

Papers list

1. **B. Tincu**, I. Demetrescu, A. Avram, V. Tucureanu, A. Matei, O. Tutunaru, T. Burinaru, F. Comanescu, C. Voitincu, M. Avram, „Performance of single layer graphene obtain by chemical vapor deposition on gold electrodes”, *Diamond & Related Materials* 98 (2019) 107510, ISSN 0925-9635, WOS:000488305000028, **IF: 3.31**;
2. **B. Tincu**, M. Avram, A. Avram, O. Tutunaru, V. Tucureanu, A. Matei, T. Burinaru, F. Comanescu, I. Demetrescu, „Progress and control in development of single layer graphene membranes”, *Vacuum* 175 (2020) 109269, **IF: 3.62**;
3. Tiberiu A. Burinaru, Marioara Avram, Andrei Avram, Cătălin Mărculescu, **Bianca Țîncu**, Vasilica Țucureanu, Alina Matei, Manuela Militaru, „Detection of circulating tumor cells using microfluidics”, *ACS Combinatorial Science* (2018), **IF: 3.78**;
4. **B. Țîncu**, A. Avram, V. Țucureanu, A. Matei, C. Mărculescu, T. Burinaru, F. Comănescu, R. Gavrilă, M. Avram, „Study of the CVD graphene transferred from copper to gold substrate”, *UPB Scientific Bulletin*, 2019, Series B: Chemistry and Materials Science 81(3):29-38.
5. **B. Tincu**, M. Avram, V. Tucureanu, C. Mihailescu, O. Tutunaru, A. Avram, E. Anghel, “Single Layer Graphene and Vertical Graphene as a Promising Candidate for Electrochemical Biosensors”, *Rev. Chim.*, 71 (5), 2020, 24-29.

Book Chapter

1. **B. Tincu**, A. Avram, F. Comanescu, V. Tucureanu, A. Dinescu, „CVD Growth of single layer graphene”, in *Nanotechnologies and Nanomaterials for Various Applications*, editors: M. Zaharescu, M. Enachescu, D. Dascalu, Editura Academiei Romane, Bucuresti, 2018, ISBN 978-973-27-2954-0.

Patents

1. CBI Nr.A/00486/18.07.2017 - „Procedeu chimic de transfer a grafenei de pe un substrat pe altul”, autori: Țucureanu Vasilica, Matei Alina, **Țîncu Bianca Cătălina**, Avram Marius Andrei, Mărculescu Cătălin Valentin, Burinaru Tiberiu Alecu, Avram Marioara, publicata in *Buletinul Oficial de Proprietate Intelectuala*, sectiunea Brevete de Inventie, RO-BOPI 1/ian.2019, pag. 21, 133042 A2 (51)C01B 32/182(2017.01); B05D 5/12
2. CBI Nr. A/100494/iun.2018: Avram Marius Andrei, Avram Marioara, **Țîncu Bianca Cătălina**, Voițincu Corneliu, Țucureanu Vasilica, Matei Alina, Burinaru Tiberiu Alecu, Mărculescu Cătălin Valentin, „Procedeu de realizare a senzorului de presiune bazat pe emisie în câmp”.

Proceeding papers and other papers

1. **B. Tincu**, M. Avram, C. Pachi, E. Chiriac, C. Voitincu, A.C. Costache, Maria-Roxana Marinescu, “Microfluidic device based on graphene”, *CAS 2020 PROCEEDINGS*, ISBN: 978-1-7281-1072-1.
2. **B. Țîncu**, A. Avram, M. Avram, V. Țucureanu, A. Matei, C. Mărculescu, T.A. Burinaru, F. Comănescu, I. Mihalache, M.C. Popescu, and I. Demetrescu "Spectroscopic investigation of CVD graphene", *Proc. SPIE 10977, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies IX*, 109770C (2018), doi: 10.1117/12.2324261, WOS: 000452925200006.

3. **B. Țîncu**, A. Avram, M. Avram, V. Țucureanu, A. Matei, C. Mărculescu, T. Burinaru, F. Comanescu, M.C. Popescu, M. Avram “Graphene post-processing”, acceptata pentru publicare, IOP Conference Series: Materials Science and Engineering (MSE) (2018), IOP Conf. Ser.: Mater. Sci. Eng. 485 012027, doi: 10.1088/1757-899X/485/1/012027.
4. **B. Țîncu**, A. Avram, M. Avram, V. Țucureanu, A. Matei, C. Mărculescu, T. Burinaru, F. Comănescu, I. Mihalache, M.C. Popescu, and I. Demetrescu, „Investigation of graphene on quartz substrate”, AIP Conference Proceedings 2071, 040007 (2019), doi: 10.1063/1.5090074, WOS: 000452925200006;
5. T.A. Burinaru, M. Avram, A. Avram, C.Mărculescu, **B. Țîncu**, V. Țucureanu, A. Matei, R. Marinescu, „Microfluidic device for circulating tumor cell quantification and capture”, AIP Conference Proceedings 2071, 040006 (2019); <https://doi.org/10.1063/1.5090073> (2018).
6. Burinaru Tiberiu Alecu, Avram Marioara, Țucureanu Vasilica, Avram Andrei, **Țîncu Bianca**, Mărculescu Cătălin, Matei Alina, Marinescu Roxana, Volmer Marius, „Antibody functionalized magnetic nanoparticles for circulating tumor cells detection and capture using magnetophoresis”, IOP Conf. Ser.: Mater. Sci. Eng. 485 012005 (2018), <https://doi.org/10.1088/1757-899X/485/1/012005>.
7. Gabriel GĂJĂILĂ, Iuliana GĂJĂILĂ, Bogdan TASBAC, Andrei AVRAM, **Bianca ȚÎNCU**, Tiberiu BURINARU, „Antibacterial activity of monolayer graphene film to standardised staphylococcus aureus strains”, Bulletin of the University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Veterinary Medicine, Original Research Article, VET-2017-0030.

Scientific events attended

National Conferences

1. **B. Tincu**, M. Avram, V. Tucureanu, C. Pachiu, O. Tutunaru, E. Chiriac, I. Demetrescu, “Noi investigații ale grafenei monostrat: sinteză, funcționalizare și integrare în platforme microfluidice”, Aplicații Ale Chimiei În Nanostiinte Si Ingineria Biomaterialelor”, Conferinta Stiintifica- AOSR- 17 Iulie 2020.
2. **Cătălina Bianca Țîncu**, Ioana Demetrescu, Mariana Prodana, Andrei Marius Avram, “Grafena Single Layer- CVD”, Sesiunea de Comunicări Științifice Studențești 2017, SECȚIUNEA 14-01, Inginerie Medicală, BIOMATERIALE ȘI DISPOZITIVEMEDICALE, Premiul 2.
3. Andrei Avram, **Bianca Țîncu**, Florin Comănescu, Vasilica Țucureanu, Adrian Dinescu, “Monostraturi de grafenă crescute prin metoda CVD”, INCD pentru Microtehnologie – IMT Bucuresti, A 16-a editie a SEMINARULUI NATIONAL DE NANOSTIINTASINANOTEHNOLOGIE 6 iunie 2017, Amfiteatrul "I.H. Radulescu", Biblioteca Academiei Romane;

International Conferences

1. **B. Tincu**, M. Avram, C. Pachiu, E. Chiriac, C. Voitincu, A.C. Costache, Maria-Roxana Marinescu, “Microfluidic device based on graphene”, 43rd International Semiconductor Conference CAS 2020- Poster.
2. **Bianca Țîncu**, Andrei Avram, Marioara Avram, Vasilica Țucureanu,, Alina Matei, Cătălin Mărculescu, Tiberiu Burinaru, Florin Comănescu, Oana Tutunaru, Ioana Demetrescu, THE STRUCTURAL MODIFICATION OF SINGLE LAYER GRAPHENE BY OXYGEN

PLASMATREATMENT, 2nd International Conference on Emerging Technologies in Materials Engineering EmergeMAT, 6-8 November 2019, **Premiul 1.**

3. **B. Tincu**, M. Avram, A. Avram, V. Tucureanu, A. Matei, T. Burinaru, O. Tutunaru, I. Demetrescu, “Influence of polymethyl-methacrylate in graphene functionalization” 21st Romanian International Conference on Chemistry and Chemical Engineering (RICCCE21), S6(New Materials and Nanomaterials) – P089, [2019]

4. **B. Tincu**, A. Avram, V. Tucureanu, A. Matei, C. Mărculescu, T. Burinaru, F. Comanescu, M. Avram, „GRAPHENE BASED ON SEPARATION MEMBRANE”, BRAMAT 2019, 11TH INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE & ENGINEERING Transilvania University of Brasov – Romania.

5. **Bianca Tincu**, Andrei Avram, Marioara Avram, Vasilica Tucureanu, Alina Matei, Catalin Marculescu, Tiberiu Burinaru, “Spectroscopic investigation of CVD graphene”, ATOM-N 2018, Session Biomedical optoelectronics, Poster PS2-22,OMN100-52, [2018]- **Excellent Paper Award.**

6. **Bianca Tincu**, Andrei Avram, Marioara Avram, Vasilica Tucureanu, Alina Matei, Cătălin Mărculescu, Tiberiu Burinaru, “Graphene post-processing”, 8th Conference On Material Science & Engineering (UgalMat 2018), Book of Abstract, p. 66, Section I: Advanced Materials And Technologies (TMA2018) Poster Session P55 [12 oct 2018].

7. **Bianca Tincu**, Andrei Avram, Marioara Avram, Vasilica Tucureanu, Alina Matei, Cătălin Mărculescu, Tiberiu Burinaru, Florin Comănescu, Marian Popescu, Ioana Demetrescu, „Investigation of graphene on gold flowers”, 1st International Conference on Emerging Technologies in Materials Engineering EmergeMAT and 4th International Workshop on Materials under Extreme Conditions SUPERMAT, Additive manufacturing of metallic and composite materials, Book of Abstracts, No1/2018, p. 72 [nov.2018].

8. **Bianca Tincu**, Andrei Avram, Marioara Avram, Vasilica Tucureanu, Alina Matei, Cătălin Mărculescu, Tiberiu Burinaru, „Investigation of graphene on quartz substrate” , TIM 2018, ID No. 28, AI-P04 [mai 2018].

9. **B. Tincu**, A. Avram, V. Tucureanu, A. Matei, C. Mărculescu, T. Burinaru, B. Bitza, M. Avram, „Importance of post-processing for CVD graphene” BRAMAT 2017, Surface Engineering , Book of Abstracts, IV.PO.12, p.173, Brasov, Romania [2017];

10. **Bianca Tincu**, Andrei Avram, Tiberiu Burinaru, Vasilica Tucureanu, Marioara Avram, Cătălin Mărculescu, Iuliana Gâjâilă, Gabriel Gâjâilă, „CVD Graphene Growth For Antibacterial Study”, The 16th International Symposium Prospects For The 3rd Millennium Agriculture, Section 7: Biotechnologies, Cluj-Napoca, Romania, 28-30 septembrie 2017 — Prezentare Orală;

