

Curriculum Vitae

Name: BITA Bogdan Ionut

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Country: Romania

Birthdate: 01.03.1990

Gender: Male

Additional Informations: *h-index:* 6

Citing articles: 140

Marital Status: Unmarried

October 2014 – November 2018

Ph.D. student in Solid State Physics

Faculty of Physics, University of Bucharest

October 2012 – June 2014

Master student

Section: Photonics Spectroscopy Plasma and Laser

Faculty of Physics, University of Bucharest

October 2009 – June 2012

Bachelor

Physicist

Faculty of Physics, University of Bucharest

University Education

September 15th, 2005 – June 30th, 2009

High school diploma

National Collage “Traian”

ACADEMIC RESPONSIBILITY:

2015-2022 Assistant Prof., University of Bucharest, Faculty of Physics, Electricity, Solid State and Biophysics

Teaching activities:

- Seminars and laboratory activities on "Electronics" for the undergraduate students of the section Physics, Medical Physics, and Technological Physics Faculty of Physics;
- Lectures and laboratory activities on „Virtual Instrumentation” for the undergraduate students of the section: Physics in English.

EXPERTISE:

Computing Skills:

Programing with: LabView, Origin

Research activities:

Researches in the fields:

- Physics of Semiconductors;
- Electrical and photoelectric properties of the organic semiconductor thin films;
- Electron Microscopy (SEM, EDS, EBSD, CDL) – 10 years;
- Material deposition: Magnetron Sputtering, PECVD, Plasma Jet – 8 years.

Reviewer: Applied Surface Science, ISSN: 0169-4332, **Elsevier**
2019

Guest Editor MDPI: 2021-2022

SCIENTIFIC PUBLICATIONS:

ISI Papers

1. Andrei Avram, Vania Covlea, Alexandru Matei, Marian Bazavan, Bogdan Butoi, **Bogdan Bită**, Emil Barna, Alexandru Jipa, **Impact of RF and DC Plasma on Wood Structure**, Romanian Reports in Physics 01/2014; 66(3). **IF 1.14**
2. Andrei Marius Avram, Alina Cristina Bunea, Cosmin Obreja, Marioara Avram, **Bogdan Bită**, Catalin Parvulescu, Marian Popescu, Dan Neculoiu, **Fabrication of Thin Dielectric Membranes for Microwave Applications**, Digest Journal of Nanomaterials and Biostructures 04/2014; 9(2):475 - 481. **IF 1.12**
3. Vasilica Tucureanu, Alina Matei, Iuliana Mihalache, Mihai Danila, Marian Popescu, **Bogdan Bită**, **Synthesis and characterization of YAG:Ce, Gd, and YAG:Ce, Gd/PMMA nanocomposites for optoelectronic applications**, Journal of Materials Science 12/2014; 50(4). DOI:10.1007/s10853-014-8751-9 , **IF 2.31**
4. Andrei C. Popescu, George E. Stan, Liviu Duta, Cristina Nita, Camelia Popescu, Vasile-Adrian Surdu, Marius-Adrian Husanu, **Bogdan Bită**, Rudy Ghisleni, Cameliu Himcinschi, and Valentin Craciun, **The Role of Ambient Gas and Pressure on the Structuring of Hard Diamond-Like Carbon Films Synthesized by Pulsed Laser Deposition**, Materials 2015, 8, 3284-3305; doi:10.3390/ma8063284, Published: 5 June 2015, **IF 1.879**
5. R. Voicu, A. Baracu, R. Gavrilă, C. Obreja, M. Danila, A. Dinescu, **B. Bită**, R. Muller, **Aterial Characterizations For MEMS Vibration Sensors And Biostructures Applications**, Digest Journal of Nanomaterials and Biostructures Vol. 10, No. 3, July - September 2015, p. 1077 – 1085, **IF: 0.945**
6. Matei, A.; Dumitrescu, L.; Cernica, I.; Mihalache, I, Schiopu, V, **Bită B. Study of the influence of capping agents on the structural and optical properties of ZnO nanostructures**, Journal of Optoelectronics and Advanced Materials Volume: 17 Issue: 7-8 Pages: 952-957 Published: JUL-AUG 2015, **IF 0.43**
7. S. Iftimie, M. E. Barbanta-Patrascu, D. Gazdaru, A. Radu, **B. Bită**, D. Staicu, N. Korganci, L. Ion, S. Antohe, **Photovoltaic Structures Based On Biologic/Polymeric Semiconducting Thin Films**, Digest Journal of Nanomaterials and Biostructures Vol. 10, No. 4, October – December 2015, p. 1249 – 1255, **IF: 0.945**
8. D.E. Pascu, A.R. Miron, M. Neagu, A.C. Nechifor, **B.I. Bită**, M.C. Popescu, E. Eftimie Totu, *Fabrication, characterization and modeling of polysulfone composite membranes with enhanced adsorbent capabilities*, published online since March 2016 in **Separation Science and Technology**. doi: 10.1080/01496395.2016.1170038 **IF 1.171**
9. C. Popescu, G. Dorcioman, **B. Bită**, C. Besleaga, I. Zgura, C. Himcinschi, A. C. Popescu, **Fabrication of periodical surface structures by picosecond laser irradiation of carbon thin films: the transformation of a-C:H phase in nano graphite**, Applied Surface Science, Volume: 390 Pages: 236-243 Published: DEC 30 2016, doi:10.1016/j.apsusc.2016.08.029 **IF 3.150**
10. M. Acosta Gentoiiu, R. Betancourt-Riera, S. Vizireanu, I. Burducea, V. Marascu, S. D. Stoica, **B. I. Bită**, G. Dinescu, and R. Riera, **Morphology, Microstructure and Hydrogen Content of Carbon Nanostructures**

11. Vamanu, E; Ene, M; **Bita, B**; Ionescu, C; Craciun, L; Sarbu, I; **In Vitro Human Microbiota Response to Exposure to Silver Nanoparticles Biosynthesized with Mushroom Extract**, "Nutrients", Volume: 10 Issue: 5 Article Number: UNSP 607 Published: MAY 2018, doi:10.3390/nu10050607 **IF 4.196**
12. Popescu, MC; **Bita, B.I**; Tucureanu, V; Vasilache, D; Banu, MA; Avram, AM; Giurescu-Dumitrescu, RA; **Superficial and Inner Examination of a Microwave-Irradiated Dental Acrylic Resin and Its Metal-Polymer Interface** "Microscopy and Microanalysis, Volume: 24 Issue: 1 Pages: 49-59 Published: FEB 2018, doi:10.1017/S1431927618000089 **IF 2.124**
13. **B. Bita**, S. Iftimie, A. Radu, V.A. Antohe, D. Coman, C. Miron, D. Staicu, L. Dan, L. Ion, S. Antohe; **On the electrical and photo-electrical behavior of the photovoltaic cells based on polymeric and chlorophyll-a thin films**; Proceedings of the Romanian Academy, Series A, Volume: 20 Issue: 1 Pages: 51-57 Published: JAN-MAR 2019 **IF 1.75**
14. D.L.Cursaru, N. Giagkas, S. Vizireanu, S.Mihai, D. Matei, **B.Bita**, C.Stancu, A.M.Manta, I.Ramadan, **Improvement Of Antiwear Properties by Coating the Steel Surfaces and by Lubricant Additivation**, Digest Journal of Nanomaterials and Biostructures, Vol. 14, No. 4, October-December 2019, p. 907-915, **IF 0.945**
15. Yehia, S.A; Zarif, M; **Bita, B**; Teodorescu, M; Carpen, L.G; Vizireanu, S; Petrea, N; Dinescu, G; **“Development and optimization of single filament plasma jets for wastewater decontamination”**; PLASMA CHEMISTRY AND PLASMA PROCESSING 40, 1485–1505 (2020) **IF 2.758**
16. **Bita, B**; Vizireanu, S; Stoica, D; Radu, A; Ion, V; Yehia, S; Iftimie, S; Dinescu, G; **“On the structural, morphological and electrical properties of carbon nanowalls obtained by plasma-enhanced chemical vapor deposition”**; JOURNAL OF NANOMATERIALS vol. 2020 Article ID 8814459, 6 pages, 2020 **IF 1.98**
17. Cornel Cobianu, Bogdan-Catalin Serban, Niculae Dumbravescu, Octavian Buiu, Viorel Avramescu, Cristina Pachi, **Bogdan Bita**, Marius Bumbac, Cristina-Mihaela Nicolescu, Cosmin Cobianu, **Organic Ternary Nanohybrids of Single-Walled Carbon Nanohorns for Room Temperature Chemiresistive Ethanol Detection**, Nanomaterials, 2020, 10, 2552t **IF 4.324**
18. Chiulan, I , Panaitescu, DM, Radu, ER, Vizireanu, S , Satulu, V , **Bita, B** , Gabor, RA , Nicolae, CA , Raduly, M , Raditoiu, V, **Influence of TEMPO oxidation on the properties of ethylene glycol methyl ether acrylate grafted cellulose sponges**, CARBOHYDRATE POLYMERS **IF 9.381**
19. Danes, CA , Dumitriu, C , Vizireanu, S, **Bita, B**, Nicola, IM, Dinescu, G , Pirvu, C, **Influence of Carbon Nanowalls on Copper Deposition for Electrostatic Conductive Coatings**, COATINGS, 2021 **IF: 2.881**
20. Porosnicu, I , Butnaru, CM, Tiseanu, I, Stancu, E, Munteanu, CVA, **Bita, BI**, Dului, OG, Sima, F, **Y2O3 Nanoparticles and X-ray Radiation-Induced Effects in Melanoma Cells**, 2021 MOLECULES
21. Carpen, LG, Acsente, T, Satulu, V, Matei, E , Vizireanu, S, **Bita, BI**, Dinescu, G, **Hybrid Nanostructures Obtained by Transport and Condensation of Tungsten Oxide Vapours onto CNW Templates**, NANOMATERIALS, 2021 **IF 5.076**
22. Giagkas, N, Micu, IF, Vizireanu, S , Vasile, N , **Bita, BI**, Satulu, V , Mihai, S, Manta, AM, Cursaru, DL, **Tribological properties of ZrN coatings deposited by magnetron sputtering in reactive and non-reactive mode**, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES, 2021 **IF 0.963**
23. Acsente, T, Istrate, MC , Satulu, V, **Bita, B**, Dinescu, G , **Operation of a magnetron sputtering gas aggregation cluster source in a plasma jet regime for synthesis of core-shell nanoparticles**, JOURNAL OF PHYSICS D-APPLIED PHYSICS, 2021 **IF 3.207**
24. Negut, CC ; Stefan-van Staden, RI ; Badulescu, M ; **Bita, B**, **Disposable stochastic sensors obtained by nanolayer deposition of copper, graphene, and copper-graphene composite on silk for the determination of isocitrate dehydrogenases 1 and 2**, Analytical and Bioanalytical Chemistry, Volume 414, Issue 5, Page1797-1807, Special Issue SI, 2022 **IF 4.157**
25. **Bogdan Bita**, Elena Stancu, Daniela Stroe, Mirabela Dumitrache, Steluta Carmen Ciobanu, Simona Liliana Iconaru, Daniela Predoi, Andreea Groza, **The effects of electron beam irradiation on the morphological and physicochemical properties of chitosan magnesium doped hydroxyapatite composite coatings**, Polymers 2022, 14, 582 **IF 4.329**

26. Irina Negut, **Bogdan Bit***, Andreea Groza, **Polymeric Coatings and Antimicrobial Peptides as Efficient Systems for Treating Implantable Medical Devices Associated-Infections**, Polymers 2022, 14(8), 1611; <https://doi.org/10.3390/polym14081611> **IF 4.329**

Proceedings Papers

1. M.C. Popescu, **B.I. Bit***, M.A. Banu, R.M. Tomescu, **Destructive effects induced by the electron beam in Scanning Electron Microscopy**, ATOM-N 2016 Conference, Constanta, Romania, **accepted for publication** in SPIE Proceedings, 2016
2. Roxana Tomescu, Cristian Kusko, Adrian Dinescu, **Bogdan Bit***, Marian Popescu, **Technological studies for plasmonic metasurfaces**, ATOM-N 2016 Conference, Constanta, Romania, **accepted for publication** in SPIE Proceedings, 2016
3. M.C. Popescu, **B.I. Bit***, A.M. Avram, V. Tucureanu, P. Schiopu, **Morphological Alteration of Microwave Disinfected Acrylic Resins used for Dental Prostheses**, Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies (ATOM-N 2014), Constanta, Romania, 21st to 24th of August, 2014 (**First Place Student Presentation**) Proceedings of SPIE Vol. 9258 (92580I-1), 21st of February 2015 **doi: 10.1117/12.2072210**
4. Matei, A; Tucureanu, V; Popescu, M ; Romanitan, C; **Bit*, B.** Cernica, I, **Synthesis and characterization of various surfactants for stabilized CuO powder**, Book Series: Materials Research Proceedings, 5th International Conference on Powder Metallurgy and Advanced Materials, RoPM&AM 2017

Contributions to International Conferences

01. Avram, A. Bunea, C. Obreja, M. Avram, **B. Bita**, C. Parvulescu, M. Popescu and D. Neculoiu, **Fabrication of Thin Dielectric Membranes for RF-MEMS Applications**, 16th International Conference on Plasma Physics and Applications, Magurele, Romania, 20th to 25th of June 2013 (Poster session)

02. A. Avram, V. Covlea, M. Bazavan, B. Butoi, **B. Bita**, and A. Jipa, **Impact of RF and DC Plasma on Wood Structure**, 16th International Conference on Plasma Physics and Applications, Magurele, Romania, 20th to 25th of June 2013 (Oral presentation)

3. C. NITA, A.C. POPESCU, G.E. STAN, C. POPESCU, L. DUTA, V. CRACIUN, M. HUSANU, **B. Bita**, **OPTIMIZATION OF DEPOSITION CONDITIONS FOR SYNTHESIS OF HARD CARBON THIN FILMS WITH HIGH ADHERENCE AND LOW SURFACE ENERGY**, DIAMOND AND RELATED MATERIALS, ISTAMBUL 2013, 10-TH INTERNATIONAL STUDENT CONFERENCE OF THE BALKAN PHYSICAL UNION (ISCBPU) (POSTER SESSION)

04. George E Stan; Liviu Duta; Cristina Nita; Camelia Popescu; Adrian Surdu; Marius A Husanu, **Bogdan Bita**; Rudy Ghisleni; Cameliu Himcinschi; Valentin Craciun, **Structure and Physical Properties of Hard Diamond-Like Carbon Thin Films Synthesized by Pulsed Laser Deposition in Methane Ambient**, Student Poster, 4th-8th September 2013, Istanbul, 10th International Student Conference of the Balkan Physical Union (ISCBPU) (Poster session)

05. V. Covlea, E. Barna, M. Bazavan, B. Butoi, **B. Bita**, M. Lungu, C. Berlic, A. Avram and Al. Jipa, **Wood Structure Protection by Plasma**, Poster session, 20-24 August 2013, Balaton (Poster session)

6. Bogdan Butoi, Vania Covlea, Mihail Lungu, Andrei Avram, **Bogdan Bita**, Marian Bazavan, Catalin Berlic, Alexandru Jipa, Emil Barna, **Simulation of some Mechanisms in Reflex Plasma Reactor**, 41th EPS Conference on Plasma Physics, Berlin, Germany; 06/2014 (Poster Session)

7. Anca-Ionela DANCIU, Iuliana MIHALACHE, **Bogdan Bita**, Rodica PLUGARU*, **Effect of Li, Cu, and N Doping on the Morphology, Optical and Electrical Properties of ZnO Thin Films Prepared by Sping-Coating Technique**; 14th International Balkan Workshop on Applied Physics, July 2-4, 2014, Constanta, Romania (Oral Presentation)

8. M.C. Popescu, **B.I. Bita**, M.A. Banu, R.M. Tomescu, *Destructive effects induced by the electron beam in Scanning Electron Microscopy*, ATOM-N 2016 Conference, Constanta, Romania, July 2015 (Best Student Paper, Poster session)

09. M.C. Popescu, **B.I. Bita**, A.M. Avram, V. Tucureanu, P. Schiopu, **“SEM Characterization of Artificial Teeth Subjected to Microwave Disinfection”**, 10th International Conference on Physics of Advanced Materials (ICPAM-10), Iasi, Romania, 22nd to 28th of September, 2014 (Poster session)

10. A. Danciu, I. Mihalache, M. Danila, **B. Bita**, R. Plugaru, **The effect of annealing in nitrogen atmosphere on the structure, photoluminescence and electrical properties of Li and Cu doped sol-gel ZnO films**, CAS 2014- 37th Edition of International Semiconductor Conference, 13rd-15th October 2014, Sinaia, Romania, Best Paper Award (Oral Presentation)

11. A. Istrate, M. Danila, **B. Bita**, I. Mihalache, F. Comanescu, R. Plugaru, M. Purica, **Study on the Porosity of Mn and Ga doped ZnO Films Synthesized by SOL-GEL Method** Submitted to symposium L: Towards oxide-based, E-MRS 2015 Fall Meeting (Poster Presentation)

12. B. Butoi, L. Tudor, P. Dinca, **B. Bita**, D. Mladenovic, C. Morarescu, **“Plasma Physics Students’ Club”**; FTEM (A XLIV-a Conferința Națională Fizica și Tehnologiile Educaționale Moderne), 15th-16th May, Iasi, 2015. (CS-05, Abstract Book, Editura Granada 2015), (Oral Presentation)

13. S. Iftimie, M.E. Barbinta-Patrascu, A. Radu, **B. Bita**, N. Vasile, N. Korganci, L. Ion and S. Antohe, **Biologic/polymeric semiconducting thin films based photovoltaic cells**, The 8th International Conference on Advanced Materials: ROCAM 2015 7th-10th July 2015, Bucharest, Romania (Oral Presentation)

14. **Bogdan Bita**, Marian Popescu, Raluca Gavrilă, Nicoleta Vasile, Sorina Iftimie, Doina Gazdaru, Stefan Antohe, "Roughness characterization of chlorophyll in OPV", **Plasmonica 2015, Padova, Italy**, 1st to 3rd of July, 2015, P1-03 pg. 55 (Poster session)

15. S. Iftimie, L. Ion, A. Radu, T.L. Mitran, O. Toma, **B. Bita**, N. Korganci, S. Antohe, **Study of physical properties of ZnSe/CdTe heterojunction based photovoltaic cells**, 9th International Physics Conference of the Balkan Physical Union 2015, 24.08 – 27.08.2015, Istanbul, Turcia (Poster session)

16. D.E. Pascu, A.R. Miron, M.N. Pascu (Neagu), C. Aurelia, **B.I.Bita**, M.C. Popescu, E. Eftimie Totu, **Structural and functional characterization of membrane processes, through specific techniques and mathematical models**, 3rd International Conference on Methods and Materials for Separation Processes, SSTP 2015, Karpacz, Poland, 6th to 10th of September 2015 (Oral Presentation)

17. Oana Tatiana Nedelcu · Roxana Rebigan · Florea Craciunoiu · Andrei Avram · Ramona Corman · **Bogdan Bita**, **Microfabrication of a micro-electro-fluidic system for cell electroporation**, Conference: Micro and Nano Engineering 2015, At The Hague, Netherlands, Volume: 41st, CONFERENCE PAPER · SEPTEMBER 2015 (ORAL PRESENTATION)

18. Sorina IFTIMIE, Adrian RADU, Alina Irina Calugar, **Bogdan BITA**, Lucian ION, Stefan ANTOHE, Daniela DRAGOMAN, **Study of physical properties of Ni: Cu segmented nanowires for sensing devices**, IBAWAP 2016, 7th-9th July, Constanta, Romania (Poster session)

19. Sorina IFTIMIE, Lucian ION, Adrian RADU, Veta GHENESCU, Marius Marin GUGIU, George Alexandru NEMNES, **Bogdan BITA**, Nuri KORGANCI, Ovidiu TOMA, Stefan ANTOHE, **On the Physical Properties of RF-Sputtered ZnSe Thin Films for Photovoltaic Applications**, IBAWAP 2016, 7th-9th July, Constanta, Romania (Oral Presentation)

20. M. Badulescu , A. Anghel , A. M. Vlaicu , C. Surdu-Bob, R. Gavrilă , **B. Bita**, **Film continuity studies of refractory metal nano-layers obtained using an improved set-up of the high voltage anodic plasma**, 10TH INTERNATIONAL CONFERENCE ON PHOTOEXCITED PROCESSES AND APPLICATIONS, AUGUST 29TH – SEPTEMBER 2ND, 2016, BRASOV, ROMANIA (POSTER SESSION)

21. C. Surdu-Bob , A.M. Vlaicu, A. Anghel , M. Badulescu , R. Gavrilă , **B. Bita**, **Inter-diffusion studies in stacks of nano-layers of alternating W and B**, 10TH INTERNATIONAL CONFERENCE ON PHOTOEXCITED PROCESSES AND APPLICATIONS, AUGUST 29TH – SEPTEMBER 2ND, 2016, BRASOV, ROMANIA (POSTER SESSION)

22. Sorina IFTIMIE, Adrian RADU, Alina Irina CALUGAR, **Bogdan BITA**, Lucian ION, Stefan ANTOHE, Daniela DRAGOMAN, **Study of Physical Properties of NI: CU Segmented Nanowires for Sensing Devices**, 11th International Conference On Physics Of Advanced Materials (ICPAM-11), September 8th-14th, 2016, Cluj-Napoca Romania (Poster Session)

23. Sorina IFTIMIE, Adrian RADU, Alina Irina Calugar, **Bogdan BITA**, Lucian ION, Stefan ANTOHE, Daniela DRAGOMAN, **Study of morphological, structural and electrical properties of Ni:Cu segmented nanowires**, 11th International Conference On Physics Of Advanced Materials (ICPAM-11), September 8th-14th, 2016, Cluj-Napoca Romania (Poster Session)

24. Dana Cristea, Paula Obreja, Rebeca Tudor, **Bogdan BITA**, **Solution Processable PbS Quantum Dots/Silicon Multispectral Detectors**, 46th European Solid-State Device Research Conference 42nd European Solid-State

Circuits Conference, 12nd-15th September 2016, ESSDERC/ESSCIRC 2016, in Lausanne, Switzerland (**Oral Presentation**)

25. A. Dumitru, S. Vulpe, A.Radu, A. Csolti, M. Temelie, and **B. Bită**, **Conversion of polyaniline nanostructures obtained by different template free methods to nitrogen-containing carbon nanostructures**, IBWAP 2016, Constanta, Romania (**Poster Session**)

26. A. Dumitru, S. Vulpe, A. Csolti, M. Temelie, A.Radu, and **B. Bită**, **Electrocatalytic behavior of nitrogen-doped carbon nanostructures with different morphologies in alkaline medium**, IBWAP 2016, 7th-9th July, Constanta, Romania (**Poster Session**)

27. A. Dumitru, S. Vulpe, A.Radu, A. Csolti, M. Temelie and **B. Bită** **Effect of synthesis methods of polyaniline-derived nitrogen-doped carbon nanostructures for oxygen reduction reaction in alkaline media**, EMRS fall meeting, 19th-23rd September 2016, Warsaw, Poland (**Poster Session**)

28. A. Dumitru, S. Vulpe, A.Radu, A. Csolti, M. Temelie, and **B. Bită**, **Effect of nitrogen environment on the performance of conducting polymers/CNTs nanocomposites modified anodes for microbial fuel cells (MFCs)**, EU-ISMET 2016 Meeting, 26th-28th September, Rome, Italy (**Poster Session**)

29. A.Dumitru, S. Vulpe, A.Radu, C. Bradu, and **B. Bită**, **Nitrogen-containing carbon nanostructures from conducting polymers precursors as the electrode for microbial fuel cell**, Frontiers in Polymer Science, POLY 2017, 17th-19th May 2017, Seville, Spain (**Poster Session**)

30. S Vulpe.A. Radu, **B. Bită**, and Anca Dumitru, **Carbon foams derived from Polyacrylonitrile-Formaldehyde Resins as a prospective electrode for hybrid supercapacitors**, Frontiers in Polymer Science, POLY 2017, 17-19 May 2017, Seville, Spain (**Poster Session**)

31. A. Olaru, C.Bradu, A. Radu, **B.Bită**, S.Vulpe, S.Avramescu, and A. Dumitru, **Influence of the morphology of polypyrrole and their corresponding carbon nanostructures the removal of copper ions from aqueous solution**, 9th International Conference on Advanced Materials, ROCAM 2017, 10th-14th July 2017, Bucharest, Romania (**Poster Session**)

32. O. Simionescu, Gh. Dinescu, **B. Bită**, M. Bazavan, C. Romanitan; **Thin Oxide Film Deposition by RF Magnetron Sputtering**; International Conference of Physics Students 2018 (**Poster Session**)

33. **B. Bită**, S. Vizireanu, D. Stoica, S.Yehia, A.Radu, S. Iftimie' Gh. Dinescu, **Conduction anisotropy in carbon nanowall layers obtained by a low-pressure plasma jet**, 18th International Conference on Plasma Physics and Applications CPPA 2019, Iasi 2019 (**Poster Session**)

34. S.A. Yehia, M. Zarif, L. G. Carpen, **B. Bită**, S. Vizireanu, G. Dinescu, **Atmospheric Pressure Plasma Jet Submerged in Liquid for Dyes Decomposition**, 18th International Conference on Plasma Physics and Applications CPPA 2019, Iasi 2019 (**First place Poster Session**)

35. M. Zarif, S.A. Yehia, S. Vizireanu, V. Satulu, V. Marascu, **B. Bită**, G. Dinescu, **Atmospheric pressure plasma treatment of surfaces for cleaning and modification**, 18th International Conference on Plasma Physics and Applications CPPA 2019, Iasi 2019 (**Poster Session**)

36. Lavinia Gabriela Carpen, Tomy Acsente, **Bogdan Ionuț Bită**, Alina Andreea Ardeleanu, Valentina Mărăscu, Veronica Sătulu, Gheorghe Dinescu, **Modification of tungsten surfaces by thermal oxidation and subsequent reduction in H₂ plasma**, E-MRS 2019, (**Poster session**)

37. Alexandra M.I. Trefilov, Athanasios Tiliakos, Adriana Balan, **Bogdan Bită**, **Sorin Vizireanu**, Gheorghe Dinescu, **Plasma-grown Carbon NanoWalls as Microporous Layer for PEM Fuel Cell Applications**, E-MRS 2019, (**Poster session**)

38. **B. Bită**, S. Vizireanu, D. Stoica, S.Yehia, A.Radu, S. Iftimie' Gh. Dinescu, **Conduction anisotropy in carbon nanowall layers obtained by a low-pressure plasma jet**, CREMS 2019, Proceedings International of the 3rd

Conference Paper

1. Vasilache, D; Avram, A; Stefanescu, A; Boldeiu, G; Iordanescu, S; **Bita, B, 0-level encapsulation using thin films deposition for RF MEMS – demonstration on RF MEMS switch structures**, Book Series: Asia Pacific Microwave Conference-Proceedings Pages: 330-332 Published: 2018

Chapter Book

1. V Covlea, M Calin, A Jipa, B Butoi, **B Bita**, C Berlic, E Barna, **The Master in physics student profile at the University of Bucharest, 01/2014**; Proceedings of INTED 2014, ISBN: 978-84-616-8412-0
2. T. Acsente, L. G. Carpen, E. Matei, **B. Bita**, R. Negrea, E. Bernard, C. Grisolia, G. Dinescu' **Tungsten nanoparticles produced by magnetron sputtering gas aggregation: process characterization and particle properties**, IntechOpen, "Progress in Fine Particle Plasmas" edited by Dr. Tetsu Mieno, DOI: 10.5772/60692, ISBN: 978-953-51-2280-7, eBook (PDF) ISBN: 978-953-51-5067-1
3. **Bogdan I. Bita**, Alexandra M.I. Trefilov, Stefan-Marian Iordache, Sorina Iftimie, Sasa Yehia, Sorin Vizireanu, Gheorghe Dinescu, **Electrical and morphological characterization of carbon nanowall layers obtained by a low-pressure plasma jet**, 2020, AGIR Publishing House, ISBN: 978-973-720-822-4
4. Alexandra M.I. TREFILOV , **Bogdan I. BIȚĂ** , Lavinia CARPEN , Ana-Maria IORDACHE, Sorin VIZIREANU, Bogdan A. SAVA, Gheorghe DINESCU, **Structural modification pattern of plasma deposited graphene nanowall layers induced by nitrogen doping**, 2020, AGIR Publishing House, ISBN: 978-973-720-822-4

National Conference

1. Bogdan Butoi, **Bogdan Bita**, Damir Mladenovic, Razvan Pirloaga, Alexandra Palici and Mihail Lungu, **Plasma Physics Students Club in Faculty of Physics, UNIVERSITY OF BUCHAREST**, Conferinta Iasi 2014; Fizica si Tehnologii Educationale moderne, Iasi, 16th-17th May.2014 (Oral presentation)
02. M. Banu, M. Simion, M. Kusko, M. C. Popescu, **B. Bita**, "Nanofire de siliciu utilizate ca substrat pentru amplificarea semnalului de hibridizare in tehnologia microarray", A 14-a editie a Seminarului National de Nanostiinta si Nanotehnologie (SNN 2015), **Biblioteca Academiei Romane, Bucuresti, Romania, 26th March 2015**
3. N. Vasile, **B.Bita**, R. Gavrilă, A.Dinescu, S. Antohe; **Applications and properties of chromium in precision optics**; 2015 Annual Scientific Conference Faculty of Physics University of Bucharest, **Bucharest, Romania, Friday, June 19th, 2015**. (oral presentation, Abstract Book, pg. 223).
4. M.I. Zai, C.A. Constantin, A. Calin, A.M. Avram, M.C. Popescu, **B.I. Bita**, **Characterization of plasma-treated wood surfaces by electron microscopy (SEM)**, Fizica si Tehnologiile Educationale Moderne (FTEM 2016), Iasi, Romania, 13th to 14th of May, 2016 (poster session)
5. **B.I. BITA**, S. ANTOHE, **Celule fotovoltaice bazate pe filme subtiri semiconductoare biologice si polimerice**, Pentagonul Facultatilor de Fizica, Faculty of Physics University of Bucharest, **24-29 July 2016 (Oral Presentation, Third Prize)**
6. **Bogdan BITA**, Adrian DINESCU, Adrian RADU, Sorina IFTIMIE, Lucian ION, Stefan ANTOHE, **Characterization of thin films under the scanning electron microscope (SEM)**, **Bucharest University Faculty of Physics 2017 Meeting, Solid State Physics, and Materials Science**
7. **Bogdan BITA**, Bianca ȚANCU, Vasilica ȚUCUREANU, Andrei AVRAM, Iulia ZAI, Marian POPESCU, Stefan ANTOHE, Adrian DINESCU, **SEM Characterization of Graphene Grown on Copper Substrate**, **Bucharest University Faculty of Physics 2016 Meeting, Solid State Physics, and Materials Science** (Oral Presentation)
8. **B. Bita**, V. Covlea, A. Jipa, A. Avram, FL. Craciunoi, B. Butoi, M. Bazavan, E. Barna, **Plasma applications in microtechnology**, **Bucharest University Faculty of Physics 2014 Meeting, Optics, Spectroscopy, Plasma, and Lasers** (Oral Presentation)
9. A. Avram, V. Covlea, M. Bazavan, B. Butoi, **B. Bita**, A. Jipa, E. S. Barna, **Characterization of the impact of RF and DC plasma on wood structure**, **Bucharest University Faculty of Physics 2013 Meeting, Optics, Spectroscopy, Plasma and Lasers** (Oral Presentation)
10. M. Bazavan, V. Covlea, B. Butoi, **B. Bita**, A. Avram, A. Jipa, C. Porosnicu, M. Lungu, I. Gruia, M. D. Ionita, **Rotation Temperature Determination in Triple Cathode Discharge (Hollow Cathode)**, **Bucharest University Faculty of Physics 2013 Meeting, Optics, Spectroscopy, Plasma and Lasers** (Oral Presentation)
11. **Bogdan BITA**, Sasa YEHIA, Catalina CIRNECI, Maria Elena ZARIF, Sorin VIZIREANU, Gheorghe DINESCU, **SEM characterization techniques of carbon nanostructures on different substrates**, **Bucharest University Faculty of Physics 2019 Meeting, Solid State Physics and Materials Science, 21-22th June 2019** (Oral Presentation)

International Prize

1. M.C. Popescu, **B.I. Bita** A.M. Avram, V. Tucureanu, P. Schiopu, Morphological Alteration of Microwave Disinfected Acrylic Resins used for Dental Prostheses, Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies (ATOM-N 2014), Constanta, Romania, 21st to 24th of August, 2014, **First Place Student Presentation**.
2. A.-I. Danciu, I. Mihalache, M. Danila, **B. Bita**, R. Plugaru, Towards oxide-based electronics: growth and applications of oxide thin films and heterostructures II, The effect of annealing in nitrogen atmosphere on the structure, photoluminescence and electrical properties of Li and Cu doped sol-gel ZnO films, 38th IEEE International Semiconductor Conference, CAS 2015, Sinaia, Romania Nanoscience and materials Section, IMT Bucharest, Romania, **"Best paper award"**.
3. A. Istrate, M. Danila, **B. Bita**, I. Mihalache, F. Comanescu, R. Plugaru, M. Purica, E-MRS Fall Meeting of the European Materials Research Society, 15th-18th September 2015, Warsaw, Poland, **Best Poster Award Symposium L**.
4. Rodica Voicu, Angela Baracu, Raluca Gavrila, Cosmin Obreja, Mihai Danila, **Bogdan Bita**, Raluca Muller, Material layers investigations for MEMS vibration sensors and biostructures applications, Scientific Conference of Doctoral Schools from "Dunérea de Jos" University of Galati Third Edition - Galati, 4th-5th June 2015, **Second Prize Award for poster presentation**.
5. S.A. Yehia, M. Zarif, L. G. Carpen, **B. Bita**, S. Vizireanu, G. Dinescu, Atmospheric Pressure Plasma Jet Submerged In Liquid For Dyes Decomposition, 18th International Conference On Plasma Physics And Applications CPPA 2019, Iasi 2019 (**First place Poster Session**)
6. M. Acosta Gentoii, R. Betancourt-Riera, S. Vizireanu, I. Burducea, V. Marascu, S. D. Stoica, **B. I. Bita**, G. Dinescu, and R. Riera, **Microstructure and Hydrogen Content of Carbon Nanostructures Obtained by PECVD at Various Temperatures** Morphology, Microstructure and Hydrogen Content of Carbon Nanostructures Obtained by PECVD at Various Temperatures, CREMS 2019, **"Best SEM Images from article"**
7. A.M.I. Trefilov, A.E. Balan, L. Boroica, B.A. Sava, **B. Bita**, S. Vizireanu, G. Dinescu, Plasma functionalized carbon nanowalls for PEM fuel cell applications, **2nd International Conference on Emerging Technologies in Materials Engineering – EmergeMAT**, Poster: Plasma functionalized carbon nanowalls for PEM fuel cell applications, **Second Prize Award**

National Prize

1. **B.I. Bita**, S. ANTOHE, *Celule fotovoltaice bazate pe filme subtiri semiconductoare biologice si polimerice*, Pentagonul Facultatilor de Fizica, Faculty of Physics University of Bucharest, 24th-29th July 2016 (**Third Prize**)

Seminary

- 1. National Seminar for Nanoscience and Nanotechnology”, organized by Romanian Academy Library, Bucharest, Romania, 16th of May, 2013**
- 2. ”Nanotechnology for Electronics”, organized by University „Politehnica” of Bucharest and IMT Bucharest, Bucharest, Romania, 7th - 8th of October, 2013**
- 3. Mass Spectrometry and Electron Microscopy News, organized by Viola - Shimadzu Romania, Bucharest, Romania, 8th of April, 2014**
- 04. ZEISS Innovation Tour 2014, Brasov, Romania, 27th of May, 2014**
- 5. 3D Optical Surface Metrology Workshop, presentation of confocal microscope coupled with interferometer Leica DCM8, Bucharest, Romania, 31st of October, 2014**
- 6. The new LSM 8 Family, Fast linear scanning confocal with Airyscan, by Carl Zeiss Instruments SRL // June 18th, 2015, Bucharest**
- 7. Workflow solutions for scanning electron microscopy - From sample preparation to analytical analysis, organized by Carl Zeiss Instruments SRL, Domenii Piazza Hotel, Bucharest, Romania, 6th of April, 2016**
- 8. Latest Advances in Electron Microscopy, Second Edition -2016 (2nd FEI & Ronexprim workshop), 19th of October 2016**
- 9. ZEISS On Your Campus Workshop in Bucharest, 3D Light & Electron Microscopy for Life Science Applications, organized by Carl Zeiss Instruments SRL, Domenii Piazza Hotel, Bucharest, Romania, 23rd of May, 2019**

Projects

Nr.Crt	Cod comp	An compe	Competiti	Cod proiect	Titlu proie	Titlu proie	Acronim	Rezumat	Coordona	Parteneri	Prenume c	Nume dire	Website p	Data ince	Data înche	Durată (lur
1	ERANET	2015	P 3 - SP 3.2	ERANET-M	Mentenan	Intelligent	iPREMAS	IPREMAS	INSTITUTU	Partener S	Andreea Li	Groza		2022-02-1	2024-08-1	
2	PED2019	2019	P 2 - SP 2.1	PN-III-P2-2	Suprafete	Nanostruc	NANOCLE	În cadrul p	INSTITUTU		Antoni	Moldovan	https://tor	2020-11-1	2022-11-0	24
3	PD2019	2019	P 1 - SP 1.1	PN-III-P1-1	Dezvoltare	Developm	Graph-SEN	Grafena ve	INSTITUTU		Bogdan	Bit	https://5ft	2020-09-0	2022-08-3	24
4	PED2019	2019	P 2 - SP 2.1	PN-III-P2-2	METODA C	COLD PLAS	PlasmaDer	În ciuda pr	UNIVERSIT	Partener (R	Alina Maria	Holban	http://alin	2020-08-1	2022-08-1	24
5	PCCDI2017	2017	P 1 - SP 1.2	PN-III-P1-1	Platforma	Multiagent	MultiMont	Proiectul N	INSTITUTU	Partener 1	Mihaela	FILIPESCU	https://mu	2018-03-0	2021-09-3	27
6	PCCDI2017	2017	P 1 - SP 1.2	PN-III-P1-1	Materiale	Nanostruc	NANOCAR	Propunere	INSTITUTU	Partener 1	Buiu	Octavian	http://ww	2018-03-3	2021-07-1	27
7	PCCDI2017	2017	P 1 - SP 1.2	PN-III-P1-1	Paradigme	Technolog	VARDIMTE	Ultimele d	INSTITUTU	Partener 1	Cristian Mi	Teodoresc	http://infin	2018-03-0	2021-04-3	27
8	PCCDI2017	2017	P 1 - SP 1.2	PN-III-P1-1	Nanotehn	Innovative	NAPOLI19	Proiectul is	Institutul N	Partener 1	ANDREI	SARBU	http://icec	2018-03-1	2021-04-3	27
9	ERANET	2015	P 3 - SP 3.2	M-ERA.NE	Filme oxid	High photo	PhotoNan	Proiectul p	INSTITUTU	Partener (R	Magdalena	Ciurea	http://ww	2016-01-0	2018-12-2	
10	PTE2016	2016	P 2 - SP 2.1	PN-III-P2-2	Transfer te	Technolog	TSCEH	Holografia	OPTOELEC	Partener (R	Brindus	Comanesc	http://opt	2016-10-0	2018-09-3	24
11	PTE2016	2016	P 2 - SP 2.1	PN-III-P2-2	Biochip Mi	Portable M	BIOLIMF	În cadrul a	DDS DIAGN	Partener (R	Mihailescu	Carmen Mi	https://dds	2016-10-0	2018-09-2	24
12	PED2016	2016	P 2 - SP 2.1	PN-III-P2-2	Graphena	Graphene	INTEGRAP	In prezenta	INSTITUTU	Partener (R	Marius And	Avram	http://ww	2017-01-0	2018-07-0	18
13	PED2016	2016	P 2 - SP 2.1	PN-III-P2-2	Tehnologie	Technolog	TEMPT-Sys	Proiectul a	INSTITUTU		Dana	Cristea	http://ww	2017-01-0	2018-07-0	18
14	ERANET	2015	P 3 - SP 3.2	ERA-MANU	Micropens	Microgripp	Robogrip	Scopul pri	INSTITUTU	Partener (R	Rodica Cris	Voicu	http://ww	2016-01-1	2017-12-3	
15	RUTE-2014	2014	Projects fo	PN-II-RU-1	Nano-struc	Multilayer	XNano	Prezentul g	INSTITUTU		Carmen C.	Surdu-Bob	http://ww	2015-10-0	2017-11-3	24
16	RUTE-2014	2014	Projects fo	PN-II-RU-1	Noi compu	Novel III-N	N-BiCell	Celulele so	INSTITUTU		Emil Mihai	Pavelescu	http://ww	2015-10-0	2017-11-3	24
17	RUTE-2014	2014	Projects fo	PN-II-RU-1	Celulele m	Microbial-	MEC-NC	Celulele m	UNIVERSIT		Aurelia An	Dumitru	https://sit	2015-10-0	2017-11-3	24
18	RUTE-2014	2014	Projects fo	PN-II-RU-1	Sistem de	Wafer leve	WALE	Proiectul is	INSTITUTU		Dan	Vasilache	http://ww	2015-10-0	2017-11-3	24
19	PCCA-2013	2013	Joint Appli	PN-II-PT-P	Cercetari a	Advanced	PESTI - SEN	Poluarea c	INSTITUTU	Partener (R	Paulina	Vlazan	http://pest	2014-07-0	2017-09-3	26
20	PCCA-2013	2013	Joint Appli	PN-II-PT-P	Tehnologie	Innovative	INNOTECH	In aceasta	INSTITUTU	Partener (R	Rodica	Ghita	http://ww	2014-07-0	2017-09-3	25
21	PCCA-2013	2013	Joint Appli	PN-II-PT-P	Dezvoltare	Developm	NANOMEL	Materialel	INSTITUTU	Partener (R	Adrian And	Adam	http://ww	2014-07-0	2017-09-3	24
22	PCCA-2013	2013	Joint Appli	PN-II-PT-P	Sistem mic	Micro-elec	MEFSYS	Obiectivul	INSTITUTU	Partener (R	Oana Tatia	Nedelcu	http://ww	2014-07-0	2017-09-3	25

