



Curriculum vitae Europass

Informații personale	
Nume / Prenume	Denisa FICAI
E-mail(uri)	!
Naționalitate(-tăți)	romana
Data nașterii	'
Locul nașterii (loc, județ)	
Stare civilă	
Experiența profesională <i>(în ordine invers cronologică)</i>	
Perioada	2014- prezent
Funcția sau postul ocupat	Conferențiar
Activități și responsabilități principale	Activități didactice și cercetare;
Numele și adresa angajatorului	Universitatea Națională de Știință și Tehnologie POLITEHNICA București, Facultatea de Inginerie Chimică și Biotehnologii , Departamentul Chimie anorganică, Chimie-Fizică și Electrochimie
Tipul activității sau sectorul de activitate	Activitate didactică și de cercetare în domeniile chimie și inginerie chimică (nanomateriale, sinteză dirijată, caracterizare utilizând metode moderne avansate eliberare controlată); https://crescdi.pub.ro/#!/profile/1098
Perioada	2008-2014
Funcția sau postul ocupat	Șef de lucrări
Activități și responsabilități principale	Activități didactice și cercetare
Numele și adresa angajatorului	Universitatea POLITEHNICA din București, Facultatea de Chimie Aplicata si Știința Materialelor, Catedra Chimie anorganică
Tipul activității sau sectorul de activitate	Activitate didactică în domeniul chimiei anorganice și de cercetare în domeniul inginerie chimică (nanomateriale, sinteză dirijată, caracterizare utilizând metode moderne avansate eliberare controlată, polimeri organo-anorganici, sinteza, caracterizare, aplicații)
Perioada	2008-20011
Funcția sau postul ocupat	Asistent Universitar
Activități și responsabilități principale	Activități didactice și cercetare
Numele și adresa angajatorului	Universitatea POLITEHNICA din București, Facultatea de Chimie Aplicata si Știința Materialelor, Catedra Chimie anorganică

Tipul activității sau sectorul de activitate	Activitate didactică – laboratoare de Chimie anorganică și Chimia Metalelor tranziționale, activitate de cercetare științifică în domeniul inginerie chimică și polimeri organo-anorganici, sinteza, caracterizare, aplicații.
	Se adaugă linii suplimentare dacă este cazul
Educație și formare	<i>în ordine invers cronologică, se vor trece și cele mai importante studii post-universitare, post-doctorale, Burse studii, Stagii lucru</i>
Perioada	2010-2013
Calificarea / diploma obținută	stagiul postdoctoral –Bionanomateriale -în cadrul programului Nanomat ID 54785
Disciplinele principale studiate / competențe profesionale dobândite	Nanomateriale – sinteză, caracterizare, proprietăți.
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea POLITEHNICA din București
Perioada	2005-2010
Calificarea / diploma obținută	Doctor inginer - domeniul inginerie chimică
Disciplinele principale studiate / competențe profesionale dobândite	Noi materiale organo-anorganice cu schelet polifosfazenic si aplicații ale acestora
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea POLITEHNICA din București
Perioada	2005-2007
Calificarea / diploma obținută	Studii aprofundate/master
Disciplinele principale studiate / competențe profesionale dobândite	Sinteze anorganice speciale
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea POLITEHNICA din București
Perioada	2000-2005
Calificarea / diploma obținută	Diploma in Inginerie Chimica (medie diploma 10)
Disciplinele principale studiate / competențe profesionale dobândite	Inginerie Chimica
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea POLITEHNICA din București
Membru al unor organizații științifice sau profesionale	Se vor preciza: numele organizației științifice, țara, orașul, calitatea de membru și anul din care este membru 1. Societatea de Chimie din România – 2006 2. Societatea Romana de Biomateriale - 2009;
Membru în Comitetul științific de organizare a unei manifestări științifice	Se vor preciza: perioada, tipul manifestării, instituții organizatoare, unde a avut loc [țara, oraș] – eventual dacă a fost și conducătorul manifestării [principalul organizator]
Membru in Colegiul de redacție / referent al unei reviste	• Membru Board-ul editorial al Advanced Nano-Bio-Materials and Devices – SciEdTech • Editor Sef Advanced Materials and Technologies for Environmental Sciences – AdvMatTechEnv Recenzor la: • Journal of Nanoparticle Research (IF = 2.5) • Romanian Journal of Materials (IF = 0.7) • Journal of Nanoscience and Nanotechnology (IF = 1.134)

	• Polymer chemistry (IF = 4,6); • RSC Analyst, • RSC Advances
PREMII INTERNATIONALE	1. Best paper award 2023 – acordat de juriul conferintei ASET in cadrul conferintei 8TH International Conference on Nanotechnology: Fundamentals and Applications - pentru lucrarea Magnetic Smart Systems for Theranostic, Denisa Fikai, Ludmila Motelica, Angela Spoiala, Cornelia Ioana Ilie, Cristina Chircov, Roxana Doina Trusca, Adrian Vasile Surdu, Bogdan Stefan Vasile, Ovidiu Cristian Oprea, Anton Fikai, Ecaterina Andronescu 2. Best paper award 2023 – Pharmaceuticals MDPI pentru lucrarea - Ludmila Motelica, Denisa Fikai, Ovidiu Oprea, Anton Fikai, Roxana Trușcă, Ecaterina Andronescu, Alina Maria Holban - <i>"Biodegradable alginate films with ZnO nanoparticles and citronella essential oil - a novel antimicrobial structure"</i> – Pharmaceuticals 13(7), 1020, 2021, doi: 0.3390/pharmaceutics13071020 ISSN 1999-4923 3. 7th International Invention Innovation Competition in Canada – ICan 2022; August 27, Toronto, Canada, Denisa FICAI, Georgiana DOLETE, Alexa-Maria CROITORU, Marcela POPA, Laura-Florentina BOANȚĂ, Dan Eduard MIHAIESCU, Anton FICAI, Ecaterina ANDRONESCU, Carmen CHIFIRIUC; Wastewater treatment technology at the level of treatment plants contaminated with antibiotics, pesticides or other biologically active substances; A/00707/24.11.2021; "Gold medal" awarded by the International Jury of ICan 2022 si Canadian Special Award: Innovation Initiative Co-operative Inc. "The Inventors Circle" 4. 15th International Invention and Innovation Show, Intarg 2021 11-12 March, 2022 Denisa FICAI, Georgiana DOLETE, Alexa-Maria CROITORU, Marcela POPA, Laura-Florentina BOANȚĂ, Dan Eduard MIHAIESCU, Anton FICAI, Ecaterina ANDRONESCU, Carmen CHIFIRIUC; Tehnologie de tratare a apelor uzate de la nivelul stațiilor de epurare cu potential ridicat de antibiotic, pesticide sau alte substanțe biologice active; A/00707/24.11.2021; "Gold medal" awarded by the Jury of INTARG 2022 si "Special Award" awarded by the Industrial Property Office of the Czech Republic 5. The 15th International Trade Fair of The Invention and Innovation INTARG® 2022 – Katowice, Poland, 11-12 May 2022: Silver Medal – for the invention "Antimicrobial composition based on cellulose and ZnO loaded with citronellol for restoring paper from documents affected by the microorganisms" Ovidiu Cristian Oprea, Anton FICAI, Denisa FICAI, Ludmila MOTELICA, Ecaterina ANDRONESCU, Roxana Doina TRUSCA; 6. 11. 2022: The 7th International Invention Innovation Competition in Canada, iCAN 2022, 27th August, Toronto Canada: Gold Medal & Special Award from TISIAS – for the invention "Antimicrobial composition based on cellulose and ZnO loaded with citronellol for restoring paper from documents affected by the microorganisms" Ovidiu Cristian Oprea, Anton FICAI, Denisa FICAI, Ludmila MOTELICA, Ecaterina ANDRONESCU, Roxana Doina TRUSCA 7. Otlet Club 13 Egyesület által rendezett IDEA -2021 Hodmezovasarhely, Hungary, September 17-18th 2021: Gold medal – for the invention "Composition for restoring paper from documents affected by microorganisms" – Oprea Ovidiu Cristian, FICAI Anton, FICAI Denisa, MOTELICA Ludmila, TRUȘCĂ Roxana Doina, ANDRONESCU Ecaterina; 8. 2021: "EIS Invention 2021" Chișinău, ediția a XIX -a, perioada 17-20 noiembrie 2021: Silver medal – for the invention "Composition for restoring paper from documents affected by microorganisms" – Oprea Ovidiu Cristian, FICAI Anton, FICAI Denisa, MOTELICA Ludmila, TRUȘCĂ Roxana Doina, ANDRONESCU Ecaterina; Gold Medal and Excellence award from State University of Medicine and Pharmacy „Nicolae Testemițanu”, Moldova - for the invention "Compositions and method for treating materials for the development of (medical) protective devices with antiviral and antimicrobial role" Anton FICAI, Denisa FICAI, Ludmila MOTELICA, Ovidiu Cristian Oprea, Ecaterina ANDRONESCU 9. The 14th International Trade Fair of The Invention and Innovation INTARG® 2021 – Katowice, Poland, 15-16 June 2021: Platinum Medal & Award for the best foreign innovation – for the invention "Compositions and method for treating materials for the development of (medical)

	protective devices with antiviral and antimicrobial role" Anton FICAI, Denisa FICAI, Ludmila MOTELICA, Ovidiu Cristian Oprea, Ecaterina ANDRONESCU Gold medal & Special Prize: Award of International Federation of Inventors Associations IFIA – for the invention "Composition for restoring paper from documents affected by microorganisms" – Oprea Ovidiu Cristian, FICAI Anton, FICAI Denisa, MOTELICA Ludmila, TRUȘCĂ Roxana Doina, ANDRONESCU Ecaterina 10.2020: The 5th International Invention Innovation Competition in Canada, iCAN 2020, August, Toronto Canada: Gold Medal & Canadian Special Award (Toronto International Society of Innovation & Advanced Skills – TISIAS) – for the invention "Compositions and method for treating materials for the development of (medical) protective devices with antiviral and antimicrobial role" Anton FICAI, Denisa FICAI, Ludmila MOTELICA, Ovidiu Cristian Oprea, Ecaterina ANDRONESCU 11.2019: Bangkok International Intellectual Property, Invention, Innovation and Technology Exposition – Thailand Inventors' Day 2019, 2-6 februarie 2019: Gold medal & Special Prize (Advanced Tech Smart Certificate of Award) for the invention "Multifunctional systems based on magnetite, thioacids and Ag/Au nanoparticles used for the targeted diagnosis and treatment of cancer" Anton FICAI, Denisa FICAI, Ecaterina ANDRONESCU, Maria SONMEZ, Ovidiu OPREA, Bogdan Stefan VASILE 12. 2019: The 4th International Invention Innovation Competition in Canada, iCAN 2019 – 2019, Toronto, 24th August 2019: Gold medal & Gold medal of Moroccan delegation of inventor and the EMSI Group for the invention "Multifunctional systems based on magnetite, thioacids and Ag/Au nanoparticles used for the targeted diagnosis and treatment of cancer" Denisa FICAI, Ecaterina ANDRONESCU, Maria SONMEZ, Anton FICAI, Ovidiu OPREA, Bogdan Stefan VASILE 13. Bangkok International Intellectual Property, Invention, Innovation and Technology Exposition – Thailand Inventors' Day 2019" 2-6 February 2019, "Synthesis procedure of some multifunctional composite materials with potential applications in bone cancer treatment" authors: A FICAI, E ANDRONESCU, C.D. GHITULICA, D. FICAI, Georgeta VOICU, G.M. ALBU, "Gold medal" acordat de International Jury of IPITEX "Magnetite/thioacids@Ag or Au multifunctional systems used for diagnosis and targeted delivery in cancer", Denisa FICAI, Ecaterina ANDRONESCU, Maria SONMEZ, Anton FICAI, Ovidiu OPREA, Bogdan Stefan VASILE A/00238/2013) -"Gold medal" acordat de International Jury of IPITEX si "Special Award" acordat de Advanced Tech Smart 14.2018: International Warsaw Invention Show IWIS 2018, 15-18.10.2018; Warsaw, Poland: Silver medal for the invention "Multifunctional systems based on magnetite, thioacids and Ag/Au nanoparticles used for the targeted diagnosis and treatment of cancer" Anton FICAI, Denisa FICAI, Ecaterina ANDRONESCU, Maria SONMEZ, Ovidiu OPREA, Bogdan Stefan VASILE 15. Best paper awarded by WASET during 19th International Conference on Environmental, Biomedical and Biotechnology – ICEBB 2017: held at Venice, Italy for the paper "Collagen/Hydroxyapatite Compositions doped with Transitional Metals for bone tissue Engineering Applications" authors; Denisa FICAI, Anton FICAI, Dragos GUDOVAN, Iulia GUDOVAN, Ioana ARDELEAN, Roxana TRUSCA, Ecaterina ANDRONESCU, Valentina MITRAN, Anisoara CIMPEAN. 16.2017 Best paper awarded by ASET during 8TH International Conference on Nanotechnology: Fundamentals and Applications - ICNFA'17 held at Rome, Italy for the paper Design of TiO_xN_y for coating technology, <u>Anton Ficai</u>, Denisa Ficai, Bogdan Stefan Vasile, Roxana Doina Trusca, Dragos Gudovan, Ovidiu Oprea, Motelica Ludmila, Ecaterina Andronescu. 17. Best paper awarded by WASET during 19th International Conference on Nanotechnology and Nanomedicine the - ICNN 2017: held at Prague, Czech Republic for the paper: Nanostructured Wound Dressings for Prevention and Treatment of Skin Infections, Anton FICAI, Roxana Doina TRUSCA, Alina Holban, Denisa FICAI, Ecaterina ANDRONESCU. 18.2016: 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
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	in cancer” Denisa FICAI , Ecaterina ANDRONESCU, Maria SONMEZ, Anton FICAI, Ovidiu OPREA, Bogdan Stefan VASILE); “Special Prize” awarded by Taiwan during the Award Ceremony
PREMII NATIONALE	Se vor preciza: titlul premiului, instituția care vi l-a acordat și anul premierii 2020: 12th European Exhibition of Creativity and Innovation-EuroInvent 2020, 23 mai, Iasi Romania: Gold Medal & Special prize awarded by Romanian Association for alternative Technologies – ARTA Sibiu & Special prize of Petroleum-Gas University of Ploiești & Special award of University POLITEHNICA of Timișoara – for the invention “Compositions and process for treating materials devoted for the manufacturing protective devices with antiviral and antimicrobial activity” Anton FICAI, Denisa FICAI, Ludmila MOTELICA, Ovidiu Cristian Oprea, Ecaterina ANDRONESCU; 2020: Salonul Internațional de Invenții și Inovații “TRAIAN VUIA” Timișoara, ediția a VI -a, 13-15 octombrie 2020: Gold Medal & Special award - University Politehnica of Timișoara – for the invention “Compositions and method for treating materials for the development of (medical) protective devices with antiviral and antimicrobial role” Anton FICAI, Denisa FICAI, Ludmila MOTELICA, Ovidiu Cristian Oprea, Ecaterina ANDRONESCU Gold Medal & Special award - University Politehnica of Timișoara – for the invention “Composition and process for treating paper, parchment or other writing media, for removing pathogens such as fungi, mold or bacteria” – Oprea Ovidiu Cristian, FICAI Anton, FICAI Denisa, MOTELICA Ludmila, ANDRONESCU Ecaterina, TRUȘCĂ Roxana Doina 2019: Salonul Internațional al Cercetării Științifice, Inovării și Inventicii “PRO INVENT” 20-22 martie 2019 Cluj-Napoca, România (editia a XVII-a): Diplomă de excelență și Medalia de aur cu mențiune specială & Diplomă de excelență a Universității de Științe Agronomice și Medicină Veterinară din București & Diplomă de excelență cu mențiune specială– a Universității de Stat de Medicină și Farmacie “Nicolae Testemițanu” din Republica Moldova – pentru invenția “Procedeu de obținere de sisteme multifuncționale de tip magnetita-tioacizi-Ag sau Au, utilizate pentru diagnoza și tratamentul dirijat al cancerului” Denisa FICAI, Ecaterina ANDRONESCU, Maria SONMEZ, Anton FICAI, Ovidiu OPREA, Bogdan Stefan VASILE 2019 - European Exhibition of Creativity and Innovation-EuroInvent 2019, 16-18 mai Iasi, Romania, - The Women Inventor Award, acordată de juriul Euroinvent 2019. 2018: Salonul Internațional al Cercetării Științifice, Inovării și Inventicii “PRO INVENT” 21-23 martie 2018 Cluj-Napoca, România: Diplomă de excelență și Medalia de aur cu mențiune specială & Diplomă de excelență a Asociației “Justin Capră” & Diplomă de excelență – a Universității de Stat de Medicină și Farmacie “Nicolae Testemițanu” din Republica Moldova – for the invention “Compoziție inovativă pentru aplicații dentare – Innovative dental products with multiple applications” Anton FICAI, Denisa FICAI, Ovidiu OPREA, Stefan MANEA, Anna-Maria PANGICA, Petru BODOGA, Ludmila Motelica 2018: 10th European Exhibition of Creativity and Innovation-EuroInvent 2018, 17-19 mai, Iasi Romania: Gold Medal – for the invention “Compoziție inovativă pentru aplicații dentare – Innovative composition for dental applications” Anton FICAI, Denisa FICAI, Ovidiu OPREA, Stefan MANEA, Anna-Maria PANGICA, Petru BODOGA, Ludmila Motelica; 2018: A IV-a Ediție a Salonului Internațional de Invenții și Inovații “Traian Vuia” Timișoara, 13-15 iunie 2018 :Medalia de aur - for the invention “Composition and process for obtaining innovative enzymatic formulations for root canal lavage” Anton FICAI, Denisa FICAI, Ovidiu OPREA, Stefan MANEA, Anna-Maria PANGICA, Petru BODOGA, Camelia AGAPESCU - Medalia de aur & Premiu Special – Universitatea de Medicină și Farmacie “Victor Babeș” din Timișoara-UMFT - for the invention “Multifunctional systems based on magnetite, thioacids and Ag/Au nanoparticles used for the targeted diagnosis and treatment of cancer” Denisa FICAI, Ecaterina ANDRONESCU, Maria SONMEZ, Anton FICAI, Ovidiu OPREA, Bogdan Stefan VASILE 2018: The 22th International Exhibition of Inventions - Inventica 2018, 27-29.06.2018, Iasi Romania Excellence Diploma and Gold Medal – from The National Institute for Research&Development in Chemistry and Petrochemistry – ICECHIM – Emerging Nanotechnologies Group & Special Prize from “Lucian Blaga” University of Sibiu for the invention “Compoziție inovativă pentru aplicații dentare

	– Innovative dental products with multiple applications” Anton FICAI, Denisa FICAI, Ovidiu OPREA, Stefan MANEA, Anna-Maria PANGICA, Petru BODOGA, Ludmila Motelica 9. A XXI-a Ediție a Salonului Internațional al Invențiilor, Cercetării, Inovării și Transferului Tehnologic - Inventica 2017, 28-30.06.2017, Iasi Romania: Gold medal & Diplomă de excelență cu mențiune specială– a Universității de Stat de Medicină și Farmacie “Nicolae Testemițanu” din Republica Moldova & Special prize awarded by Romanian Association for alternative Technologies – ARTA Sibiu for the invention “Composition and process for obtaining innovative enzymatic formulations for root canal lavage” Anton FICAI, Denisa FICAI, Ovidiu OPREA, Stefan MANEA, Anna-Maria PANGICA, Petru BODOGA, Camelia AGAPESCU; 10.2016: 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” Denisa FICAI, Ecaterina ANDRONESCU, Maria SONMEZ, Anton FICAI, Ovidiu OPREA, Bogdan Stefan VASILE; etc									
Aptitudini și competențe personale	Bune abilitați de comunicare; perseverență și putere mare de muncă									
Limba(i) maternă(e)	Română									
Limba(i) străină(e) cunoscută(e)										
Autoevaluare	Înțelegere				Vorbire				Sciere	
<i>Nivel european (*)</i>	Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă	
Limba engleză	B1		B1		B1		B1		B1	
Limba franceză										
Limba rusă										
Limba italiană										
	(*) Nivelul Cadrului European Comun de Referință Pentru Limbi Străine									
Competențe și aptitudini organizatorice	Competențe foarte bune de comunicare și relaționare – am condus mai multe echipe în proiecte de cercetare, Director de departament din 2020, Director științific al unui laborator acreditat RENAR									
Competențe și aptitudini de utilizare a calculatorului	Excelente - Suita Microsoft, Origin Lab, ACDLabs, Chem3D, Yenka, software-uri dedicate achiziționării și prelucrării datelor de analiza fizico-chimică (analiză termică, spectroscopie de masă, spectroscopie UV-Vis, FTIR, difracție de raze X, etc.); platforme e-learning și de virtualizare.									
Relațional	Competențe foarte bune de comunicare și relaționare – membru în Consiliul facultății din 2004, membru în Senatul universității din 2012; am condus echipe de cercetare, Director de departament din 2020, Director științific al unui laborator acreditat RENAR; votat de trei ori „profesorul anului” de către studenții FICBi									
Permis(e) de conducere	B									
Informații suplimentare	Peste 80 de medalii, distincții și premii la Saloanele de invenție (din care peste 30 de aur)									
Anexe (v. Anexa 4 de la pagina 9, de mai jos)	LISTA DE LUCRĂRI ȘTIINȚIFICE Vezi Anexa 3FV Membru în echipa de cercetare în peste 40 proiecte Responsabil / Director – 8 proiecte multianuale									

LISTA
Lucrarilor stiintifice in domeniul disciplinelor din postul didactic

A. Teza de doctorat: “Noi materiale hibride organo – anorganice din clasa fosfazenelor si aplicatii ale acestora”, Coordonator stiintific prof.dr. Cornelia GURAN

B. Cărți si capitole de carte

1. Ludmila Motelica, Ovidiu Oprea, **Denisa Fikai**, and Anton Fikai; Introduction to Biomaterials and Tissue Engineering, (Chapter 1, pages 1-30) in Biomaterials and Tissue Engineering; Oguzhan Gunduz, Christophe Egles, Román A. Pérez, Denisa Fikai, Cem Bulent Ustundag (Editors); Springer; ISBN 978-3-031-35831-9; 390pages
2. Angela Spoială, Cornelia-Ioana Ilie, **Denisa Fikai**, and Anton Fikai; Biomaterials, Chapter 4, pages 97-130 in Biomaterials and Tissue Engineering; Oguzhan Gunduz, Christophe Egles, Román A. Pérez, Denisa Fikai, Cem Bulent Ustundag (Editors); Springer; ISBN 978-3-031-35831-9; 390pages
3. Paul Adrian Tărăbuță, Ludmila Motelica, **Denisa Fikai**, Ovidiu Oprea, Anton Fikai, and Ecaterina Andronescu; Drug Delivery Systems for Tissue Engineering, (Chapter 7, pages 205-238) in Biomaterials and Tissue Engineering; Oguzhan Gunduz, Christophe Egles, Román A. Pérez, Denisa Fikai, Cem Bulent Ustundag (Editors); Springer; ISBN 978-3-031-35831-9; 390pages
4. Angela Spoială, Cornelia-Ioana Ilie, **Denisa Fikai**, Anton Fikai; Chapter 2. A Review of Soil Phytoremediation Technologies; in Pesticide Residues: Chemistry, Toxicology and Environmental Impact; David J. Goode (Editor); Nova Science Publishers, Inc.; pg 63 – 89; ISBN: 979-8-88697-557-4 (English)
5. Alina Moroșan; Alexa-Maria Croitoru; Georgiana Dolete; Angela Spoială; **Denisa Fikai**; Anton Fikai; Mariana Carmen Chifiriuc. Nanotechnologies - A Modern Approach against the Development of Bacterial Resistance; Austin Publishing Group. Vol. 1, Chapter 3, pp. 39-48.
6. **FICAI, D.**, Grumezescu, A.M., Nanostructures for Novel Therapy: Synthesis, Characterization and Applications (Book) *Nanostructures for Novel Therapy: Synthesis, Characterization and Applications*, 2017, pp. 1-872
7. **Fikai D**, Fikai A. Prevention of biofilm formation by material modification. Biofilms and Implantable Medical Devices: Infection and Control: Elsevier Inc.; 2016. p. 160-180;
8. **Denisa Fikai**, Madalina Georgiana Albu, Maria Sonmez, Anton Fikai, Ecaterina Andronescu; Chapter 13 - Advances in the field of soft tissue engineering: From pure regenerative to integrative solutions *in* Nanobiomaterials in Soft Tissue Engineering Applications of Nanobiomaterials Volume 5; *Alexandru Grumezescu (Ed)*; Elsevier, 2016; 355-386;
9. Fikai A, **Fikai D**, Andronescu E, Yetmez M, Ozkalayci N, *et al.* Nanotechnology in dentistry. Nanobiomaterials in Dentistry: Applications of Nanobiomaterials: Elsevier Inc.; 2016. p. 187-210. **(English)**;
10. **Denisa FICAI**, Anton FICAI, Ecaterina ANDRONESCU; Advances in Cancer Treatment; Role of Nanoparticles; INTECH, 2015, 1-21 **(English)**;
11. Ecaterina ANDRONESCU, Alexandru Mihai GRUMEZESCU, Cristina GHITULICA, Anton FICAI, **Denisa FICAI** and Mariana Carmen CHIFIRIUC; Novel Approach to Fabricate Magnetic Nanostructures for Biomedical Applications; Nanotechnology – Vol. 5 Drug

- Delivery & Nanomedicine; STUDIUM PRESS LLC, ISBN: 1-62699-007-751-89 (38pages, **English**);
12. **Denisa FICAI**, Anton FICAI, Alexandru Mihai GRUMEZESCU; Organic Chemistry; Workbook of theoretical Applications; SITECH Publishing House, Craiova 2012; ISBN 978-606-11-2343-8 (340 pages, Romanian);
 13. Anton FICAI, Ecaterina ANDRONESCU, Georgeta VOICU and **Denisa FICAI**; "Advances in Collagen/Hydroxyapatite Composite Materials" in "Advances in composite materials for medicine and nanotechnology" Editura INTECH, 2011, ISBN 978-953-307-235-7 pg. 3-32 (**English**);
 14. Anton FICAI, **Denisa Mânzu**, Volumetrie. De la teorie la aplicații de laborator, Editura Politehnica Press, 2009 ISBN 978-606-515-037-9 (170 pg) (Romanian);
 15. Florina Dumitru, Cornelia Guran, Mihaela-Diana Serb, **Denisa Manzu**, Chimia metalelor tranzitionale-Aplicatii, Editura Printech, Bucuresti, (ISBN 978-606-521-005-9), 198pg, 2008.

C. lucrari indexate ISI/BDI publicate in ultimii 10 ani

Lucrari indexate ISI

- [1] D.A. Vasile, L. Motelica, L.A. Mirt, G. Vasilievici, O.M. Memecica, O.C. Oprea, A.V. Surdu, R.D. Trusca, C. Chircov, B.S. Vasile, Z.D. Ghizdavit, D. Fikai, A.M. Albu, R. Pericleanu, A.S. Dumbrava, M.M. Mihai, I. Gheorghe-Barbu, A. Fikai, Antimicrobial Functionalized Mesoporous Silica FDU-12 Loaded with Bacitracin, *Molecules* 31(2) (2026) 30.
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