

Ficai D.



**Curriculum vitae
Europass**

Informații personale

Nume / Prenume Denisa FICAI
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Naționalitate(-tăți) Romanian

Data nașterii 10.11.1976

Sex female

**Locul de muncă ocupat /
Domeniul ocupațional Conf. Dr. Ing.**

Experiența profesională

Perioada	Oct. 2011 – present
Funcția sau postul ocupat	Conferentiar
Activități și responsabilități principale	Activitati de cercetare in domeniul Chimiei Anorganica, Chimia Metalelor Materialelor, si Polimeri Anorganici Activitati de cercetare
Numele și adresa angajatorului	Universitatea POLITEHNICA Bucuresti, Facultatea de Chimie Aplicată Și Știința Materialelor
Tipul activității sau sectorul de activitate	Educatie
Perioada	2008 – Oct. 2011
Funcția sau postul ocupat	Sef lucrari
Activități și responsabilități principale	Activitati de cercetare
Numele și adresa angajatorului	Universitatea POLITEHNICA Bucuresti, Facultatea de Chimie Aplicată Și Știința Materialelor
Tipul activității sau sectorul de activitate	Educatie
Perioada	2008 – Oct. 2011

Ficaș

Funcția sau postul ocupat	Asistent cercetare
Activități și responsabilități principale	Activitati de cercetare
Numele și adresa angajatorului	Universitatea POLITEHNICA Bucuresti, Facultatea de Chimie Aplicată Și Știința Materialelor
Tipul activității sau sectorul de activitate	Educatie

Educație și formare

Perioada	2010 – 2013
Funcția sau postul ocupat	Postdoctorat
Activități și responsabilități principale	Nanomateriale- Materiale multifunctionale
Numele și adresa angajatorului	Politehnica University of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Inorganic Chemistry
Tipul activității sau sectorul de activitate	Postdoctoral studies

Perioada	2005-2010
Funcția sau postul ocupat	PhD. Eng.
Activități și responsabilități principale	Chemical Engineering
Numele și adresa angajatorului	Universitatea POLITEHNICA Bucuresti, Facultatea de Chimie Aplicată Și Știința Materialelor
Tipul activității sau sectorul de activitate	Studii postuniversitare / Studii doctorale

Perioada	2005-2007
Calificarea / diploma obținută	Diploma de master
Disciplinele principale studiate / competențe profesionale dobândite	Sinteze Anorganice Speciale.
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea POLITEHNICA Bucuresti, Facultatea de Chimie Aplicată Și Știința Materialelor
Nivelul în clasificarea națională sau internațională	Studii universitare / Studii postdoctorale

Perioada	2000-2005
Funcția sau postul ocupat	Inginer Chimist
Activități și responsabilități principale	Chimie Organica
Numele și adresa angajatorului	Universitatea POLITEHNICA Bucuresti, Facultatea de Chimie Aplicată Și Știința Materialelor
Tipul activității sau sectorul de activitate	Studii universitare

Aptitudini și competențe personale

Ficaș

Limba(i) maternă(e) **Romana**

Limba(i) străină(e)
cunoscută(e)

Autoevaluare

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Participare la conversație		Ascultare		Citire	
B2	Utilizator independent	B2	B2	Utilizator independent	B2	B2	Utilizator independent	B1	Utilizator independent
B1	Utilizator independent	B1	B1	Utilizator independent	B1	B1	Utilizator independent	A1	Utilizator independent

(*) [Common European Framework of Reference for Languages](#)

Competențe și abilități sociale

Spirit de echipă, sociabil, bune aptitudini de comunicare

Competențe și aptitudini organizatorice

Pe parcursul anilor de facultate am fost implicat în activitățile studențești iar în calitate de șef de cămin am dobândit bune competențe și aptitudini organizatorice.

Competențe și aptitudini tehnice

Competențele tehnice au fost dobândite și îmbunătățite ca urmare a trainingurilor la care am participat: cromatografie, spectroscopie de absorbție în infraroșu, spectroscopie de masă (inclusiv ICP-MS)

Competențe și aptitudini de utilizare a calculatorului

Bună stăpânire a sistemului de operare WINDOWS XP, a aplicațiilor Office, Macromedia Firefox și Mathcad.

Informații suplimentare

Domenii de cercetare

Nanomaterials and Nanotechnologies, Inorganic Chemistry; Drug Delivery System; Materials for Environmental Applications, etc.

Publicatii

- 61 published works (over 48 ISI ranked papers); cumulative impact factor >70; Hirsh index 9 (Scopus); No. of citations > 300;
- 7 Books and Chapters of books;
- 8 Patent Applications

Reviewer

- JOURNAL OF NANOPARTICLE RESEARCH
- ROMANIAN JOURNAL OF MATERIALS
- JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY.
- POLYMER CHEMISTRY;
- RSC ANALYST,
- RSC ADVANCES;

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- Premii
- 2017: 9th European Exhibition of Creativity and Innovation-EuroInvent 2017, 25-27.05.2017; Iași, Romania**
"Gold medal" (for the invention "Bone grafts based on collagen, calcium phosphates and zinc and process for their manufacturing" authors Anton FICAI, Ecaterina ANDRONESCU, Maria SONMEZ, Denisa FICAI, Ioan Avram NEDELICU; Madalina Georgiana ALBU);
"Special prize awarded by Institutul de Chimie al Academiei de Științe din Moldova (for the invention "Bone grafts based on collagen, calcium phosphates and zinc and process for their manufacturing" authors Anton FICAI, Ecaterina ANDRONESCU, Maria SONMEZ, Denisa FICAI, Ioan Avram NEDELICU; Madalina Georgiana ALBU);
"Special prize awarded by Universitatea Lucian Blaga din Sibiu (for the invention "Bone grafts based on collagen, calcium phosphates and zinc and process for their manufacturing" authors Anton FICAI, Ecaterina ANDRONESCU, Maria SONMEZ, Denisa FICAI, Ioan Avram NEDELICU; Madalina Georgiana ALBU);
"Silver medal" (for the invention "Compositions and process for obtaining innovative enzymatic formulations for root canal lavage" authors Anton FICAI, Denisa FICAI, Ovidiu OPREA, Ștefan MANEA, Anna-Maria PANGICĂ, Petru BODOGA, Camelia AGAPESCU)
"Special prize awarded by Universitatea de Stat din Tiraspol (for the invention "Compositions and process for obtaining innovative enzymatic formulations for root canal lavage" authors Anton FICAI, Denisa FICAI, Ovidiu OPREA, Ștefan MANEA, Anna-Maria PANGICĂ, Petru BODOGA, Camelia AGAPESCU)
- 2016: BRUSSELS INNOVA - The World Exhibition on Inventions, Research and New Technologies, 17 – 19.11.2016; Bruxelles, Belgium**
"Gold medal" (for the invention "Magnetite/thioacids@Ag or Au multifunctional systems used for diagnosis and targeted delivery in cancer")
"Special Prize" awarded by Taiwan during the Award Ceremony
- 2016: 2016: 8th European Exhibition of Creativity and Innovation-EuroInvent 2016, 19-21.05.2016; Iași, Romania**
"Gold medal" (for the invention "Magnetite/thioacids@Ag or Au multifunctional systems used for diagnosis and targeted delivery in cancer")
"Gold medal" (for the invention "Synthesis procedure of some multifunctional composite materials with potential application in bone cancer treatment")
"Silver medal" (for the invention "Osteoconductive and osteoinductive bone grafts and process for their manufacturing")
"Silver medal" (for the invention "Functionalized magnetic systems for environmental applications, A00164/2011"); all these were awarded by the 8th European Exhibition of Creativity and Innovation, 19-21.05.2016
"Special prize" (for the invention "Synthesis procedure of some multifunctional composite materials with potential application in bone cancer treatment") awarded by iSentinel – Mircea MANOLESCU
- 2016: "Gold medal" awarded by 44th International Exhibition of Inventions GENEVA (for the invention "Osteoconductive and osteoinductive bone grafts and process for their manufacturing")
"Best Invention Award – Special Prize" awarded by Hong-Kong Science and Technology Parks Corporation
"Honorable mention – Special Prize" awarded by China Delegation of Inventions and Innovation
"Special prize" awarded by Turkish Patent Institute
- 2015: "Gold medal" awarded by European Exhibition of Creativity and Innovation - EUROINVENT (for patent application "Layered Composite Based on Polypropylene Reinforced with Treated Glass Fibre Fabric")
- 2012: Prize: "Best Published Paper–2009" awarded by Syscomm – "Materiale Plastice"
- 2012: Prize: The special prize of Romanian Chemistry Society at 4th International Conference "Students for students"
2nd Prize – Annual scientific communications of students; Section Organic Chemistry;
The special mention of Romanian Chemistry Society at 4th International Conference "Students for students".2007

Fișă

Specializari:

1. How to write scientific papers CNCISIS-UPB, 25-26 June 2009
2. Graduation certificate of the courses for operation and use of GC, HPLC, GC-MS, LC-MS, UV-Vis, FTIR spectroscope and microscope, ICP-OES, ICP-MS, AAS

Proiecte de cercetare:

- 22 research project with national and international financing (3 of them being project manager and 1 of them UPB responsible).
1. **PN-III-P2-2.1-PTE-2016-0146**; Novel nanostructured polymeric composite designed for pallet lining, connecting plate and other components for the railway industry; Role: Researcher/ Responsible of UPB; Period of implementation: 2016-2018;
 2. PN-III-P2-2.1-PTE-2016-0156; Harnessing recycled thermoplastic polymers by reinforcement with functionalized natural fibers to obtain new added-value products; Rol: Researcher; Period of implementation: 2016-2018;
 3. **PN-III-P2-2.1-PTE-2016-0177**; Composite hydrogels based on inorganic nanoparticles and collagen with prolonged antimicrobial activity designed for the infection prevention of wound; Role: Researcher/ Responsible of UPB; Period of implementation: 2016-2018;
 4. Era Net Rus Plus project, „Titanium Oxynitride Coatings for the Improvement of Biocompatibility and Long-Term Functionality of Cardiovascular Stents: Development of Novel Deposition Technology- TIOXTECH-BIO”; Role: Researcher/ Responsible of UPB; Period of implementation: 2015-2016;
 5. MANUNET ERA-NET Project; "*Multiphase elasto-plastic architectures dynamically vulcanized and reinforced with nanoparticles for specific products used in food and pharmaceutical industries - ARHNANOTPV*" Role: Researcher/ Responsible of UPB; Period of implementation: 2015-2016;
 6. PNCDI II – Partnership: Ligaments reconstruction by using advanced materials based on synthetic and natural polymers / Reconstrucția ligamentelor utilizand materiale structurate avansate pe baza de polimeri sintetici si naturali; Ctr. Nr. PN-II-PT-PCCA-2013-4-0891; Role: Researcher; Period of implementation: 2014-2016;
 7. PNCDI II – Partnership: Inovative dental products with multiple applications/ Produse inovative de uz dentar cu aplicatii multiple – LavEndo; Ctr. Nr. PN-II-PT-PCCA-2013-4-0891; Role Researcher; Period of implementation: 2014-2016;
 8. POSSCE-A2-O2.2.1.-2013-1 - *Crearea Centrului Național de Cercetări Științifice pentru Siguranța Alimentară; Nr 1970, Cod SMIS – CSNR 48652*; Role: Researcher; Period of implementation: 2014-2016;
 9. ADER 8.1.4 - Integrated tracking and control systems of animal and non-animal food to identify potential carcinogenic risk factors in relation to environmental, farm, processing, transport, consumption / Sisteme integrate de trasabilitate și control ale unor alimente de origine animală și nonanimală pentru identificarea unor factori de risc potențial cancerigeni în relația mediu, fermă, procesare, transport, consum; Ctr. Nr. 67/ADER 8.1.4; Role Researcher; Period of implementation: 2013-2014;
 10. PNCDI II – Partnership: Novel nanostructured prosthetic tubular devices with antibacterial and antibiofilm properties induced by physico-chemical and morphological changes – AntiBioTube; Ctr. Nr.43_094; Role: Researcher; Period of implementation: 2012-2015;
 11. **PNCDI II – Partnership: Hybrid composite materials with thermoplastic matrices doped with fibres and disperse nano fillings for materials with special purposes – HybridMat; Ctr. Nr.73-168; Role: Project manager 2012-2015;**
 12. PNCDI II – CAPACITATI (Modulul II) Perspective Studies „NanoProspect”; Role: Researcher; Period of implementation: 2010-2011;
 13. PNCDI II– Partnership: The achievement of new biomaterials with collagenic, supramolecular doped structures with piezoelectical, liquid crystals, electrical and magnetical properties used for biotechnology; Ctr. Nr.71_147; Role: Researcher; Period of implementation: 2007 – 2010;
 14. PNCDI II – Partnership: Multifunctional nanobiocomposites used as regenerative and drug delivery support–SIMAC; Ctr. Nr.72_198; Role: Researcher; Period of implementation: 2008– 2011;
 15. **PNCDI II – Project PN II_TD – New inorganic materials based on phosphazene and their applications, Role: Project manager; Period of implementation: 2007 – 2008;**
 16. **PNCDI II – Project PN II_MC – New inorganic materials based on phosphazene and their applications, Role: Project manager; Period of implementation: October 2007– December 2007;**
 17. **PNCDI II – Project PN II_TA – New inorganic materials based on phosphazene and their applications** Role: Researcher; Period of implementation: 207-2008
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19. **PN II_TD – Phosphazene based new inorganic materials and their applications**
Role: Researcher; Period of implementation: 2007-2008
 20. **PN II_AT – Nanostructured inorganic matrices based on immobilized crown ethers for selective extraction of ion pairs**, Role: Researcher; Period of implementation: 2007-2009.
 21. **PNCDI II – CNMP / Phenothiazinic hybrids - heterocycles containing nitrogen and sulfur atoms with potential pharmacological effects**, Role: Researcher; Period of implementation: 2006-2008
 22. **PNCDI II - Parteneriship/CO₂ trapping from fossil fuel combustion**, Role: Researcher; Period of implementation: 2006- 2008
 23. **P-CD CEEEX / Combinatorial library for the synthesis of neutral receptors of inorganic anions; from project to potential applications**, Role: Researcher; Period of implementation: 2006- 2008
- PNCDI I-CERES type PED/Hybrid membranar materials with polyphosphazenic backbone; Role: Researcher; Period of implementation: 2002- 2004.

Anexe: Anexa 1

21.08.2017

Denisa FICAI

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