

Personal information

First name(s) / Surname(s)	**Anton FICAI**
Address(es)	Work: 1-7 Gh Polizu St, District 1, 011061 Bucharest, Romania

Current employment / Occupational field	**Professor, Ph. D. Habil. Eng.** **Associate member of Academy of Romanian Scientists**

Work experience

Dates	25 September 2017 - onward
Occupation or position held	**Prof. Habil. Dr. Eng.**
Main activities and responsibilities	**Teaching activities** (classes and/or applications): Composite Materials for Medicine, Chemistry, Drug Delivery Systems, Chemistry and Characterisation of Materials, Nanobiomaterials for Tissue Engineering; **Research activities**
Name and address of employer	POLITEHNICA University of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Oxide Materials and Nanomaterials
Type of business or sector	Education + Research

Dates	February 2015 - September 2017
Occupation or position held	**Assoc. prof. PHD**
Main activities and responsibilities	Teaching activities (classes and/or applications): Composite Materials for Medicine, General Chemistry, Drug Delivery Systems, Bioceramics; Research activities
Name and address of employer	POLITEHNICA University of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Oxide Materials and Nanomaterials
Type of business or sector	Education

Dates	Oct. 2011 - 2015
Occupation or position held	**Lecturer, PHD**
Main activities and responsibilities	Teaching activities: Composite Materials for Medicine, Chemistry and Drug Delivery Systems; Research activities
Name and address of employer	POLITEHNICA University of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Oxide Materials and Nanomaterials
Type of business or sector	Education

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Dates	2006 - 2011
Occupation or position held	**Assistant professor**
Main activities and responsibilities	Teaching & research activities
Name and address of employer	POLITEHNICA University of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Analytical Chemistry and Instrumental Analysis
Type of business or sector	Education

Dates	14-20 July 2014
Occupation or position held	**Invited professor**
Main activities and responsibilities	Teaching activities in the field of composite materials and biomaterials
Name and address of employer	University Beira Interior
Type of business or sector	Education

Education and training

Dates	May 2010 - March 2013
Title of qualification awarded	**Postdoctoral fellow**
Principal subjects/occupational skills covered	Nanomaterials - Biomaterials
Name and type of organisation providing education and training	University POLITEHNICA of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Oxide Materials and Nanomaterials
Level in national or international classification	Postdoctoral studies

Dates	2006-2009
Title of qualification awarded	**PhD. Eng.**
Principal subjects/occupational skills covered	Chemical Engineering
Name and type of organisation providing education and training	POLITEHNICA University of Bucharest, Faculty of Applied Chemistry and Materials Science
Level in national or international classification	PhD studies

Dates	2005-2007
Title of qualification awarded	**Master of Science degree**
Principal subjects/occupational skills covered	Materials, Substances and Biocompatible Systems
Name and type of organisation providing education and training	University POLITEHNICA of Bucharest, Department of Bioengineering and Biotechnology
Level in national or international classification	PhD studies

Dates	2000-2005
Title of qualification awarded	**Chemical Engineer**
Principal subjects/occupational skills covered	Organic Chemistry
Name and type of organisation providing education and training	University POLITEHNICA of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Organic Chemistry
Level in national or international classification	Academic degree

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Personal skills and competence

Mother tongue(s) **Romanian**

Other language(s)	Understanding				Speaking				Writing	
Self-assessment	Listening		Reading		Spoken interaction		Spoken production			
European level (*)										
ENGLISH	B2	Independent User	B2	Independent User	B2	Independent User	B2	Independent User	B1	Independent User
ITALIAN	A1	Basic user	A2	Basic user	A1	Basic user	A2	Basic user	A1	Basic user
FRENCH	A1	Basic user	A2	Basic user	A1	Basic user	A2	Basic user	A1	Basic user

(*) Common European Framework of Reference for Languages

Social skills and competences: Team work: I was employed as researcher or as manager in 15 national or international research projects (4 as project manager)

Organisational skills and competences: During the faculty's years I was involved in most of the student activities (chief of the student hostel) acquiring good organizational skills
I was involved in the organizing committee of the "CD Nenițescu Days"

Technical skills and competences: Technical skills were obtained and continuous improved due to the various attended training courses: chromatography, IR, AAS and ICP-MS spectroscopy

Computer skills and competences: Independent USER of WINDOWS XP and Windows 7, MS Office, Macromedia Firefox, Fireworks, Origin etc. .

Additional information

Fields with specific interests: Bone, Bone grafts, Biomaterials, Nanomaterials and Technologies, Chemistry; Prosthetic Tubular Devices, Drug Delivery System; Materials for Environmental Applications, etc.

Publications

- Over 250 per-reviewed published works (over 185 is indexed in ISI Web of Science); cumulative impact factor >300; Hirsh index 25 (ISI); No. of citations > 1750;
- 16 Books and Chapters of books;
- 3 patent issued by OSIM and 6 pending Patent Applications

Editorial Boards

Editorial board:

- **Coatings – MDPI (2019-onward)** - ISI journal **– Section Editor in Chief**
- **Revista Romana de Materiale - Romanian Journal of Materials** (2017-present) – ISI Indexed
- **Advanced Nano-Bio-Materials and Devices – SciEdTech – Editor in Chief**
- **Jacobs Journal of Materials Science (Remedy Publications)** (2016-onwards)
- **Resource-Efficient Technologies** (2016-onward)
- **Dovepress** (2015 – onwards) – **consulting editor**
- **Bentham Science – Bentham Ambassador**
- **Materials Science and Engineering Journal** (2017-onwards)
- **Quantitative Imaging in Medicine and Surgery** (2015–2017) – SCOPUS indexed
- **Journal of Nanomaterials, Nanotechnology and Nanomedicine**, (2015-onward)
- **Biointerface Research in Applied Chemistry** (2011-present) - – ISI indexed
- **Scientific Bulletin of University „POLITEHNICA" of Bucharest –** Serie B: Chemistry and Materials Sciences (2010-present) – ISI indexed.

Guest editor:

- **Design and performances of medical devices: from bulk to surface modification,** Current Medicinal Chemistry (2019);
- **New challenges in cancer treatment, from novel agents to innovative administration,** Anti-Cancer Agents in Medicinal Chemistry (2019);
- **Nanobiosensors in Food Industry**, Sensors (2017)
- **Sustainability of Nanotechnology: Novel Approaches;** Sustainability (2017);
- **Smart Drug Delivery Systems,** Current Drug Targets (2015);
- **Engineered Magnetic Core@Shell Structures,** Current Pharmaceutical Design

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2015;
- **Engineered Biomaterials for Tissue Regeneration**, The Science World Journal (2014).

Reviewer
- **Journal of Cellular and Molecular Medicine** (Wiley, ISI factor 5,6);
- **Journal of Molecular Structure** (Elsevier, ISI factor 1,594);
- **Materials Letters** (Elsevier, ISI factor 1,94);
- **Materials Chemistry and Physics** (Elsevier, ISI factor 2,353);
- **Materials Science and Engineering B** (Elsevier, ISI factor 1,56);
- **Journal of Applied Polymer Science** (Wiley, ISI factor 1,24);
- **Journal of Nanoparticle Research** (Springer, ISI factor 3. 287);
- **Chemical paper** (Springer, ISI factor 1. 076);
- **Current Nanoscience** (Bentham, ISI factor 1,776);
- **Romanian Journal of Materials** (ISI factor 0. 378);
- **Iranian Polymer Journal** (Springer, ISI factor 0. 936);
- **Journal of Research in Environmental Science and Toxicology;**
- **Journal of Nanoscience and Nanotechnology.**

Research Projects 38 research projects with national and international financing (9 of them being project manager/responsible)

1. **Action CA17118**, "Identifying Biomarkers Through Translational Research for Prevention and Stratification of Colorectal Cancer" (TRANSCOLONCAN); Role: Researcher/ **Responsible of UPB**; Period of implementation: 2018-2022
2. **Action CA18132;** Functional Glyconanomaterials for the Development of Diagnostics and Targeted Therapeutic Probes; Role: Researcher/ **Responsible of UPB**; Period of implementation: 2018-2022
3. PN-III-P4-ID-PCCF-2016-0114; Antibiotic Resistance in Wastewater: Transmission Risks for Employees and Residents around Waste Water Treatment Plants / Rezistența la antibiotice în apele uzate: Riscuri de transmitere la angajați și la rezidenții din proximitatea stațiilor de tratare aapelor reziduale.; Role: Researcher/ **Responsible of UPB**; Period of implementation: 2018-2022
4. PN-III-P1-1.2-PCCDI-2017-0697; Intelligent therapies for non-communicable diseases based on controlled release of pharmacological compounds from encapsulated engineered cells and targeted bionanoparticles / Terapii inteligente pentru boli non-comunicabile bazate pe eliberarea controlata de compusi farmacologici din celule incapsulate dupa manipulare genetica sau bionanoparticule vectorizate; Period of implementation: 2018-2020
5. PN-III-P1-1.2-PCCDI-2017-0629; Innovative Bionanomaterials for Treatment and Diagnosis / Bionanomateriale Inovative pentru Tratament si Diagnostic; Period of implementation: 2018-2020
6. PN-III-P1-1.2-PCCDI-2017-0749; Bioactive nanostructures for innovative therapeutical strategies / Nanostructuri bioactive pentru strategii terapeutice inovatoare; Period of implementation: 2018-2020
7. PN-III-P1-1.2-PCCDI-2017-0689; Lib2Life- Revitalizarea bibliotecilor şi a patrimoniului cultural prin tehnologii avansate; Period of implementation: 2018-2020
8. Grants JINR·RO 2018; Complementary characterization and SANS modelling of magnetic multilayered suprastructures for targeted cancer therapv; Topic #04-4-1121 2015/2020; Responsible UPB; Period of implementation: 2018;
9. Project JINR-RO 2018; Development and characterisation of magnetic nanostructures for targeted cancer therapy; Responsible UPB; Period of implementation: 2018;
10. Project JINR-RO 2018; Mesoporous silica doped with magnetite nanoparticles for controlled release rate of biologically active substances; Role: member of team/researcher; Period of implementation: 2018;
11. PN-III-P2-2. 1-PED-2016-0427; Realizare demonstrator in tehnologia planara de tranzistor cu tunelare a izolatorilor ultrasubtiri - ca promotor al unei serii de nano-dispozitive si evidentierea utilitatii in industrie; Role: Researcher; Period of implementation: 2017-2018
12. PN-III-P2-2. 1-PED-2016-0952 "Structuri poroase biomimetice obţinute prin printare 3D pentru ingineria ţesutului osos" Role: Researcher; Period of implementation: 2017-2018
13. **63/10. 04. 2017/IUCN DUBNA; Nanostructured magnetic colloids for targeted cancer therapy; Role: project manager; Period of implementation: 2017**
14. PN-III-P2-2. 1-PTE-2016-0146; Novel nanostructured polymeric composite designed for pallet lining, connecting plate and other components for the railway

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industry**;** Role: Researcher/ **Responsible of UPB**; Period of implementation: 2016-2018;

15. 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;
16. 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;
17. **POC-D; Prototip pentru validare nanotehnologie inovatoare şi linie de producţie (P_39_240), manager de proiect**
18. 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: 2015-2018;
19. 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;
20. „**Installations of National Interest / Instalatii de Interes National: *Creerea Centrului National de Micro si Nanomateriale / Creation of the National Centre of Micro- and Nanomaterials*" Role: project manager; Period of implementation: 2014-2019**
21. PNCDI II – Partnership: Ligaments reconstruction by using advanced materials based on synthetic and natural polymers/Reconstrucţia 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: 2014-2017;
22. 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 Cercetător; Period of implementation: 2014-2017;
23. POSSCE-A2-O2. 2. 1. -2013-1 - *Crearea Centrului Naţional de Cercetări Ştiinţifice pentru Siguranţa Alimentară; Nr 1970,* Cod SMIS – CSNR 48652; Role: **Scientific Responsible**; Period of implementation: 2014-2016;
24. MPNS COST Action MP1301: New Generation Biomimetic and Customized Implants for Bone Engineering; Role: member of the Romania team; 2013-2017
25. TD COST Action TD1305: Improved Protection of Medical Devices Against Infection (IPROMEDAI); Role: member of the Romania team; 2013-2017
26. 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 şi control ale unor alimente de origine animală şi nonanimală pentru identificarea unor factori de risc potenţial cancerigeni în relaţia mediu, fermă, procesare, transport, consum; Ctr. Nr. 67/ADER 8. 1. 4; Role Researcher; Period of implementation: 2013-2014;
27. **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: Project manager; Period of implementation: 2012-2016;**
28. 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: Researcher; 2012-2016;
29. PNCDI II – CAPACITATI (Modulul II) Perspective Studies „NanoProspect"**;** Role: Researcher; Period of implementation: 2010-2011;
30. PNCDI II – CAPACITATI (Modulul III) - Bilaterala Romania-Germania/Natural nanoparticles in soil as possible environmental vectors for contaminants; Ctr. Nr. 327/18. 08. 2009; Role: Researcher; Period of implementation: 2009;
31. PNCDI II – Partnership: Multifunctional nanobiocomposites used as regenerative and drug delivery support–SIMAC; Ctr. Nr. 72_198; Role: Researcher; Period of implementation: 2008– 2011;
32. PNCDI II – Partnership: Lead-free piezoelectric materials chemically processed from aqueous solution / Materiale piezoelectrice fara plumb procesate prin metode chimice in solutie – MPPC; Ctr. Nr. 72_153; Role: Researcher; Period of implementation: 2008 – 2011;
33. PNCDI II – Partnership**:** Miniaturized biosensor, micro technology, organophosphorous insecticides, acetylcholinesterase (AChE), acetylthiocholine (ACh) / Microtehnologia obtinerii de biosenzori miniaturizati pentru detectare

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rapida a contaminantilor din produsele alimentare; Ctr. Nr. 52_173; Role: Researcher; Period of implementation: 2008 – 2011;

34. PNCDI II – Partnership: Experimental and Epidemiological study related to the action of Persistent Organic Pollutants on growing, development, function of tiroidian immunity and estrogenic secretion / Studiu epidemiologic si experimental privind actiunea poluantilor organici persistenti (POP) pe cresterea, dezvoltarea, functia si imunitatea tiroidiana si pe secretia estrogenica; Ctr. Nr. 32_176/01. 10. 2008; Role: Researcher; Period of implementation: 2008–2011;
35. **Proiect PN II_MC – Electric field influence on collagen mineralization process; Role: Project manager; Period of implementation: 2008;**
36. PNCDI II– Partnership: The achievement of new biomaterials with collagenic, supramolecular doped structures with piezoelectical, liquid crystals, electrical and magnetical properties used for biotehnology; Ctr. Nr. 71_147; Role: Researcher; Period of implementation: 2007 – 2010;
37. **PN II_TD – Collagen/Hydroxyapatite Composite Materials; Role: Project manager; Period of implementation: 2007 – 2009;**
38. **PN II_BD – Composite Biomaterials based on Collagen and Hydroxyapatite; Role: Project manager; Period of implementation: 2006 – 2009;**
39. P-CD CEEX: Combinatorial library for the synthesis of neutral receptors of inorganic anions; from project to potential applications; Role: Researcher; Period of implementation: 2006–2008;
40. PNCDI I-CERES type PED/Hybrid membranar materials with polyphosphazenic backbone; Role: Researcher; Period of implementation: 2002- 2004.

Prizes and Awards: **2019: International Specialized Exhibition "INFOINVENT2019"- XVIth Edition, 20-23 November 2019, Chisinau, Republic of Moldova**

„Antibiotic resistance in wastewater: Transmission risks for employees and residents around wastewater treatment plants - Rezistența la antibitotice în apele uzate: riscuri de transmisie pentru angajați și rezidenți în jurul stațiilor de tartare a apelor uzate" Authors Laura Ioana Popa, Ilda Czobor Barbu, Irina Gheorghe, Luminița Mărușescu, Marcela Popa, Ionela Sârbu, Grațiela Grădișteanu, Bianca Trușcă, Anton Ficai, Dan Eduard Mihaiescu, Bogdan Purcarea, Oana Săndulescu, Anca Streinu Cercel, Dan Oțelea, Adrian Streinu Cercel, Violeta Corina Cristea, Mihai Nita Lazar, Alina Banciu, Veronica Lazăr, Mariana Carmen Chifiriuc

"**Gold medal**" awarded by International Jury of InfoInvent 2019

"**Excellence diploma with special mention**" awarded by State University of Medicine and Pharmacy „Nicolae Testemițanu", Moldova

"**Excellence diploma**" awarded by University of Agronomic Science and Veterinary Medicine „King Mihai I of Romania", Timișoara

Denisa FICAI, Ioana ARDELEAN, Cornelia ILIE, Manuela CĂLIN, Elena-Valeria FUIOR, Adrian FIFERE, Mariana PINTEALĂ, Gheorghe FUNDUEANU-CONSTANTIN, Anton FICAI, Maya SIMIONESCU, Ecaterina ANDRONESCU "Separator (electro)magnetic vertical a nanoparticulelor izomagnetice", A 01055/05.12.2018 înregistrată la OSIM

"**Gold medal**" awarded by the International Jury of InfoInvent 2019

"**Excellence diploma with gold medal**" awarded by State University of Medicine and Pharmacy „Nicolae Testemițanu", Moldova

"Polymer vesicles and tubes and technology of manufacturing / Vezicule și tuburi polimerice și tehnologie de obținere a acestora", Denisa FICAI; Andreea ILIEV; Anton FICAI; Violeta Georgeta TRUSCA; Anca Violeta GAFENCU; Sanda-Maria BUCATARIU; Gheorghe FUNDUEANU-CONSTANTIN; Maya SIMIONESCU; Ecaterina ANDRONESCU

"**Gold medal**" awarded by the International Jury of InfoInvent 2019

"**Gold medal**" awarded by Technical University of Moldova

"**Excellence diploma and Mechatron Group Trophy"** awarded by Mecatronic & Cyber - MixMecatronic for Future Group

"**Excellence diploma**" awarded by State University of Medicine and Pharmacy „Nicolae Testemițanu", Moldova

2019: 4th International Invention Innovation Competition in Canada – Ican 2019; August 23-24, Toronto, Canada

"Synthesis procedure of some multifunctional composite materials with potential applications in bone cancer treatment" **authors: A FICAI, E**

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ANDRONESCU, C. D. GHITULICA, D. FICAI, Georgeta VOICU, G. M. ALBU
"**Gold medal**" awarded by the International Jury of ICan 2019
"Special Prize and Excellence diploma" awarded by the delegate of Thailand

***"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**" awarded by the International Jury of ICan 2019
"Special Prize and Excellence diploma" awarded by the Moroccan Delegation

"Certificate of Appreciation" awarded by the International Jury of ICan2019 to Anton FICAI

2019: 11h European Exhibition of Creativity and Innovation-EuroInvent 2019, 16-18 May 2019, Iasi, Romania
"Polymer vesicles and tubes and technology of manufacturing / Vezicule și tuburi polimerice și tehnologie de obținere a acestora", Denisa FICAI; Andreea ILIEV; Anton FICAI; Violeta Georgeta TRUSCA; Anca Violeta GAFENCU; Sanda-Maria BUCATARIU; Gheorghe FUNDUEANU-CONSTANTIN; Maya SIMIONESCU; Ecaterina ANDRONESCU- A 01054/05.12.2018
"**Gold medal and Excellence diploma**" awarded by the international Jury of Euroinvent 2019
Gold medal and Excellence diploma" awarded by "Carol Davila" University of Medicine and Pharmacy Bucharest
Excelence award and Gold medal and Excellence diploma" awarded by ICECHIM Bucharest
Gold medal and Excellence diploma, awarded by "Romanian Association of Pteridology, Bucharest
Special Prize awarded by "Alexandru Ioan Cuza" University of Iasi

"Vertical electromagnetic separator of the isomagnetic nanoparticles / Separator (electro)magnetic vertical a nanoparticulelor izomagnetice", Denisa FICAI, Ioana ARDELEAN, Cornelia ILIE, Manuela CĂLIN, Elena-Valeria FUIOR, Adrian FIFERE, Mariana PINTEALĂ, Gheorghe FUNDUEANU-CONSTANTIN, Anton FICAI, Maya SIMIONESCU, Ecaterina ANDRONESCU; National patent application A 01055/05.12.2018
"**Gold medal and Excellence diploma**" awarded by the international Jury of Euroinvent 2019
Gold medal and Excellence diploma" awarded by NIRD URBAN-INCERC

2019: 23rd International Exhibition of Inventics – Inventica 2019, 26-18 June 2019, Iasi, Romania
„Antibiotic resistance in wastewater: Transmission risks for employees and residents around wastewater treatment plants - Rezistența la antibitotice în apele uzate: riscuri de transmisie pentru angajați și rezidenți în jurul stațiilor de tartare a apelor uzate" Authors Laura Ioana Popa, Ilda Czobor Barbu, Irina Gheorghe, Luminița Măruțescu, Marcela Popa, Ionela Sârbu, Grațiela Grădișteanu, Bianca Trușcă, Anton Ficai, Dan Eduard Mihaiescu, Bogdan Purcarea, Oana Săndulescu, Anca Streinu Cercel, Dan Oțelea, Adrian Streinu Cercel, Violeta Corina Cristea, Mihai Nita Lazar, Alina Banciu, Veronica Lazăr, Mariana Carmen Chifiriuc
"Diploma of Excellence" awarded by International Jury of Inventica 2019

"Vertical electromagnetic separator of the isomagnetic nanoparticles / Separator (electro)magnetic vertical a nanoparticulelor izomagnetice", Denisa FICAI, Ioana ARDELEAN, Cornelia ILIE, Manuela CĂLIN, Elena-Valeria FUIOR, Adrian FIFERE, Mariana PINTEALĂ, Gheorghe FUNDUEANU-CONSTANTIN, Anton FICAI, Maya SIMIONESCU, Ecaterina ANDRONESCU; National patent application A 01055/05.12.2018
"**Diploma of honour and Gold Medal**" awarded by the International Jury of Inventica 2019
"**Special Prize**" awarded by SodinExpo, Russia

"Polymer vesicles and tubes and technology of manufacturing / Vezicule și

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tuburi polimerice și tehnologie de obținere a acestora", Denisa FICAI; Andreea ILIEV; Anton FICAI; Violeta Georgeta TRUSCA; Anca Violeta GAFENCU; Sanda-Maria BUCATARIU; Gheorghe FUNDUEANU-CONSTANTIN; Maya SIMIONESCU; Ecaterina ANDRONESCU- A 01054/05.12.2018

"**Diploma of honour and Gold Medal**" awarded by the International Jury of Inventica 2019

"**Special Prize**" awarded by SodinExpo, Russia

"**Excellence diploma**" awarded by State University of Medicine and Pharmacy „Nicolae Testemițanu", Moldova

Gold Medal Award for Excellence awarded to Anton FICAI; awarded by "Carol Davila" University of Medicine and Pharmacy, Bucharest

"Gold medal and Excellence diploma, awarded by "Romanian Association of Pteridology, Bucharest to Anton FICAI

2019: International Salon for Scientific Research, Innovation and Inventions, "ProInvent", 20-22 March 2019, Cluj Napoca, Romania

"Polymer vesicles and tubes and technology of manufacturing / Vezicule și tuburi polimerice și tehnologie de obținere a acestora", Denisa FICAI; Andreea ILIEV; Anton FICAI; Violeta Georgeta TRUSCA; Anca Violeta GAFENCU; Sanda-Maria BUCATARIU; Gheorghe FUNDUEANU-CONSTANTIN; Maya SIMIONESCU; Ecaterina ANDRONESCU- A 01054/05.12.2018

Diplomă de excelență și medalia de aur awarded by the International Jury of ProInvent

"Special Prize and Excellence diploma" awarded by University of Agronomic Science and Veterinary Medicine, Bucharest

"**Excellence diploma and Gold medal**" awarded by Technical University of Moldova

"**Excellence diploma**" awarded by Iustin Capra Association

"Vertical electromagnetic separator of the isomagnetic nanoparticles / Separator (electro)magnetic vertical a nanoparticulelor izomagnetice", Denisa FICAI, Ioana ARDELEAN, Cornelia ILIE, Manuela CĂLIN, Elena-Valeria FUIOR, Adrian FIFERE, Mariana PINTEALĂ, Gheorghe FUNDUEANU-CONSTANTIN, Anton FICAI, Maya SIMIONESCU, Ecaterina ANDRONESCU; National patent application A 01055/05.12.2018

"**Excellence diploma and Gold medal**" awarded by the International Jury of ProInvent

"Special Prize and Excellence diploma" awarded by University of Agronomic Science and Veterinary Medicine, Bucharest

"**Excellence diploma**" awarded by University of Agronomic Science and Veterinary Medicine, "King Mihai I of Romania", Timisoara

"Special Prize" awarded by Romanian Association for Alternative Technologies – ARTA Sibiu

Special Award awarded by Corneliu Group; Special Award awarded by Romanian Association for Alternative Technologies;

"**Excellence diploma and INCDMTM Trophy"** awarded by INCDMTM

***"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**

"**Excellence diploma and Gold medal**" awarded by the International Jury of ProInvent

"Special Prize and Excellence diploma" awarded by University of Agronomic Science and Veterinary Medicine, Bucharest

***"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)**

"**Excellence diploma and Gold medal**" awarded by the International Jury of ProInvent

"Special Prize and Excellence diploma" awarded by University of Agronomic Science and Veterinary Medicine, Bucharest

"**Excellence diploma with special mention**" awarded by State University of

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Medicine and Pharmacy „Nicolae Testemițanu", Moldova

"Functionalized magnetic systems for environmental applications; Denisa FICAI, Ecaterina ANDRONESCU, Cornelia GURAN, Anton FICAI, A00164/2011"
"**Excellence diploma and Gold medal**" awarded by the International Jury of ProInvent

2019: IDEA-EXPO 2019 IDEA, Novelty, Invention, Art and Crafts International Exhibition and Fair, 06-07 April 2019, Szolnok, Hungary
"Functionalized magnetic systems for environmental applications; Denisa FICAI, Ecaterina ANDRONESCU, Cornelia GURAN, Anton FICAI, A00164/2011"
"**Excellence diploma**" awarded by the International Jury of IDEA

"Polymer vesicles and tubes and technology of manufacturing / Vezicule și tuburi polimerice și tehnologie de obținere a acestora", Denisa FICAI; Andreea ILIEV; Anton FICAI; Violeta Georgeta TRUSCA; Anca Violeta GAFENCU; Sanda-Maria BUCATARIU; Gheorghe FUNDUEANU-CONSTANTIN; Maya SIMIONESCU; Ecaterina ANDRONESCU- A 01054/05.12.2018
"**Excellence diploma**" awarded by the International Jury of IDEA

"Vertical electromagnetic separator of the isomagnetic nanoparticles / Separator (electro)magnetic vertical a nanoparticulelor izomagnetice", Denisa FICAI, Ioana ARDELEAN, Cornelia ILIE, Manuela CĂLIN, Elena-Valeria FUIOR, Adrian FIFERE, Mariana PINTEALĂ, Gheorghe FUNDUEANU-CONSTANTIN, Anton FICAI, Maya SIMIONESCU, Ecaterina ANDRONESCU; National patent application A 01055/05.12.2018
"**Excellence diploma**" awarded by the International Jury of IDEA

***"Synthesis procedure of some multifunctional composite materials with potential applications in bone cancer treatment"* authors: A Ficai, E Andronescu, C. D. Ghitulica, D. Ficai, G Voicu, G. M. Albu**
"**Excellence diploma**" awarded by the International Jury of IDEA

***"Osteoconductive and osteoinductive bone grafts and process for their manufacturing"* authors A. Ficai, E. Andronescu, M.G. Albu, D. Ficai, M. Sonmez**
"**Excellence diploma**" awarded by the International Jury of IDEA

"Functionalized magnetic systems for environmental applications; Denisa Ficai, Ecaterina Andronescu, Cornelia Guran, Anton Ficai, A00164/2011"
"**Excellence diploma**" awarded by the International Jury of IDEA

2019: 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**" awarded by the 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**" awarded by the International Jury of IPITEX
"**Special Award**" awarded by Advanced Tech Smart

2018: World Competition of Chemical Inventions IWIS2018_15-17Oct 2018, Warsaw, Poland
"Bronze medal" awarded for the invention "*Osteoconductive and osteoinductive bone grafts and process for their manufacturing"* authors A. Ficai, E. Andronescu, M.G. Albu, D. Ficai, M. Sonmez;
"Silver Medal" for the patent "*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
"Silver Medal" for the patent "*Magnetite/thioacids@Ag or Au multifunctional*

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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)

"Bronze medal" awarded for "Functionalized magnetic systems for environmental applications", Denisa Ficai, Anton Ficai, Cornelia Guran, Ecaterina Andronescu, A00164/2011; (RO127889 (A2); RO127889 (B1))

2018 20th International Conference on Synthetic Polymer Chemistry, Nanoscience and Nanotechnology - ICSPCNN 2018:

Certificate of Best Presentation Award for the paper „Synthesis and Characterization of Some Alginate Hollow Fibres Using Co-Axial Needles" authored by Anton Ficai, Ioana Lavinia Ardelean, Roxana Doina Trusca, Bogdan Stefan Vasile, Denisa Ficai, Ecaterina Andronescu

2018 International Salon for Scientific Research, innovation and Inventions, "ProInvent", Cluj Napoca, Romania

"Gold medal with special mention" (for the patent application A00734/27. 09. 2017 "Innovative formulations for dental applications" authors: Anton FICAI, Denisa FICAI, Ovidiu OPREA, Ecaterina ANDRONESCU, Stefan MANEA, Anna-Maria PANGICĂ, Petru BODOGA, Ludmila MOTELICA);

"Excellence diploma" awarded by Justin Capra Association (for the patent application A00734/27. 09. 2017 "Innovative formulations for dental applications" authors: A FICAI, D FICAI, O OPREA, E ANDRONESCU, S MANEA, A-M PANGICĂ, P BODOGA, L MOTELICA);

"Gold medal and Excellence diploma" awarded by "Nicolae Testemiţeanu" Medicine and Pharmacy State University, Moldavia (for the patent application A00734/27. 09. 2017 "Innovative formulations for dental applications" authors: Anton FICAI, Denisa FICAI, Ovidiu OPREA, Ecaterina ANDRONESCU, Stefan MANEA, Anna-Maria PANGICĂ, Petru BODOGA, Ludmila MOTELICA);

"Gold medal with special mention" (for the patent application A01045/07.12. 2017 "Polymer/Ceramic Composite Materials and Process for their Manufacturing" authors: A FICAI, MG ALBU-KAYA, D FICAI, V MITRAN, A CIMPEAN, E ANDRONESCU)

"Excelence diploma" awarded by Justin Capra Association (for the patent application A01045/07. 12. 2017 "Polymer/Ceramic Composite Materials and Process for their Manufacturing" authors: A FICAI, MG ALBU-KAYA, D FICAI, V MITRAN, A CIMPEAN, E ANDRONESCU)

"Excellence Diploma" awarded by "Nicolae Testemiţeanu" Medicine and Pharmacy State University, Moldavia (for the patent application A01045/07. 12. 2017 "Polymer/Ceramic Composite Materials and Process for their Manufacturing" authors: A FICAI, MG ALBU-KAYA, D FICAI, V MITRAN, A CIMPEAN, E ANDRONESCU).

2018 Salonul Internaţional de Invenţii şi Inovaţii "Traian VUIA", Timişoara, Romania

"Gold medal" (for the patent application "Compositions and process for obtaining innovative enzymatic formulations for root canal lavage" authors Anton FICAI, Denisa FICAI, Ovidiu OPREA, Stefan MANEA, Anna-Maria PANGICĂ, Petru BODOGA, Camelia AGAPESCU);

"Gold Medal" for the patent "*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

"Bronze Medal" (for the patent application "Bone grafts based on collagen, calcium phosphate and zinc and process for their manufacturing" authors A. FICAI, E. ANDRONESCU, D. FICAI, M. SONMEZ, I. A. NEDELCU, M. G. ALBU);

"Gold Medal" (for the patent application "Grefe osoase osteoinductive si osteoconductive si procedeu de obţinere a acestora" A00239/23. 03. 2013);

"Gold Medal" (for the invention "*Magnetite/thioacids@Ag or Au multifunctional systems used for diagnosis and targeted delivery in cancer"* A/00238/2013)

"Gold Medal" (for the invention "Functionalized magnetic systems for environmental applications*"* RO 127889)

"Special Award" awarded by Otlet Club 13 for the series of the presented inventions

"Special Prize" awarded by State University of Medicine and Pharmacy "Nicolae Testemiţanu", Moldova (for the patent application "Bone grafts based on collagen, calcium phosphate and zinc and process for their manufacturing" authors A. Ficai, E. Andronescu, D. Ficai, M. Sonmez, I.A. Nedelcu, M.G. Albu);

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"Special Prize" awarded by State University of Medicine and Pharmacy "Nicolae Testemiţanu", Moldova (for the invention "*Osteoconductive and osteoinductive bone grafts and process for their manufacturing"* authors A. Ficai, E. Andronescu, M.G. Albu, D. Ficai, M. Sonmez);
"Special Prize + Gold Medal" awarded by State University of Medicine and Pharmacy "Nicolae Testemiţanu", Moldova (for the patent "*Synthesis procedure of some multifunctional composite materials with potential applications in bone cancer treatment"* authors: A Ficai, E Andronescu, C.D. Ghitulica, D. Ficai, G. Voicu, G.M. Albu);
"Special Prize" awarded by Universitatea de Medicină şi Farmacie "Victor Babeş" din Timişoara (for the patent "*Synthesis procedure of some multifunctional composite materials with potential applications in bone cancer treatment"* authors: A Ficai, E Andronescu, C.D. Ghitulica, D. Ficai, G. Voicu, G.M. Albu);
"Excellence Diploma" awarded by Banat's University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania", Timişoara (for the researches in the medical field for the authors A. Ficai, D. Ficai, M Sonmez, O Oprea, BS Vasile, S Manea, AM Pangica, P Bodoga, C Agapescu, C.D. Ghitulica, E Andronescu;

2018: 22th International Exhibition of Inventics - Inventica; 27-29. 06. 2018, Iasi, Romania
"Gold medal" (for the patent application A01045/07. 12. 2017 "Polymer/Ceramic Composite Materials and Process for their Manufacturing" authors: Anton FICAI, Mădălina Georgiana ALBU-KAYA, Denisa FICAI, Valentina MITRAN, Anişoara CIMPEAN, Ecaterina ANDRONESCU);
"Gold medal" (for the project "Novel nanostructured polymeric composite designed for pallet lining, connecting plate and other components for the railway industry" authors: Anton FICAI, Laura ALEXANDRESCU, Ligian TUDOROIU);
"Gold medal" (for the project "Titanium Oxynitride Coatings for the Improvement of Biocompatibility and Long-Term Functionality of Cardiovascular Stents: Development of Novel Deposition Technology- TIOXTECH-BIO" authors: A Ficai, OR Duta, D Ficai, E. Andronescu, et al.)
"Excelence diploma and Gold Medal" awarded by ICECHIM (for the patent application A00734/27. 09. 2017 "Innovative formulations for dental applications" authors: Anton FICAI, Denisa FICAI, Ovidiu OPREA, Ecaterina ANDRONESCU, Stefan MANEA, Anna-Maria PANGICĂ, Petru BODOGA, Ludmila MOTELICA);
"Excelence diploma and Gold Medal" awarded by ICECHIM (for the project "Titanium Oxynitride Coatings for the Improvement of Biocompatibility and Long-Term Functionality of Cardiovascular Stents: Development of Novel Deposition Technology- TIOXTECH-BIO" authors: A Ficai, OR Duta, D Ficai, E. Andronescu, et al.);
"Special Prize + Gold Medal" awarded by State University of Medicine and Pharmacy "Nicolae Testemiţanu", Moldova (for the project "Titanium Oxynitride Coatings for the Improvement of Biocompatibility and Long-Term Functionality of Cardiovascular Stents: Development of Novel Deposition Technology- TIOXTECH-BIO" authors: A Ficai, OR Duta, D Ficai, E. Andronescu, et al.);
"Special Prize" awarded by "Lucian Blaga" University of Sibiu (for the patent application A00734/27. 09. 2017 "Innovative formulations for dental applications" authors: Anton FICAI, Denisa FICAI, Ovidiu OPREA, Ecaterina ANDRONESCU, Stefan MANEA, Anna-Maria PANGICĂ, Petru BODOGA, Ludmila MOTELICA);
"Innovation Award" awarded by "Carol Davila" University of Medicine and Pharmacy, Bucharest (for the project "Titanium Oxynitride Coatings for the Improvement of Biocompatibility and Long-Term Functionality of Cardiovascular Stents: Development of Novel Deposition Technology- TIOXTECH-BIO" authors: A Ficai, OR Duta, D Ficai, E. Andronescu, et al.);

2018: 10th European Exhibition of Creativity and Innovation-EuroInvent 2017, 17-19 may 2018, Iasi, Romania
"Gold Medal" for the patent application A00734/27. 09. 2017 "Innovative formulations for dental applications" authors: Anton FICAI, Denisa FICAI, Ovidiu OPREA, Ecaterina ANDRONESCU, Stefan MANEA, Anna-Maria PANGICĂ, Petru BODOGA, Ludmila MOTELICA;
"Silver medal" (for the patent application A01045/07. 12. 2017

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"Polymer/Ceramic Composite Materials and Process for their Manufacturing" authors: Anton FICAI, Mădălina Georgiana ALBU-KAYA, Denisa FICAI, Valentina MITRAN, Anișoara CIMPEAN, Ecaterina ANDRONESCU);
"Special Prize" awarded by Universitatea Tehnica a Moldovei (for the patent application A01045/07. 12. 2017 "Polymer/Ceramic Composite Materials and Process for their Manufacturing" authors: Anton FICAI, Mădălina Georgiana ALBU-KAYA, Denisa FICAI, Valentina MITRAN, Anișoara CIMPEAN, Ecaterina ANDRONESCU);

2017 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.

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, Anton Ficai, Denisa Ficai, Bogdan Stefan Vasile, Roxana Doina Trusca, Dragos Gudovan, Ovidiu Oprea, Motelica Ludmila, Ecaterina Andronescu.

2017 Best paper awarded by WASET during 19th International Conference on Nanotechnology and Nanomedicine the - ICNN 2017: held at Prague, Czech Republicfor the paper: Nanostructured Wound Dressings for Prevention and Treatment of Skin Infections, Anton FICAI, Roxana Doina TRUSCA, Alina Holban, Denisa FICAI, Ecaterina ANDRONESCU.

2017: 21th International Exhibition of Inventics - Inventica; 28-30. 06. 2017, Iasi, Romania
"Gold medal" (for the project "Cellulose fibers functionalization in order to design the properties of the finite products" authors Anton FICAI, Ecaterina ANDRONESCU, Maria SONMEZ, Denisa FICAI, Ioan Avram NEDELCU; Madalina Georgiana ALBU);
"Gold medal" (for the invention "*Compositions and process for obtaining innovative enzymatic formulations for root canal lavage" authors* Anton FICAI, Denisa FICAI, Ovidiu OPREA, Stefan MANEA, Anna-Maria PANGICĂ, Petru BODOGA, Camelia AGAPESCU*)*
"Gold medal" (for the patent "*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" (for the patent application "Bone grafts based on collagen, calcium phosphate and zinc and process for their manufacturing" authors A. FICAI, E. ANDRONESCU, D. FICAI, M. SONMEZ, I. A. NEDELCU, M. G. ALBU)
"Special prize" awarded by Romanian Association for alternative Technologies – ARTA Sibiu (for the invention "*Compositions and process for obtaining innovative enzymatic formulations for root canal lavage" authors* Anton FICAI, Denisa FICAI, Ovidiu OPREA, Stefan MANEA, Anna-Maria PANGICĂ, Petru BODOGA, Camelia AGAPESCU*)*;
"Special prize" awarded by State University of Medicine and Pharmacy "Nicolae Testemiţanu", Moldova (for the project "*Synthesis procedure of some multifunctional composite materials with potential applications in bone cancer treatment"* authors: Anton FICAI, Ecaterina ANDRONESCU, Cristina Daniela GHITULICA, Denisa FICAI, Georgeta VOICU, Georgiana Madalina ALBU);
"Special prize" awarded by State University of Medicine and Pharmacy "Nicolae Testemiţanu", Moldova (for the invention "*Compositions and process for obtaining innovative enzymatic formulations for root canal lavage" authors* Anton FICAI, Denisa FICAI, Ovidiu OPREA, Stefan MANEA, Anna-Maria PANGICĂ, Petru BODOGA, Camelia AGAPESCU*)".*

2017: 9th European Exhibition of Creativity and Innovation-EuroInvent 2017, 25-27. 05. 2017; Iaşi, 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 NEDELCU; Madalina Georgiana ALBU);
"Special prize" awarded by Institutul de Chimie al Academiei de Ştiinţe din Moldova (for the invention "Bone grafts based on collagen, calcium phosphates

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and zinc and process for their manufacturing" authors Anton FICAI, Ecaterina ANDRONESCU, Maria SONMEZ, Denisa FICAI, Ioan Avram NEDELCU; 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 A FICAI, E ANDRONESCU, M SONMEZ, D FICAI, IA NEDELCU; MG ALBU);
"Silver medal" (for the invention "*Compositions and process for obtaining innovative enzymatic formulations for root canal lavage" authors A FICAI, D FICAI, O OPREA, S MANEA, A-M PANGICĂ, P BODOGA, C 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, Stefan 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: 8th European Exhibition of Creativity and Innovation-EuroInvent 2016, 19-21. 05. 2016; Iaşi, 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*"*);
"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: XXth International Salon of Research, Innovation and Technological Transfer - Inventica 2016; 29. 06-01. 07. 2016, Iasi, Romania
Gold medal – The Hamangia Thinker (for the invention "Functionalized magnetic systems for environmental applications, A00164/2011*"*);
"Gold medal" (for the invention "*Osteoconductive and osteoinductive bone grafts and process for their manufacturing"*)
"Gold medal" (for the invention "Multifunctional system based on *Magnetite/thioacids@Ag or Au used for diagnosis and targeted delivery in cancer"*)

2016: 44th International Exhibition of Inventions, 13–17. 04. 2016; Geneva, Switzerland
"Gold medal" (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: 7th European Exhibition of Creativity and Innovation-EuroInvent 2015, Iaşi, Romania
"Gold medal" (for patent application "Layered Composite Based on Polypropylene Reinforced with Treated Glass Fibre Fabric").

2012: BRUSSELS INNOVA - The World Exhibition on Inventions, Research and New Technologies (for bone cancer treatment)
"Gold medal" (Procedeu de obtinere a unor materiale compozite cu potentiale aplicatii în tratarea cancerului osos, Patent No. 127725/30. 03. 2015)

2012: Prize: "Best Published Paper–2009" awarded by Syscomm–"Materiale Plastice"

2011: Prize: "In tempore opportuno" awarded by University POLITEHNICA of Bucharest

2005: Valedictorian diploma awarded by University POLITEHNICA of Bucharest/ Faculty of Applied Chemistry and Materials Science

2005: 2nd Prize: Annual Session of Scientific Communications - Analytic Chemistry Section awarded by University POLITEHNICA of Bucharest– Faculty of Applied Chemistry and Materials Science

2005: 2nd Prize: Annual Session of Scientific Communications – Organic Chemistry Section awarded by University POLITEHNICA of Bucharest– Faculty of Applied

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Chemistry and Materials Science

2004: 2nd Prize: Annual Session of Scientific Communications – CD Nenitzescu Days awarded by University POLITEHNICA of Bucharest– Faculty of Applied Chemistry and Materials Science

2004: Special Prize: Annual Session of Scientific Communications – CD Nenitzescu Days awarded by prof. dr. eng. Claude Matasa, general manager of OrthoCycle Company, Hollywood, Florida, USA

2002: 2nd Prize: Annual Session of Scientific Communications - Inorganic Chemistry Section awarded by University POLITEHNICA of Bucharest– Faculty of Applied Chemistry and Materials Science

2001: 1st Prize: Annual Session of Scientific Communications - Inorganic Chemistry Section awarded by University POLITEHNICA of Bucharest– Faculty of Applied Chemistry and Materials Science

2001: 1st Prize: Petru Spacu Analytical Chemistry Contest awarded by University POLITEHNICA of Bucharest–Faculty of Applied Chemistry and Materials Science

2000: Honorary Citizen issued by Local Council and Municipality of Baia Mare, Romania

2000: Special Prize: Selection for the "Romanian National Chemistry Team" awarded by Romanian Ministry of Education

1999: 3rd Prize: III Chemistry National Olympiad, Brasov awarded by Romanian Ministry of Education

1998: 3rd Prize: Chemistry National Olympiad, Baia Mare awarded by Romanian Ministry of Education

Organizing committee

2018: International Symposium of Chemical Engineering and Materials SICHEM 2018

2018: 2nd Biennial Oil, Gas and Petrochemical Conference (OGPC2018), Bushehr, Iran, 14 Nov 2018

2018: 8th International Conference on Environmental Pollution and Remediation (ICEPR'18); 19-21 August 2018, Madrid, Spain

2017: Romanian International Conference on Chemistry and Chemical Engineering, 6-9 September 2017; Poiana Brasov, Romania.

2017: 2017 ICG Annual Meeting and 32nd Şişecam Glass Symposium; October 22-25th 2017, Istanbul, Turkey

2016: 6th International Advances in Applied Physics and Materials Science Congress & Exhibition, 1-3 June 2016, Steigenberger Hotel Maslak, İstanbul, Turkey

Specializations:

- 25-26 June 2009: How to write scientific papers: organized by CNCSIS-UPB
- 12-16 June 2009: ESF Summer School in Nanomedicine, Lisbon, Portugal
- June – August 2004 Research stage at Universita degli Studii di Modena e Reggio Emilia, Italy; New electrochemical sensors; (3 months)
- September – December 2005 Research stage at OrtoCycle Co. Hollywood, Florida, USA; Improving dental adhesives
- 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

07. 04. 2020 **Anton FICAI**

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Anton FICAI

PHD THESIS: Composite Biomaterials based on Collagen and Hydroxyapatite

POSTDOCTORAL THESIS: Composite Biomaterials

BOOKS AND CHAPTERS

1. **Anton Ficai**, Alexandru Grumezescu (Editors); Nanostructures for Antimicrobial Therapy; Elsevier Science Publishing Co Inc; 722pages; ISBN 0323461522; 2017;
2. *Alexandru Mihai Grumezescu, **Anton Ficai** (Editors); Nanostructures for Cancer Therapy; Elsevier Science Publishing Co Inc; 920pages; ISBN 0323461522; 2017;*
3. Ficai D, **Ficai A.** Prevention of biofilm formation by material modification. Biofilms and Implantable Medical Devices: Infection and Control: Elsevier Inc.; 2016. p. 160-180;
4. Mariana Carmen Chifiriuc, **Anton Ficai**, Alexandru Mihai Grumezescu, Lia-Mara Ditu, Marcela Popa, Carmen Iordache, Alina Maria Holban, Şerban Vifor Gabriel Beresteanu, Raluca Grigore, Veronica Lazar; Chapter 1 - Soft tissue engineering and microbial infections: Challenges and perspectives; in *Nanobiomaterials in Soft Tissue Engineering*, *2016*, *1-29;*
5. Denisa Ficai, Madalina Georgiana Albu, Maria Sonmez, **Anton Ficai**, 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;*
6. **Ficai A,** Ficai 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**);
7. DENISA FICAI, **ANTON FICAI**, ECATERINA ANDRONESCU; Advances in Cancer Treatment; Role of Nanoparticles; INTECH, 2015, 1-21 (**English**);
8. Alexandru Mihai Grumezescu, Alina Maria Holban, **Anton Ficai**, Valentina Grumezescu, Veronica Lazar and Mariana Carmen Chifiriuc: Nanosized Materials with Antibiofilm Activity. Recent Developments in Biotechnology Vol. 10: Nano-Biotechnology, Studium Press LLC, Houston, USA, 2013 (**English**);
9. Mariana Carmen Chifiriuc, Alexandru Mihai Grumezescu, **Anton Ficai**, Alina Maria Holban: Applications of Nanotechnology for the Development of New Microbicidal and Microbiostatic Strategies. Recent Developments in Biotechnology Vol. 10: Nano-Biotechnology, Studium Press LLC, Houston, USA, 2013 (**English**);
10. 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**);
11. 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);
12. **Anton FICAI**, Ecaterina ANDRONESCU; Biomateriale compozite pe bază de colagen şi hidroxiapatită utilizate în reconstrucţia osoasă (*Collagen and hydroxyapatite based composite biomaterials for bony tissue reconstruction*); Politehnica Press, 2011; ISBN: 978-606-515-257-1 (180 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 aplicaţii de laborator, Editura Politehnica Press, 2009 ISBN 978-606-515-037-9 (170 pg) (Romanian);
15. Ion ION, Alina Catrinel ION şi **Anton FICAI**, **Probleme de chimie analitică,** Ed. a II-a (revizuită şi îmbunătăţită), Ed. Printech, 2005, ISBN: 973-718-394-0 (Romanian);
16. Ion ION, Alina Catrinel ION şi **Anton FICAI, Probleme de chimie analitică,** Ed. Cartea Universitară, 2003, ISBN: 973-7956-11-7(Romanian);
17. Alina Catrinel ION, Ion ION, **Anton FICAI**, Dragos ŞTEFAN; Environmental analytical chemistry. Applications of nanosensors. Chemically modified electrode for NO_2 determination in environmental applications; Seria - Micro and nanoengineering, Volume 11 - "Progress in nanoscience and nanotechnologies", Editori: Dan Dascalu, Irina Kleps şi Alina Catrinel ION; 2007: 231-239 (**English**).

ISSUED PATTENTS:

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