Print ISBN978-3-319-63789-1 pp. 219-256	**Costica Caizer**, Alice-Sandra Buteica, Ioan Mindrila	SPRINGER, 2017 *Link*: https://link.springer.com/chapter/10.1007/978-3-319-63790-7_11	0,333
10	**Nanoparticles Size Effect on Some Magnetic Properties**, Chapter *in*: ***Handbook of Nanoparticles*** (Mahmood Aliofkhazraei (Ed.)) Print ISBN 978-3-319-15337-7 pp. 475-519	**Costica Caizer**	SPRINGER, 2016 *Link*: https://link.springer.com/referenceworkentry/10.1007/978-3-319-15338-4_24	1
Punctaj total indicator **A_2**				**6,699**

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

Nr. crt.	**Titlul**	Editori	Editura, an, link (dacă este cazul)	Punctaj $0.5/n_i^{ef}$
1	***Nanoparticles in Nanobiotechnology and Nanomedicine***	**Costica Caizer**	MDPI, Switzerland, 2022-2023	0,5

	Special Issue in **INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES** (ISI Web of Science, IF: 6,208, zona ROŞIE), Section: Molecular Nanoscience (electronic)		Link: https://www.mdpi.com/journal/ijms/special_issues/43WY11UNJ1	
2	***Applications in Nanotechnology and Nanomedicine of Magnetic Nanomaterials*** Special Issue in **APPLIED SCIENCES**-BASEL (ISI Web of Science, IF: 2,838, zona GALBENĂ), Section: Nanotechnology and Applied Nanosciences (electronic)	**Costica Caizer**	MDPI, Switzerland, 2022-2023 Link: https://www.mdpi.com/journal/applsci/special_issues/Applications_Nanotechnology_Nanomedicine_Magnetic_Nanomaterials	0,5
3	***Magnetic Nanoparticles in Human Health and Medicine*** Book Series: **Nanobiotechnology in Medicine & Health Care**	**Costica Caizer** and Mahendra Rai	WILEY, UK, 2021-2022 512 pages; (2021 – electronic; 2022 – print) Link: https://www.wiley.com/en-ie/Magnetic+Nanoparticles+in+Human+Health+and+Medicine:+Current+Medical+Applications+and+Alternative+Therapy+of+Cancer-p-9781119754749	0,25
4	***Nano- and Biomagnetism*** Special Issue in **APPLIED SCIENCES**-BASEL (ISI Web of Science, IF: 2,838, zona GALBENĂ), Section: Nanotechnology and Applied Nanosciences (electronic)	**Costica Caizer**	MDPI, Switzerland, 2021 Link: https://www.mdpi.com/journal/applsci/special_issues/Nano-_Biomagnetism	0,5
Punctaj total indicator $\mathbf{A_3}$				**1,75**

A4 - Cărți, manuale, îndrumătoare de laborator în edituri naționale sau alte edituri internaționale ca autor ...

Nr. crt.	**Titlul**	Autori	Editura, an, link (dacă este cazul)	Punctaj $0.5/n_i^{ef}$
1	**Bioelectromagnetism. Lucrări de laborator** 168 pagini; ISBN: 978-973-132-080-9 -cu referenţi şi ISBN, în editură recunoscută CNCS; - îndrumător de laborator, Fizică medicală;	**C. Caizer**	Ed. Eurobit, 2013 www.bcut.ro şi document anexat (Anexa 1)	0,5
2	**Fizică experimentală (II)** 262 pagini; ISBN: 978-973-132-016-8 -cu referenţi şi ISBN, în editură recunoscută CNCS; - curs, toate secţiile;	**C. Caizer**	Ed. Eurobit, 2012 www.bcut.ro şi document anexat (Anexa 1)	0,5
3	**Nano-biomagnetism** 286 pagini; ISBN: 978-973-125-337-4 -cu referenţi şi ISBN, în editură recunoscută CNCSIS; - curs, master;	**C. Caizer**	Ed. Universităţii de Vest, 2010 www.bcut.ro şi document anexat (Anexa 1)	0,5
4	**Impulsuri electrice. Aplicaţii în circuite electrice, dispozitive electronice şi magnetism tehnic** 268 pagini; ISBN: 978-973-52-0064-0 -cu referenţi şi ISBN, în editură recunoscută CNCSIS; - carte;	**C. Caizer**	Ed. Mirton, 2007 www.bcut.ro şi document anexat (Anexa 1)	0,5
5	**Nano-fluide magnetice** 200 pagini; ISBN: 973-620-186-4 -cu referenţi şi ISBN, în editură recunoscută CNCSIS; - curs, Fizică;	**C. Caizer**	Ed. Eurobit, 2004 www.bcut.ro şi document anexat (Anexa 1)	0,5
6	**Sisteme de nanoparticule ferimagnetice disperse. Comportare magnetică** 166 pagini; ISBN: 973-8433-73-8 -cu referenţi şi ISBN, în editură recunoscută CNCSIS; - carte;	**C. Caizer**	Ed. Universităţii de Vest Timişoara, 2004 www.bcut.ro şi document anexat (Anexa1)	0,5

7	**Electricitate şi magnetism: Lucrări experimentale** 212 pagini; ISBN: 973-8181-38-0 -cu ISBN, în editura recunoscută CNCSIS; - îndrumător de laborator, toate secţiile;	**C. Caizer**, I. Hrianca	Ed. Eurobit, 2001 www.bcut.ro şi document anexat (Anexa 1)	0,25
Punctaj total indicator **A_4**				**3,250**

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

Nr. crt.	**Titlul**	Autori	Revista, editura, an, link (dacă este cazul)	Punctaj $0.2 / n_i^{ef}$
1	*Cobalt Doped Fe_3O_4 Nanoparticles for Magnetic Hyperthermia Application*	I.S. Caizer, **C. Caizer**	AIP Conference Proc. (TIM 20-21 Physics Conference), AIP Publishing, 2023 (accepted); Link: https://pubs.aip.org/aip/acp/issue/2218/1	0,1
2	*Computational study on superparamagnetic hyperthermia with biocompatible SPIONs to destroy the cancer cells*	**C. Caizer**	Journal of Physics: Conf. Ser. IOP Publishing (J. Phys.: Conf. Ser. 521 (2014) 012015); Link: ISI Clarivate Analytics - WoS	0,2
Punctaj total indicator **A_6**				**0,3**

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 sau responsabil)	Autoritatea contractantă, instituția, link (după cum e cazul)	Punctaj 0.5

1	*Composites of Inorganic Nanotubes and Polymers* (COINAPO) Project suport COST Action, MP0902, 2009 - 2013;	Responsabil WG2, partener (UVT)	EUROPEAN COMISSION (EU RTD Framework Programme) Link: http://www.cost.eu/COST_Actions/mpns/MP0902 şi document anexat (Anexa 2)	0,5
2	Proiectul pentru Învăţământul Rural (PIR), 2005 - 2007	Responsabil (UVT - Fizica)	MEN - conform document anexat – UVT (Anexa 3);	0,5
Punctaj total indicator **A_9**				**1,00**

A10 – Director /responsabil pentru proiecte de cercetare în valoare V_i euro câștigate prin competiție națională sau internațională (proiectele de la punctul A9 se exclud). 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.

Nr. crt.	**Titlul proiectului**	Calitatea (director sau responsabil)	Autoritatea contractantă, link (dacă este cazul)	Punctaj V_i /100.000
1	Proiect cercetare PN-III-P2-2.1-PED-2019-3067; 263PED/2020; 2020 – 2022 *Nanobiostructuri inovatoare bazate pe nanoparticule ferimagnetice bioconjugate cu ciclodextrine pentru creşterea eficacităţii şi reducerea toxicităţii în terapia cancerului prin hipertermie superparamagnetică*	**Director, coordonator parteneriat;** **-investiţie 52.000 EUR;**	UEFISCDI Suma: 600.000 LEI Link: https://uefiscdi.gov.ro/resource-829440-d1_finale.pdf?&wtok=&wtkps=XU5LbsMgEL0L68ZlQBQ83uQEUaScwDEQUZmAjRNLiXz3AoqUtqt58356PUp8JuRIktOkSygyhH4IswQfvZ2iFrM63+34rc9tSCCnxUX71arH7mLXuDx24M04MVrCgMSVy5AI+QL7hXR9Vp5V9r+f7HWogLbdtt	1,24 600.000 / 4,8371 = 124.041 EUR; - curs mediu BNR pe 2020: 1 EUR = 4,8371 lei;

			UNg06F4pKVMolE63g9nj65pEwxRYWqpTn6Zj4YgOAAHHidIGrq8C8DFMlfY562mgJ4Rj7o22iaMF+am7EuDdo1d2fWpp8XN4SRdNsP&wchk=9d595b5dcd79e79a4def0cf0065d5c03e240d66d (pozitia 9) + dovada anexata	
2	Proiect cercetare PNCDI-II, PARTENERIATE D7, 71-026/ 2007-2010;	**Director, coordonator parteneriat; -investiţie 145.000 EUR;**	ANCS-CNMP Suma: 2.000.000 RON - conform document anexat (Anexa 4);	5,993 (curs mediu BNR 2007: 1 EUR=3,3373 RON 599.287 EUR;
3	Grant cercetare CNCSIS tip A, Cod 728/ 2006-2008;	**Director -investiţie 5.000 EUR;**	CNCSIS Suma: 450.000.000 ROL -conform document anexat (Anexa 5);	0,128 (curs mediu BNR 2006: 1 EUR=3,5245 RON
4	Contract cercetare nr. 6891/2005; Subgrant CNCSIS tip A	**Director**	CNCSIS-UPT Suma: 25.000.000 ROL -conform document anexat (Anexa 6);	
5	Grant cercetare CNCSIS A, Cod 648/ 2005-2006;	Responsabil echipă UVT-Fizică; -convenţie de colaborare: UPT	CNCSIS	
6	Grant cercetare CNCSIS A, Cod 583/ 2003-2005;	Responsabil echipă UVT-Fizică; -convenţie de colaborare: Academia Română - Filiala Timişoara	CNCSIS	
7	Grant cercetare ANSTI, AT, nr. 6142/2000	Responsabil echipă UVT-Fizică; -convenţie de colaborare: Academia Română - filiala Timişoara	ANCS-ANSTI	
Punctaj total indicator $\mathbf{A_{10}}$				**7,361**

Punctaj total realizat pentru activitatea didactică și profesională (A):

$$A = \sum_{i=1}^{10} A_i$$ **= A2+A3+A4+A6+A9+A10 = 20,360**

Criteriu minimal pentru activitatea didactică şi profesională (A) ;

Abilitare: A ≥ 2

2. Activitatea de cercetare

2.1 – Articole științifice originale *în extenso* ca autor (ISI - WOS)

Nr.	**Referinţa bibliografică** (conform ISI Web of Science)	AIS	n_i	n^{ef}_i	AIS_i/n^{ef}_i
1	**Costica Caizer**, Isabela Simona Caizer-Gaitan, Claudia Geanina Watz, Cristina Adriana Dehelean, Tiberiu Bratu and Codruta Soica, *High Efficacy on the Death of Breast Cancer Cells Using SPMHT with Magnetite Cyclodextrins Nanobioconjugates*, PHARMACEUTICS, 15(4) (2023) 1145 (pp. 1-20). **Impact Factor: 6,525, zona ROSIE (Q1)**; Five Years Impact Factor: 7,227;	0,879 (2021)	6	5,5	0,160
2	**Costica Caizer**, Isabela Simona Caizer, Roxana Racoviceanu, Claudia Geanina Watz, Marius Mioc, Cristina Adriana Dehelean, Tiberiu Bratu, Codruta Soica, *The Fe_3O_4-PAA–(HP-γ-CDs) Biocompatible Ferrimagnetic Nanoparticles for Increasing Efficacy in Superparamagnetic Hyperthermia*, NANOMATERIALS, 12(15) (2022) 2577 (pp.1-28) **Impact Factor: 5,719, zona ROSIE (Q1)**; Five Years Impact Factor: 5,81;	0,738 (2021)	8	6,5	0.114
3	Isabela Simona Caizer, **Costica Caizer**, *Superparamagnetic Hyperthermia Study with Cobalt Ferrite Nanoparticles Covered with γ-Cyclodextrins by Computer Simulation for Application in Alternative Cancer Therapy*, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 23(8) (2022) 4350 (pp. 1-25). **Impact Factor: 6,208, zona ROSIE (Q1)**; Five Years Impact Factor: 6,628;	1,064 (2021)	2	2	0,532
4	**Costica Caizer**, *Computational Study Regarding CoxFe3-xO4 Ferrite Nanoparticles with Tunable Magnetic Properties in Superparamagnetic Hyperthermia for Effective Alternative Cancer Therapy*, NANOMATERIALS, 11(12) (2021) 3294	0,738	1	1	0,738

	(pp. 1-20). **Impact Factor: 5,719, zona ROSIE (Q1)**; Five Years Impact Factor: 5,81;				
5	**Costica Caizer**, Isabela Simona Caizer, *Study on Maximum Specific Loss Power in Fe3O4 Nanoparticles Decorated with Biocompatible Gamma-Cyclodextrins for Cancer Therapy with Superparamagnetic Hyperthermia*, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 22(18) (2021) 10071 (pp. 1-22). **Impact Factor: 6,208, zona ROSIE (Q1)**; Five Years Impact Factor: 6,628;	1,064	2	2	0,532
6	**Costica Caizer**, *Specific Loss Power and Heating Temperature in $CoFe_2O_4$ Nanoparticles as Possible Candidate for Alternative Cancer Therapy by Superparamagnetic Hyperthermia*, **Applied Sciences**, 11(12) (2021) 5505 (pp. 1-22); Impact Factor: 2.838, zona GALBENA (Q2) Five Years Impact Factor: 2,921;	0,409	1	1	0,409
7	**Costica Caizer**, *Optimization study on specific loss power in superparamagnetic hyperthermia with magnetite nanoparticles for high efficiency in alternative cancer therapy*, NANOMATERIALS, 11(1) (2021) 40 (pp. 1-20); **Impact Factor: 5,719, zona ROSIE (Q1)**; Five Years Impact Factor: 5,81;	0,738	1	1	0,738
8	**C. Caizer**, *Computational study on superparamagnetic hyperthermia with biocompatible SPIONs to destroy the cancer cells*, **Journal of Physics** (IOP) (J. Phys.: conf. ser. 521 (2014) 012015).		1	1	
9	M. Stoia, **C. Caizer**, M. Ştefănescu, P. Barvinschi, L. Barbu-Tudoran, *Characterisation of nickel-zinc ferrite/silica nanocomposites with low ferrite concentration obtained by an improved modified sol-gel method*, **Journal of Sol-Gel Science and Technology** (J. Sol-Gel Sci. Techn., 58 (2011) 126 – 134).	0,5	5	5	0,1
10	M. Ştefănescu, M. Stoia, **C. Caizer**, O. Ştefănescu, *Preparation of $x(Ni_{0.65}Zn_{0.35}Fe_2O_4)/(1-x)SiO_2$ nanocomposite powders by a modified sol-gel method*, **Materials Chemistry and Physics** (Mater. Chem. Phys., 113 (2009) 342 – 348).	0,632	4	4	0,158
11	M. Ştefănescu, M. Stoia, **C. Caizer**, T. Dippong, P. Barvinschi, *Preparation of CoxFe3-xO4 nanoparticles by thermal decomposition of some organo-metallic precursors*, **Journal of Thermal Analysis and Calorimetry** (J. Therm. Anal.	0,224	5	5	0,0448

	Calorim., 97 (2009) 245 – 250).				
12	**C. Caizer**, *Magnetic properties of the novel nanocomposite* $(Zn_{0.15}Ni_{0.85}Fe_2O_4)_{0.15}/(SiO_2)_{0.85}$ *at room temperature*, **Journal of Magnetism and Magnetic Materials** (J. Magn. Magn. Mater., 320 (2008) 1056 – 1062).	0,46	1	1	0,46
13	M. Stoia, **C. Caizer**, M. Ştefănescu, P. Barvinschi, I. Julean, ***Obtaining of Ni0.65Zn0.35Fe2O4/SiO2 nanocomposites by thermal decomposition of complex compounds embedded in silica matrix***, ***Journal of Thermal Analysis and Calorimetry*** (J. Therm. Anal. Calorim., 88 (2007) 193 – 200).	0,226	5	5	0,0452
14	**C. Caizer**, V. Tura, *Magnetic relaxation/stability of Co ferrite nanoparticles embedded in amorphous silica particles*, **Journal of Magnetism and Magnetic Materials** (J. Magn. Magn. Mater., 301 (2006) 513 – 520).	0,5	2	2	0,25
15	M. Ştefănescu, **C. Caizer**, M. Stoia, O. Ştefănescu, *Ultrafine, perfectly spherical Ni-Zn ferrite nanoparticles, with ultranarrow distribution, isolated in a silica matrix, prepared by a novel synthesis method in the liquid phase*, **Acta Materialia** (Acta Mater., 54 (2006) 1249 – 1256).	1,9	4	4	0,475
16	**C. Caizer**, *Deviation from Bloch law in the case of surfacted nanoparticles*, **Applied Physics A** (Appl. Phys. A, 80 (2005) 1745 – 1751).	0,8	1	1	0,8
17	M. Ştefănescu, **C. Caizer**, M. Stoia, O. Ştefănescu, *Ni,Zn/*SiO_2 *ferrite nanocomposites prepared by an improved sol-gel method and their characterisation*, **Journal of Optoelectronics and Advanced Materials** (J. Optoelectron. Adv. M., 7 (2005) 607 – 614).	0,12	4	4	0,03
18	**C. Caizer**, *The effect of external magnetic field on the thermal relaxation of magnetization*, **Journal of Physics-Condensed Matter** (J. Phys.: Condens. Matter 17 (2005) 2019 – 2034).	1,1	1	1	1,1
19	**C. Caizer**, M. Popovici, C. Savii, *Spherical* $(Zn_\delta Ni_{1-\delta}Fe_2O_4)_\gamma$ *nanoparticles in an amorphous* $(SiO_2)_{1-\gamma}$ *matrix, prepared with the sol-gel method*, **Acta Materialia** (Acta. Mater., 51 (2003) 3607 – 3616).	2,0	3	3	0,6667
20	**C. Caizer**, *Structural and magnetic properties of nanocrystalline* $Zn_{0.65}Ni_{0.35}Fe_2O_4$ *powder obtained*	0,6	1	1	0,6

	from heteropolynuclear complex combination, **Materials Science and Engineering B-Solid State Materials for Advanced Technology** (Mat. Sci. Eng. B, 100 (2003) 63 – 68).				
21	M. Popovici, C. Savii, D. Niznansky, J. Subrt, J. Bohacek, **C. Caizer**, C. Enache, C. Ionescu, *Nanocrystalline Ni-Zn ferrites prepared by sol-gel method*, **Journal of Optoelectronics and Advanced Materials** (J. Optoelectron. Adv. M., 5 (2003) 251 – 256).	0,19	8	6,5	0,029
22	**C. Caizer**, *Saturation magnetization of γ-Fe_2O_3 nanoparticles dispersed in a silica matrix*, **Physica B** (Physica B, 327 (2003) 27 – 33).	0,4	1	1	0,4
23	**C. Caizer**, M. Ştefănescu, *Nanocrystallite size effect on σ_s and H_c in nanoparticle assemblies*, **Physica B** (Physica B, 327 (2003) 129 – 134).	0,4	2	2	0,2
24	**C. Caizer**, *T^2 law for magnetite-based ferrofluids*, **Journal of Physics-Condensed Matter** (J. Phys.: Condens. Matter 15 (2003) 765 – 776).	1,0	1	1	1,0
25	**C. Caizer**, I. Hrianca, *Dynamic magnetization of γ-Fe_2O_3 nanoparticles isolated in an SiO_2 amorphous matrix*, **European Physical Journal B** (Eur. Phys. J. B, 31 (2003) 391 – 400).	1,0	2	2	1,0
26	**C. Caizer**, C. Savii, M. Popovici, *Magnetic behaviour of iron oxide nanoparticles dispersed in a silica matrix*, **Materials Science and Engineering B-Solid State Materials for Advanced Technology** (Mat. Sci. Eng. B: Solid, 97 (2003) 129 – 134).	0,6	3	3	0,2
27	**C. Caizer**, I. Hrianca, *Temperature dependence of saturation magnetization of γ-Fe_2O_3/SiO_2 magnetic nanocomposite*, **Annalen der Physik** (Ann. Phys. 12 (2003) 115 – 122).	1,0	2	2	0,5
28	**C. Caizer**, M. Ştefănescu, *Magnetic Characterization of Nanocrystalline Ni-Zn Ferrite Powder Prepared by the Glyoxylate Precursor Method*, **Journal of Physics D: Applied Physics** (J. Phys. D: Appl. Phys., 35 (2002) 3035 – 3040).	0,7	2	2	0,35
29	R. Kohnlechner, Z. Schlett, M. Lungu, **C. Caizer**, *A new wet eddy-current separator*, **Resources Conservation & Recycling** (Resour. Conserv. Recy., 37 (2002) 55 – 60).	0,2	4	4	0,05

30	**C. Caizer**, *Magnetic behaviour of $Mn_{0.6}Fe_{0.4}Fe_2O_4$ nanoparticles in ferrofluid at low temperatures*, **Journal of Magnetism and Magnetic Materials** (J. Magn. Magn. Mater., 251 (2002) 304 – 315).	0,7	1	1	0,7
31	C. Savii, M. Popovici, C. Enache, J. Subrt, D. Niznansky, S. Bakardzieva, **C. Caizer**, I. Hrianca, *$Fe_2O_3 – SiO_2$ composites obtained by sol-gel synthesis*, **Solid State Ionics** (Solid Sate Ionics, 151 (2002) 219 – 227).	0,9	8	6,5	0,138
32	I. Hrianca, **C. Caizer**, Z. Schlett, *Dynamic magnetic behavior of Fe_3O_4 colloidal nanoparticles*, **Journal of Applied Physics** (J. Appl. Phys., 92 (2002) 2125 – 2132).	1,4	3	3	0,4667
33	I. Hrianca, **C. Caizer**, Z. Schlett, *Dynamic magnetic behavior of Fe_3O_4 colloidal nanoparticles*, **Virtual Journal of Nanoscale Science & Technology** (Vir. J. Nan. Sci. & Techn., 6 (7) (2002) (Electronic Journal), http://www.vjnano.org/); **Selected Paper** by the expert Editors from American Institute of Physics (AIP) and American Physical Society (APS) (source J. Appl. Phys. 92 (2002) 2125);		3	3	
34	**C. Caizer**, *Thermal dependence of the saturation magnetisation of $Mn_{0.6}Fe_{0.4}Fe_2O_4$ nanoparticles in a ferrofluid*, **Solid State Communications** (Solid Satate Commun., 124 (2002) 53 – 57).	0,8	1	1	0,8
35	**C. Caizer**, M. Ştefănescu, C. Muntean, I. Hrianca, *Studies and magnetic properties of Ni-Zn ferrite synthesis from the glyoxylates complex combination*, **Journal of Optoelectronics and Advanced Materials** (J. Optoelectron. Adv. M., 3 (2001) 919 – 924).	0,08	4	4	0,02
36	I. Hrianca, **C. Caizer**, *Researches regarding load adaptation of a radiofrequency generator working in pulses*, **Romanian Journal of Physics** (Rom. Journ. Phys., 46 (2001) 139 – 149).	0,1	2	2	0,05
37	I. Hrianca, **C. Caizer**, C. Savii, M. Popovici, *Magnetic and structural properties of γ-Fe_2O_3 nanoparticles dispersed in a silica matrix*, **Journal of Optoelectronics and Advanced Materials** (J. Optoelectron. Adv. M., 2 (2000) 634 – 638).	0,03	4	4	0,0075
Punctaj total indicator 2.1 (I)					**I = 13,864**

2.2 –Articole ştiinţifice originale în extenso ca prim autor sau autor corespondent, conform menţiunilor de pe articol. Nu se iau în considerare articolele la care autorii sunt indicaţi în ordinea alfabetică a numelui şi candidatul este prim-autor exclusiv datorită numelui acestuia şi ordonării alfabetice. În cazul publicațiilor HEPP(High Energy Particle Physics) cu număr mare de autori, dacă articolul are la bază o notă internă a cărei aprobare în vederea trimiterii la publicare a fost susținută de către autor, atunci autorul este considerat prim autor.

Nr.	**Referinţa bibliografică** (conform ISI Web of Science)	AIS_i
1	**Costica Caizer**, Isabela Simona Caizer-Gaitan, Claudia Geanina Watz, Cristina Adriana Dehelean, Tiberiu Bratu and Codruta Soica, *High Efficacy on the Death of Breast Cancer Cells Using SPMHT with Magnetite Cyclodextrins Nanobioconjugates*, PHARMACEUTICS, 15(4) (2023) 1145 (pp. 1-20). **Impact Factor: 6,525, zona ROSIE (Q1)**; Five Years Impact Factor: 7,227;	0,879 (2021)
2	**Costica Caizer**, Isabela Simona Caizer, Roxana Racoviceanu, Claudia Geanina Watz, Marius Mioc, Cristina Adriana Dehelean, Tiberiu Bratu, Codruta Soica, *The Fe_3O_4-PAA–(HP-γ-CDs) Biocompatible Ferrimagnetic Nanoparticles for Increasing Efficacy in Superparamagnetic Hyperthermia*, NANOMATERIALS, 12(15) (2022) 2577 (pp.1-28) **Impact Factor: 5,719, zona ROSIE (Q1)**; Five Years Impact Factor: 5,81;	0,738 (2021)
3	Isabela Simona Caizer, **Costica Caizer**, *Superparamagnetic Hyperthermia Study with Cobalt Ferrite Nanoparticles Covered with γ-Cyclodextrins by Computer Simulation for Application in Alternative Cancer Therapy*, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 23(8) (2022) 4350 (pp. 1-25). **Impact Factor: 6,208, zona ROSIE (Q1)**; Five Years Impact Factor: 6,628;	1,064 (2021)
4	**Costica Caizer**, *Computational Study Regarding CoxFe3-xO4 Ferrite Nanoparticles with Tunable Magnetic Properties in Superparamagnetic Hyperthermia for Effective Alternative Cancer Therapy*, NANOMATERIALS, 11(12) (2021) 3294 (pp. 1-20). **Impact Factor: 5,719, zona ROSIE (Q1)**; Five Years Impact Factor: 5,81;	0,738
5	**Costica Caizer**, Isabela Simona Caizer, *Study on Maximum Specific Loss Power in Fe3O4 Nanoparticles Decorated with Biocompatible Gamma-Cyclodextrins for Cancer Therapy with Superparamagnetic Hyperthermia*, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 22(18) (2021) 10071 (pp. 1-22). **Impact Factor: 6,208, zona ROSIE (Q1)**; Five Years Impact Factor: 6,628;	1,064
6	**Costica Caizer**, *Specific Loss Power and Heating Temperature in $CoFe_2O_4$ Nanoparticles as Possible Candidate for Alternative Cancer Therapy by Superparamagnetic Hyperthermia*, **Applied Sciences**, 11(12) (2021) 5505 (pp. 1-22); Impact Factor: 2.838, zona GALBENA (Q2)	0,409

	Five Years Impact Factor: 2,921;	
7	**Costica Caizer**, *Optimization study on specific loss power in superparamagnetic hyperthermia with magnetite nanoparticles for high efficiency in alternative cancer therapy*, NANOMATERIALS, 11(1) (2021) 40 (pp. 1-20); **Impact Factor: 5,719, zona ROSIE (Q1)**; Five Years Impact Factor: 5,81;	0,738
8	**C. Caizer**, *Computational study on superparamagnetic hyperthermia with biocompatible SPIONs to destroy the cancer cells*, **Journal of Physics** (IOP) (J. Phys.: conf. ser. 521 (2014) 012015).	
9	**C. Caizer**, *Magnetic properties of the novel nanocomposite* $(Zn_{0.15}Ni_{0.85}Fe_2O_4)_{0.15}/(SiO_2)_{0.85}$ *at room temperature*, **Journal of Magnetism and Magnetic Materials** (J. Magn. Magn. Mater., 320 (2008) 1056 – 1062).	0,46
10	**C. Caizer**, V. Tura, *Magnetic relaxation/stability of Co ferrite nanoparticles embedded in amorphous silica particles*, **Journal of Magnetism and Magnetic Materials** (J. Magn. Magn. Mater., 301 (2006) 513 – 520).	0,5
11	M. Ştefănescu, **C. Caizer**, M. Stoia, O. Ştefănescu, *Ultrafine, perfectly spherical Ni-Zn ferrite nanoparticles, with ultranarrow distribution, isolated in a silica matrix, prepared by a novel synthesis method in the liquid phase*, **Acta Materialia** (Acta Mater., 54 (2006) 1249 – 1256).	1,9
12	**C. Caizer**, *Deviation from Bloch law in the case of surfacted nanoparticles*, **Applied Physics A** (Appl. Phys. A, 80 (2005) 1745 – 1751).	0,8
13	**C. Caizer**, *The effect of external magnetic field on the thermal relaxation of magnetization*, **Journal of Physics-Condensed Matter** (J. Phys.: Condens. Matter 17 (2005) 2019 – 2034).	1,1
14	**C. Caizer**, M. Popovici, C. Savii, *Spherical* $(Zn_\delta Ni_{1-\delta}Fe_2O_4)_\gamma$ *nanoparticles in an amorphous* $(SiO_2)_{1-\gamma}$ *matrix, prepared with the sol-gel method*, **Acta Materialia** (Acta. Mater., 51 (2003) 3607 – 3616).	2,0
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Punctaj total indicator 2.2 (P)		**P = 19,670**

Punctaj total realizat pentru activitatea de cercetare:

I = 13,864

P = 19,670

I/2 + P/2 = 13,864/2 + 19,670/2 = 16,677

Criterii minimale pentru activitatea de cercetare:

Abilitare: I ≥ 4, P ≥ 4;

3. Recunoașterea impactului activității

3.1. 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. Nu se iau în considerare citările provenind din articole care au ca autor sau coautor candidatul

Publicația care citează (c_i)	**Referința bibliografică a publicației care citează** (conform ISI Web of Science)	ISI_k	n_i	n^{ef}_i	c_i/n^{ef}_i
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2	Title: Amorphous iron(III) Oxide - A review Author(s): Machala, Libor; Zboril, Radek; Gedanken, Aharon Source: JOURNAL OF PHYSICAL CHEMISTRY B Volume: 111 Issue: 16 Pages: 4003-4018 Published: APR 26 2007				
3	Title: Structural, magnetic and electrical properties of the sol-gel prepared Li0.5Fe2.5O4 fine particles Author(s): George, M; Nair, SS; John, AM; et al. Source: JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 39 Issue: 5 Pages: 900-910 Published: MAR 7 2006				
4	Sol-gel derived iron oxide-silica nanocomposites, starting from iron chloride and iron nitrate By: Popovici, M; Savii, C; Enache, C; et al. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 7 Issue: 5 Pages: 2753-2762 Published: OCT 2005				
5	Title: Cluster glass structure in nanohybrids of nonstoichiometric zinc ferrite in silica matrix Author(s): Zhou, ZH; Wang, J; Xue, JM; et al. Source: APPLIED PHYSICS LETTERS Volume: 79 Pages: 3167-3169 DOI: 10.1063/1.1415375 Published: NOV 5 2001				
Punctaj total indicator 3.1 (C):					**C = 414,470**

3.2. Indicele Hirsch (h);

h = 16 (conform Clarivate Analytics – Web of Science);

Punctaj total realizat pentru Activitatea 3:

C/20 + h/5 = 414,47/20 + 16/5 = 20,7235 + 3,2 = 23,924

Criterii minimale pentru Activitatea 3:

Profesor universitar: C ≥ 40, h ≥ 10;

- **Punctaj TOTAL (CNATDCU - Fizică - UVT) realizat de subsemnatul:**

T = A + (I/2+P/2) + (C/20+h/5) = 20,360 + 16,677 + 23,924 = 60,961 ~ 61

Criteriul minimal pentru punctajul total:

Profesor universitar: T ≥ 12

Conf. Dr. Dr. Habil. Caizer Costică

Timișoara, 15.05.2023