



Personal information

First name(s) / Surname(s) **Anton FICAI**
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Nationality Romanian

Current employment / Occupational field **Professor, Ph. D. Habil. Eng. UPB; Faculty of Chemical Engineering and Biotechnologies**
Associate member of Academy of Romanian Scientists

Work experience

Dates 25 September 2017 – onward

Occupation or position held **Prof. Habil. Dr. Eng. (3266/02.03.2016)**

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 Chemical Engineering and Biotechnologies, 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

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.** (OMEC 3492/23.03.2010; 228/13.04.2010)
 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 Organic Chemistry;
 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 (Valedictorian diploma)**
 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

Personal skills and competences

Mother tongue(s)	Romanian				
Other language(s)					
Self-assessment	Understanding		Speaking		Writing
<i>European level (*)</i>	Listening	Reading	Spoken interaction	Spoken production	
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 over 50 national or international research projects (14 as project manager/responsible)
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 Neîţescu Days"
Technical skills and competences	Technical skills were obtained and continuously 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 300 peer-reviewed published works (over 230 is indexed in ISI Web of Science); cumulative impact factor >560; Hirsh index 33 (ISI); Times of citations > 3500 (self-citations excluded);
- 18 Books and Chapters of books;
- 9 patent issued by OSIM and 23 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 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** 55 research projects with national and international financing (16 of them being project manager/responsible)
1. **RO-MD2023; Nanostructured bone grafts with predetermined properties / Grefoase nanostructurate cu proprietăți prestabilite; Project Manager; total Budget 500 000Eur; Period of implementation: 2024-2026**
 2. **M Era Net; Innovative stent coating with polyphenol-rapamycin complex with improved drug-eluting properties to target in-stent-restenosis; Project Manager from Romanian Side / responsible; Budget share of UNSTPB 182 551Eur - total Budget 1.149.922Eur;**
 3. **Flag Era; Smart nerve Grafts based on Graphene-related composite materials with electric-triggering capability for central and peripheral nervous system regeneration Smart2Graph; Role: Project Coordinator Budget: 971 732Eur;**
 4. **PN-III-P1-1.1-TE-2021-1242; Glass functionalisation and decoration with nanoparticles: a challenging way to induce new applications; Role: Project manager, Period of implementation: 2022-2024**
 5. PN-III-P2-2.1-PED-2021-3177; Superior recovery of recycled polyethylene by compounding with chemically modified starch and nanopowders in order to obtain materials with antimicrobial properties for REPRAP 3D printers; Role: researcher, Period of implementation: 2022-2024
 6. PN-III-P2-2.1-PED-2021-0627; Innovative multifunctional composites for the protection of cultural heritage objects; Role: Researcher, Period of implementation: 2022-2024
 7. PN-III-P2-2.1-PED-2021-3414; Innovative antimicrobial food packages for advanced food security; Role: Researcher, Period of implementation: 2022-2024
 8. PN-III-P2-2.1-PED-2021-1788; Innovative nanostructured nutraceuticals with synergistic bioactivities for hepato-digestive protection; Role: Researcher, Period of implementation: 2022-2024
 9. Action CA20126, "Network for research, innovation and product development on porous semiconductors and oxides" (NANOPORE); Role: **Responsible Romanian side**; Period of implementation: 2021-2025
 10. PN-III-P1-1.1-PD-2019-1156; Novel 2D nanocomposite membranes based on chitosan for water purification/ Noi membrane nanocompozite 2D pe bază de chitosan pentru purificarea apei; Postdoctorand Angela SPOIALA; Period of implementation: 2020-2022 (**Rol – Mentor**).
 11. PN-III-P1-1.1-PD-2019-1185- Nanomateriale bioactive pentru terapie combinată: modularea infecțiilor microbiene și prevenția recurenței tumorale; Postdoctorand Valentina Grumezescu (**Rol – Mentor**).
 12. PN-III-P1-1.1-TE-2019-1450/TE 103/Platformă microfluidică multifuncțională de tipul lab-on-a-chip pentru fabricarea nanoparticulelor/Multifunctional lab-on-a-chip microfluidic platform for the fabrication of nanoparticles; Rol: Cercetator; Period of implementation: 23.10.2020-22.10.2022
 13. PN III (2013-2020) / PED 2019; Valorificarea nanoparticulelor magnetice in dezvoltarea unui micro-dispozitiv magnetic / contract No. 522/23.10.2020; Role: Researcher; Period of implementation: 23.10.2020-22.10.2022
 14. PN III (2013-2020) / PED 2019; Evaluarea potentialului de exploatare a materialelor poroase in tratarea disbiozelor microbiotei / Evaluation of the exploitation potential Potential of Porous Materials in the tREatment of Microbiota-related dISeasEs – contract No. 524/23.10.2020; Role: Researcher; Period of implementation: 23.10.2020-22.10.2022
 15. PN-III-P2-2.1-PED-2019-1375; Elaborarea de noi antiseptice pe baza de oxid de zinc pentru tratarea clinica a plagilor; Role: Researcher; Period of implementation: 2020-2022
 16. **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
 17. **Action CA18132**; Functional Glyconanomaterials for the Development of Diagnostics and Targeted Therapeutic Probes; Role: Researcher/ **Responsible of UPB**; Period of implementation: 2018-2022
 18. 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 tartare a apelor reziduale; Role: Researcher/ **Responsible of UPB**; Period of implementation: 2018-2022
19. 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
 20. 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
 21. 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;
 22. PN-III-P1-1.2-PCCDI-2017-0689; Lib2Life- Revitalizarea bibliotecilor și a patrimoniului cultural prin tehnologii avansate; Period of implementation: 2018-2021;
 23. Grants JINR-RO 2018; Complementary characterization and SANS modelling of magnetic multilayered suprastructures for targeted cancer therapy; Topic #04-4-1121 2015/2020; **Responsible UPB**; Period of implementation: 2018;
 24. Project JINR-RO 2018; Development and characterisation of magnetic nanostructures for targeted cancer therapy; **Responsible UPB**; Period of implementation: 2018;
 25. 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;
 26. PN-III-P2-2. 1-PED-2016-0427; Realizare demonstrator in tehnologia planara de tranzistor cu tunelare a izolatoarelor ultrasubțiri - ca promotor al unei serii de nano-dispozitive și evidențierea utilitatii in industrie; Role: Researcher; Period of implementation: 2017-2018;
 27. PN-III-P2-2. 1-PED-2016-0952 “Biomimetic 3D-printed porous scaffolds for bone tissue engineering / Structuri poroase biomimetice obținute prin printare 3D pentru ingineria țesutului osos” Role: Researcher; Period of implementation: 2017-2018;
 28. **63/10. 04. 2017/IUCN DUBNA; Nanostructured magnetic colloids for targeted cancer therapy; Role: project manager; Period of implementation: 2017;**
 29. 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;
 30. PN-III-P2-2. 1-PTE-2016-0156; Harnessing recycled thermoplastic polymers by reinforcement with functionalized natural fibers to obtain new added-value products; Role: Researcher; Period of implementation: 2016-2018;
 31. 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;
 32. **POC-D; Prototip pentru validare nanotehnologie inovatoare și linie de producție (P_39_240), manager de proiect;**
 33. 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: 2016-2018;
 34. 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;
 35. **„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;**
 36. 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: 2014-2017;
 37. 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;
 38. POSSCE-A2-O2. 2. 1. -2013-1 - *Crearea Centrului Național de Cercetări Științifice*

- pentru Siguranța Alimentară; Nr 1970, Cod SMIS – CSNR 48652; Role: **Scientific Responsible**; Period of implementation: 2014-2016;*
39. MPNS COST Action MP1301: New Generation Biomimetic and Customized Implants for Bone Engineering; Role: member of the Romania team; 2013-2017
 40. TD COST Action TD1305: Improved Protection of Medical Devices Against Infection (IPROMEDAI); Role: member of the Romania team; 2013-2017
 41. 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;
 42. **PNCIDI 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;**
 43. PNCIDI 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;
 44. PNCIDI II – CAPACITATI (Modulul II) Perspective Studies „NanoProspect”; Role: Researcher; Period of implementation: 2010-2011;
 45. PNCIDI II – CAPACITATI (Modulul III) - Bilateral Romania-Germania/Natural nanoparticles in soil as possible environmental vectors for contaminants; Ctr. Nr. 327/18. 08. 2009; Role: Researcher; Period of implementation: 2009;
 46. PNCIDI II – Partnership: Multifunctional nanobiocomposites used as regenerative and drug delivery support–SIMAC; Ctr. Nr. 72_198; Role: Researcher; Period of implementation: 2008– 2011;
 47. PNCIDI 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;
 48. PNCIDI II – Partnership: Miniaturized biosensor, micro technology, organophosphorous insecticides, acetylcholinesterase (AChE), acetylthiocholine (ACh) / Microtehnologia obtinerii de biosenzori miniaturizati pentru detectare rapida a contaminantilor din produsele alimentare; Ctr. Nr. 52_173; Role: Researcher; Period of implementation: 2008 – 2011;
 49. PNCIDI 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;
 50. **Proiect PN II_MC – Electric field influence on collagen mineralization process; Role: Project manager; Period of implementation: 2008;**
 51. PNCIDI II– Partnership: The achievement of new biomaterials with collagenic, supramolecular doped structures with piezoelectrical, liquid crystals, electrical and magnetical properties used for biotechnology; Ctr. Nr. 71_147; Role: Researcher; Period of implementation: 2007 – 2010;
 52. **PN II_TD – Collagen/Hydroxyapatite Composite Materials; Role: Project manager; Period of implementation: 2007 – 2009;**
 53. **PN II_BD – Composite Biomaterials based on Collagen and Hydroxyapatite; Role: Project manager; Period of implementation: 2006 – 2009;**
 54. 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;
 55. PNCIDI I-CERES type PED/Hybrid membranal materials with polyphosphazenic backbone; Role: Researcher; Period of implementation: 2002- 2004.

Prizes and Awards: Over 100 Prizes and Awards including:
Romanian Research Gala (Gala Cercetării Românești), 1st edition, Bucharest, Romania, Organized by the Ministry of Research, Innovation and Digitization under the Aegis of the Romanian Government
Special Award for Transfer of the Results into Economy Capital Gala, Special Prize for Research
“Gândit in Romania” Gala, Special Prize for Research
“In tempore opportuno” awarded by University POLITEHNICA of Bucharest
Valedictorian diploma awarded by University POLITEHNICA of Bucharest/ Faculty of Applied Chemistry and Materials Science
Honorary Citizen issued by Local Council and Municipality of Baia Mare, Romania
Special Prize: Selection for the “Romanian National Chemistry Team” awarded by Romanian Ministry of Education
3rd Prize: Chemistry National Olympiad, Brasov awarded by Romanian Ministry of Education
3rd Prize: Chemistry National Olympiad, Baia Mare awarded by Romanian Ministry of Education

Organizing committee

2022: 6th International Congress on 3D Printing (Additive Manufacturing) Technologies and Digital Industry 2022 (hybrid); 22-23 November, 2022 Bucharest, Romania

2022: Virtual International Scientific Conference on “Applications of Chemistry in Nanosciences and Biomaterials Engineering – NanoBioMat 2022”, 24-26 November 2022;

2022: International Symposium of Chemical Engineering and Materials SICHEM 2022, 17-18 November 2022;

2022: Virtual International Scientific Conference on “Applications of Chemistry in Nanosciences and Biomaterials Engineering – NanoBioMat 2022”, 22-24 June 2022;

2022: 35th International Conference on Nanomaterials and Nanotechnology; March 25-26, 2022 Berlin, Germany;

2022: Conferința Științifico-Practică Internațională „Instruire prin Cercetare pentru o Societate Prosperă”, ediția a IX-a; Chișinău, 19 – 20 martie 2022;

2021: Virtual International Scientific Conference on “Applications of Chemistry in Nanosciences and Biomaterials Engineering – NanoBioMat 2021” 25-26 June and 25-27 November 2021;

2021: A XIII-a Conferință de Știința și Ingineria Materialelor Oxidice, CONSILOX, Alba Iulia, România 1-3 Octombrie 2021;

2021: Conferința științifică internațională „Abordări Inter/ Trans-disciplinare în Predarea Științelor Reale, (Concept STEAM)”; Republica Moldova, Chișinău, 29 - 30 octombrie 2021;

2020: The 8 International Conference on Advanced Materials and Systems, 1-3 October, Bucharest, ROMANIA;

2020: International Symposium of Chemical Engineering and Materials SICHEM 2020; 17-18 September 2020, Bucharest;

2020: Simpozionul internațional “Prioritățile Chimiei pentru o Dezvoltare Durabilă”, PrioChem Editia XVI, Bucuresti, 28-30 Octombrie 2020;

2020: 10th International Conference on Environmental Pollution and Remediation (ICEPR'20); 19-21 August 2020, Prague, Czech Republic;

2019: Școala De Vară: “Nanoparticule inteligente pentru livrarea direcționată de compuși bioactivi: preparare, caracterizare și aplicații”; 23-24 mai 2019;

2019: Romanian International Conference on Chemistry and Chemical Engineering 2018, 6-7 September, Romania;

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

LISTA DE LUCRARI
Anton FICAI

PHD THESIS: Composite Biomaterials based on Collagen and Hydroxyapatite

POSTDOCTORAL THESIS: Composite Biomaterials

BOOKS AND CHAPTERS

1. Ludmila Motelica, Ovidiu Oprea, Denisa Ficai, and Anton Ficai; Introduction to Biomaterials and Tissue Engineering, (Chapter 1, pages 1-30) in Biomaterials and Tissue Engineering; Oguzhan Gunduz, Christophe Egles, Román A. Pérez, Denisa Ficai, Cem Bulent Ustundag (Editors); Springer; ISBN 978-3-031-35831-9; 390pages
2. Angela Spoială, Cornelia-Ioana Ilie, Denisa Ficai, and Anton Ficai; Biomaterials, Chapter 4, pages 97-130 in Biomaterials and Tissue Engineering; Oguzhan Gunduz, Christophe Egles, Román A. Pérez, Denisa Ficai, Cem Bulent Ustundag (Editors); Springer; ISBN 978-3-031-35831-9; 390pages
3. Paul Adrian Tărăbuță, Ludmila Motelica, Denisa Ficai, Ovidiu Oprea, Anton Ficai, 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 Ficai, Cem Bulent Ustundag (Editors); Springer; ISBN 978-3-031-35831-9; 390pages
4. Angela Spoială, Cornelia-Ioana Ilie, Denisa Ficai, Anton Ficai; 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 Ficai; Anton Ficai; Mariana Carmen Chifiriuc. Nanotechnologies - A Modern Approach against the Development of Bacterial Resistance; Austin Publishing Group. Vol. 1, Chapter 3, pp. 39-48. (**English**)
6. **Anton Ficai**, Alexandru Grumezescu (Editors); Nanostructures for Antimicrobial Therapy; Elsevier Science Publishing Co Inc; 722pages; ISBN 0323461522; 2017; (**English**)
7. *Alexandru Mihai Grumezescu, Anton Ficai (Editors); Nanostructures for Cancer Therapy; Elsevier Science Publishing Co Inc; 920pages; ISBN 0323461522; 2017; (English)*
8. 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; (**English**)
9. Mariana Carmen Chifiriuc, **Anton Ficai**, Alexandru Mihai Grumezescu, Lia-Mara Ditu, Marcela Popa, Carmen Iordache, Alina Maria Holban, Șerban 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; (English)*
10. 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; (**English**)
11. **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**);
12. DENISA FICAI, **ANTON FICAI**, ECATERINA ANDRONESCU; Advances in Cancer Treatment; Role of Nanoparticles; INTECH, 2015, 1-21 (**English**);
13. 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**);
14. 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**);
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