

Curriculum Vitae

PERSONAL INFORMATION Prof. Florin MICULESCU (Dr. Habil. Eng. BSc.)



313 Splaiul Independenței, Building J, Office JK 101, District 6, Bucharest, România florin.miculescu@upb.ro, f_miculescu@yahoo.com, florin.miculescu@gmail.com

www.florinmiculescu.ro, +40.21.316.95.63

ORCID ID: 0000-0001-6757-5616 Researcher ID: A-4524-2011 Brainmap ID: U-1700-039K-8235

Sex: Male

Nationality: Romanian

Higher Education – Scientific Research

WORK EXPERIENCE Period

OCUPATIONAL FIELD

2015 - present 2013 - 2015	Professor Associate Professor
2009 - 2013	Lecturer
2006 - 2009	Assistant Professor

Materials Engineering

Materials Science and Engineering Faculty, University Politehnica of Bucharest, 313 Splaiul Independentei, District 6, Bucharest, România

- Teaching courses:

 Materials Science;
 Materials Characterization Techniques;
 Electron Microscopy and Microanalysis;
 Biomaterials Analysis and Control Techniques;
 Biomaterials Testing and Investigation
- Research in the field of materials, biomaterials and nanomaterials synthesis, processing and characterization
- Head of:
 Electron Microscopy Laboratory (since 2001);
 Biomaterials and Nanomaterials Synthesis, Processing and Characterization Laboratory (since 2017)

Business or sector: Higher Education - Scientific Research

AND TRAINING

EDUCATION

2014

2010-2013

2007

Habilitation title – PhD. Students coordinator in Materials Engineering field University Politehnica of Bucharest, 313 Splaiul Independenței, District 6, Bucharest, România

Habilitation Thesis: "Materials for bones reconstruction and thin layers analysis by computer simulation and microanalytical experiment", Dr.Habil. Title by Ministerial Order No. 378/15.07.2014

Post-doctoral training

University Politehnica of Bucharest, 313 Splaiul Independenței, District 6, Bucharest, România Materials Science and Engineering field, on "Nanostructured thin layers with multiple applications" in the Sectorial Operational Program Human Resources Development 2007 - 2013, POSDRU / 89 / 1.5 / S / 54785

Post-doctoral training

Kavli Institute of Nanoscience, Technical University of Delft, Netherlands 3 months on Electron Microscopy and Nanotechnology - Intensive Program for Transfer of Knowledge to Eastern Europe Reference Pole for Micro- and Nanotechnologies (NANOTEC-EST), FP6-Marie Curie Actions-ToK, Contract no. 014059/2005

Qualification awarded / main themes

- Communication skills using advanced techniques
- Research and teaching on materials synthesis, precessing and characterization

1. A.			
Keuropass	Curriculum Vitae	Prof. Florin Miculescu	
2006	 Doctoral degree in Materials Engineering University Politehnica of Bucharest, 313 Splaiul Independenței, District 6, Bucharest PhD. Thesis: "Experimental research on the biomaterial-tissue interface interactions Biomaterials, Materials Science, Electron Microscopy and Microanalysis, Materia Techniques Skills on materials synthesis and precessing, materials and nanomaterials invest implantology and biomaterials - tissue interactions 	s" Is Characterisation	
1996-2001	 Engineer degree- Valedictorian University Politehnica of Bucharest, 313 Splaiul Independenței, District 6, Bucharess Material Science, Chemistry, Materials Analysis Techniques, Materials Structure Engineering, Materials Thermal Processing Skills on materials synthesis, processing and characterization 		
Aditional training	 Teaching training courses Psychopedagogical training course Ist level, Teacher Training Department from Un of Bucharest, Order Nr. 123 / 22.01.2002, Diploma Series D, No. 0002823 Psychopedagogical training course IInd level, Teacher Training Departmer Politehnica of Bucharest, Order, No. 0199 / 09.07.2018, Diploma Series A, No. 0002 	nt from University	
	 Advanced training programs June 2007 – on materials thermophysical properties, at ANTER Corporation in Pite May 2006 – on biomaterials, at the Technical University of Lisbon, Portugal December 2005 – on scanning electron microscopy and EDS spectrometry, Chemistry and Materials Physics of Strasbourg, France July 2003 – on ESEM microscopy and EDS spectrometry, at the Technical Ur Austria September 2002 – on SEM microscopy and EDS microanalysis, at FEI Eindhoven, Netherlands 	at the Institute of niversity of Vienna,	
PERSONAL SKILLS			
Mother tongue	Romanian UNDERSTANDING SPEAKING		
Other language(s) English French	UNDERSTANDING SPEAKING Listening Reading Spoken interaction Spoken produc C1 C1 C2 C2 A2 A2 A2 A2 A2 Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user Common European Framework of Reference for Languages	WRITING ction C2 A2	
Communication skills	Good communication and integration skills gained through teaching and research experience		
Organisational and Managerial skills	 Good organizational skills demonstrated as research projects team leader and working in teaching activities, also coordinating research activities as head of laboratory, project manager for teams involving teaching fellows, PhD. students, master students and bachelor students Leadership 		
Job-related skills	 Technical skills confirmed and shown in the statement of activities: design, implementation, analysis, characterization and demonstration on the properties and characteristics of materials, nanomaterials, biomaterials and devices 		
Computer skills	 Specialized on electron microscopy and microanalysis software Good command on software for: simulation of accelerated particle beams interaction with the solid state; molecular dynamics modelling; image analysis; micro&nano-CT Microsoft Office™ tools 		
Driving licence	Category: B		
ADDITIONAL INFORMATION			
Managed grants and resulting publications	 Project manager "New technology for the synthesis and manufacturing of biomimetic implants der resources used for bone reconstruction surgery", Grant PN-III-P2-2.1-PED-2016 years). Publications: WoS:000416184600078, WoS:000425731200016, WOS:00 "Integrated technology for custom-made biomimetic implants development used 	-0892, BiolmMS (2 00425731200017	
	defects reconstruction" Grant PN-II-RU-TE-2014-4-0590, BioMimBone (2 ye		



Curriculum Vitae

- "Combined methods for evaluation of the heavy metals contamination of human beings correlated with human hard tissues metabolism" Contract TE Nr.144/2010. (3 years). Publications: WoS: 000289716200028, WoS: 000297986100026, WoS: 000308047400007, WoS:000308313002379, WoS:000312710300032, WoS: 000315547300022, WoS:000323397900019, WoS:000336552600022
- "New methods for investigating the mechanisms involved in the tissue-biomaterial interaction", Grant CNCSIS Theme 11, Cod 190/2002 (3 years). Publications: WoS: 000251435200002; WoS: 000275165700018

Project team leader

- "Advanced research for producing combinatorial coatings of interest for fusion", Contract CNMP Nr. 72-223/2008, CAPACIF (3 years). Publications: WoS: 000286575200010
- "Spin valves: from combinatorial methods of processing to performance properties", Contract CNMP Nr. 71-032/2007, VALS (3 years). Publications: WoS: 000278579400006, WoS: 000286575200010
- "Production and study the behavior of coatings of carbon, tungsten and beryllium used in the first wall of thermonuclear fusion facilities", Contract CEEX nr. 10-89/2006, FUSITERMAT (2 years)
- "Depth analysis on the structural implications resulting from the use of alternative fuels in cement obtaining", Contract CEEX nr.121/10.10.2005, IARIS (3 years)

Honours and awards

- Special Award for the invention "Process for obtaining a product for the reconstruction of bone defects based on hydroxyapatite and biogenic biphasic calcium phosphate", at EUROINVENT 2021, Iași, România
- Gold medals (21): 2 at INOVA 2021 Zagreb, Croatia; 2 at Kaohsiung International Invention & Design Expo, 2021, Kaohsiung, Taiwan; at iCAN 2021, Toronto, Canada; at INTARG Poland, 2021; at the EIS Euroinvent 21, Chişinău, Republica Moldova; at INOVA 2019, Zagreb, Croația; at "IWIS", 2019, Warsaw, Poland; at the at the" Traian Vuia '19" Salon, 2019, Timisoara, România; at Pro Invent 2018, Cluj-Napoca, România; at IWIS 2017, Poland; 2 at 2017, Iasi, România; 2 at the "Traian Vuia" Inventions and Innovations International Salon 2017, Timisoara, România; 3 at Inventica 2017, Iasi, România; at Invent Invest 2017, Ungheni, Republica Moldova; at Rolnvent 2017, Cluj-Napoca, România
- Diplomas of excellence (9): at EIS Euroinvent 21, Chişinău, Republica Moldova; at ICAN 2021, Toronto, Canada; from the "lustin Capră" Assocciation of Inventors, 2019; at the 22nd International Salon of Inventory and Exhibition 2019, Iasi, România; at the" Traian Vuia '19" Salon, 2019, Timisoara, România; at Pro Invent 2018, Cluj-Napoca, România; at the International Fair of Inventions and Practical Ideas Invent Invest 2017, Ungheni, Republica Moldova; at the "Traian Vuia" Inventions and Innovations International Salon, 2017, Timisoara, România; at Rolnvent 2017, Cluj-Napoca, România
- Special Awardof Polish Patent Office for the invention "Method for obtaining scaffolds with predetermined physico-chemical characteristics for major bone reconstruction", at the 14th International Invention and Inovation Show INTARG Poland, 2021
- Special Honour of Invention from TISIAS Toronto International Society of Innovation & Advanced Skills, for the Patent "Method for obtaining scaffolds with predetermined physico-chemical characteristics for major bone reconstruction", at the Hrvatski Salon Inovacija S Medunarodnim Sudjelovanjem - INOVA, 13-16th of November 2019, Zagreb, Croația
- Special Award by Norton University for the Patent "Method for obtaining scaffolds with predetermined physico-chemical characteristics for major bone reconstruction", at the Hrvatski Salon Inovacija S Medunarodnim Sudjelovanjem - INOVA, 13-16th of November 2019, Zagreb, Croația
- Special Award from the Chinese Innovation & Invention Society (Taiwan) fort the Patent "Method for obtaining scaffolds with predetermined physico-chemical characteristics for major bone reconstruction", at the XIIIth International Warsaw Invention Show "IWIS", 16th of October 2019, Warsaw, Poland
- Special Award of the UMFT "Victor Babes" from Timisoara, for the patent application "Method for obtaining scaffolds with predetermined physico-chemical characteristics for major bone reconstruction", at the "Traian Vuia '19" Salon 5th edition, 12-14th of June 2019, Timisoara, România
- SRB Excellence Award, for the contribution in the biomaterials field in 2018
- Prize of the Romanian Inventors Forum, at the European Exhibition of Creativity and Innovation Euroinvent 2017, 25-27th of May 2017, Iasi, România
- Special Prize (Trophy), for valuable inventions (RO001/2017), at the "Traian Vuia" Inventions and Innovations International Salon, 3rd edition, 7-9th of June 2017, Timisoara, România
- SRB Excellence Award, for the contribution in the biomaterials field in 2016
- 4th place, at the 13th Edition of the National Contest for Scientific-Technic Creations, awarded by the Romanian Society of Metallurgy (SRM)
- SRB Scholarship, awarded by the Romanian Society for Biomaterials in 2007
- SRB Award, Poster Session at the 5th International Conference Bioremed, 2005, Iasi, România
- 2nd place, at the International Conference Journees Scientifiques du CFBD, 2003, Neuchâtel, l'Espace Perrier de Marin-Epagnier, Suisse
- >20 CNCSIS prizes Awarding of the research results
 © European Union, 2002-2013 | http://europass.cedefop.europa.eu

Curriculum Vitae

Representative publications

Memberships

5 books

- 9 book chapters at international publishing houses (4 at Wiley/ 3 at Springer/ 2 at IntechOpen)
- 1 book as Editor at international publishing house (MDPI)
- >110 Web of Science (WoS) quoted papers (>130 indexed papers), 33 in Q1 category (14 as principal author) and 13 in Q2 category (3 as principal author)
- >170 SCOPUS indexed papers
- Web of Science (WoS) cumulative impact factor as principal author >130, from a total >250
- >1000 Web of Science citations, excluding self-citations of all coauthors
- >1000 SCOPUS citations, excluding self-citations of all coauthors
- Web of Science h index = 25 (18 excluding self-citations of all coauthors)
- SCOPUS h index = 25 (18 excluding self-citations of all coauthors)
- scholar.google h index = 27
- >160 conference presentations (>30 oral communications / 12 as invited speaker / Chairperson at 12 conferences)
- Editorial Board Member of WoS indexed journals: Materials (Q1); Metals MDPI (Q2);
 - Journal of Advanced Biotechnology and Bioengineering; Journal of Functional Biomaterials;
 - Guest Editor of:

 Materials, Biomaterials and Implant Biocompatibility 2nd Ed., MDPI, (Q1) 2020-2021;
 Metals MDPI (Q2), "Metals as Biomaterials" (2020-2021),
 Materials– MDPI (Q1), "The Synthesis and Characterization of Biocompatible Materials" (2019-2020);
 Journal of Functional Biomaterials MDPI, "Bioceramics and Bioactive Glass-Based Materials" (2019-2020), Materials (Q2) MDPI, "Biomaterials and Implant Biocompatibility" (2018-2019);
 Journal of Nanomaterials (Q3) Hindawi Publishing Corporation, "Graphene Based Composites: From Theories to Advanced Applications" (2016-2017)
 - **Director** of the Doctoral School of the Faculty of Materials Science and Engineering, Politechnica University of Bucharest (2020 2024)
 - **President** of the Materials Engineering and Science Committee from the National Council for the Attestation of Titles, Diplomas and Academic Certificates CNATDCU (2020-2024)
 - **Member** of the Materials Engineering Committee from the National Council for the Attestation of Titles, Diplomas and Academic Certificates CNATDCU (2016-2020)
 - **Member** of the Directorial Board of the Doctoral School from Materials Science and Engineering Faculty (2016-2020)
 - Treasurer of the Romanian Society for Biomaterials SRB (2012-2014 and 2017-2020)
 - **President** of the Romanian Society for Biomaterials SRB (2014-2017)
 - Founding Member of the Romanian Society of Electron Microscopy (2013)
 - Member of the TERMIS International Society (2012 present)
 - Evaluation Expert of the UEFISCDI Materials Science Committee (2016 present)
 - Member of the research team in 5 international and over 60 national projects

Research Manager of third party projects (>60): • Henkel, • Honeywell, • Lindab, • Mechel, • Lukoil, • Scandia, • LAREX, • ALSTOM, • Steinel, • Afriso, • ALRO, • IcemEnerg, • Kvaerner, • ISPAT SIDEX, • IMNR, • UMF, • INEC, • INFLPR, • ICAA, • ICEM

 ◆ Prof. C. James Kirkpatrick, ◆ Prof. Viorel-Aurel Şerban, ◆ Prof. Horia Iovu, ◆ Prof. Iulian Ripoşan, ◆ Prof. Horia Ţierean, ◆ Prof. Corneliu Munteanu, ◆ Prof. José Miguel Martín-Martínez, ◆ Prof. Marioara Abrudeanu, ◆ CS I George E. Stan, ◆ CS I Cristian Lungu, ◆ CS I Victor Kuncser

Date: 01.04.2022

Reference

References

collaborations

Signature: Prof. Florin Miculescu