

LISTĂ DE LUCRĂRI

Candidat: Ana Violeta FILIP
Post de ASISTENT UNIVERSITAR Poziția 45
DEPARTAMENTUL DE FIZICĂ

Cele mai relevante 10 lucrări (Ris):

1. **Ris.16.** Eftimie, M., **Filip, A.V.***, Danescu, C.B., Nitescu Andrei, Sava, B.A., *Obtaining and conductive properties of a vanadate-borate-phosphate glass*, Scientific Reports (Nature) 13 (2023) 16054, eISSN 2045-2322, WOS:001116558400091, MEDLINE:37749211, <https://doi.org/10.1038/s41598-023-43302-8> IF 2023 = 3,8 Q1; AIS 2023 = 1,061
2. **Ris.1.** Viorica Musat, **Ana Filip**, Nicolae Tigau, Rodica Dinica, Elena Herbei, Cosmin Romanitan, Iuliana Mihalache, Munizer Purica, *1D nanostructured ZnO layers by microwave – assisted hydrothermal synthesis*, Revista de Chimie 69 (10), 2018, 2788-2793, ISSN: 0034-7752, WOS: 000451925300037, <https://doi.org/10.37358/RC.18.10.6625>, IF 2018 = 1,605 Q3; AIS 2018 = 0,052;
3. **Ris. 5.** Mihail Elisa, Raluca Constantina Stefan, Ileana Cristina Vasiliu, Stefan Marian Iordache, Ana-Maria Iordache, Bogdan Alexandru Sava*, Lucica Boroica, Marius Catalin Dinca, **Ana Violeta Filip**, Aurelian Catalin Galca, Cristina Barth, Nicu Iacob, Madalin Ion Rusu, Mihai Eftimie, Victor Kuncser, *A new zinc phosphate-tellurite glass for magneto-optical applications*, Nanomaterials, 10(1875), 2020, 1-19, doi:10.3390/nano10091875, e-ISSN 2079-4991, WOS:000579935000001, <https://www.mdpi.com/2079-4991/10/9/1875>, IF 2020 = 5,076 Q1; AIS 2020 = 0,756;
4. **Ris. 15.** Ileana Cristina Vasiliu, **Ana Violeta Filip***, Irinela Chilibon*, Mihail Elisa, Cristina Barth, Victor Kuncser, Aurel Leca, Lucica Boroica, Bogdan Alexandru Sava, Roxana Trusca, Mihai Eftimie and Adrian Nicoara, *Effect of P₂O₅ Content on Luminescence of Reduced Graphene-Oxide-Doped ZnO–P₂O₅ Nano-Structured Films Pre-pared via the Sol–Gel Method*, Materials 16 (2023) 6156. eISSN 1996-1944, WOS:00107363020000, <https://doi.org/10.3390/ma16186156>, IF 2023 = 3,1 Q3; AIS 2023 = 0,508
5. **Ris.14.** **Ana Violeta Filip**, Alexandra Maria Isabel Trefilov, Lucica Boroica, Marius Catalin Dinca, Mihail Elisa, Ileana Cristina Vasiliu, Nicolae Tigau, Simona Brajnicov, Marius Dumitru, Catalin Luculescu, Oana Gherasim (Fufa), Bogdan Alexandru Sava, *Graphene oxide- boro-phosphate glass nano-composite thin films synthesized by sol-gel spin coating method*, Journal of Non-Crystalline Solids, 613 (1 August 2023) 122372, e-ISSN: 1873-4812. WOS:001008739600001, <https://doi.org/10.1016/j.jnoncrysol.2023.122372>, IF 2023 = 3,2 Q1; AIS 2023 = 0,478
6. **Ris.7.** Elisa, S.-M. Iordache*, A.-M. Iordache, I. C. Vasiliu, C. E. A. Grigorescu, B. A. Sava, L. Boroica, **A. V. Filip**, M. C. Dinca, C. Barth, N. De Acha, C. Elosua Aguado, *Peculiarities of the structural and optical properties of rare-earth-doped phosphate glasses for temperature sensing applications*, Journal of Non-Crystalline Solids 556 (2021) 120569, e-ISSN: 1873-4812, WOS:000619740700006, <https://doi.org/10.1016/j.jnoncrysol.2020.120569>, IF 2021 = 4,458 Q1; AIS 2021 = 0,508;
7. **Ris.8.** M.C. Dinca, B.A. Sava*, A.C. Galca, V. Kuncser, N. Iacob, G.E. Stan, L. Boroica, **A.V. Filip**, M. Elisa, *Magneto-optical properties of borophosphate glass doped with Tb³⁺ and Dy³⁺*, Journal of Non-Crystalline Solids, 568 (2021) 120967, ISSN: 0022-3093, e-ISSN: 1873-4812, WOS:000679100300002, <https://doi.org/10.1016/j.jnoncrysol.2021.120967>, IF 2021 = 4,458 Q1; AIS 2021 = 0,508;
8. **Ris.2.** **Ana Filip**, Viorica Mușat, Nicolae Tigau, Silviu Polosan, Ana Pimentel, Sofia Ferreira, Daniela Gomes, Tomas Calmeiro, Rodrigo Martins, Elvira Fortunato, *ZnO nanostructures grown on ITO coated glass substrate by microwave-assisted hydrothermal method*, Optik 208 (2020) 164372, ISSN 0030-4026, WOS:000535717800022, DOI: 10.1016/j.ijleo.2020.164372, IF 2020 = 2,443 Q2; AIS 2020 = 0,265;
9. **Ris.13.** **Ana Violeta Filip**, Bogdan Alexandru Sava*, Rares Victor Medianu, Lucica Boroica, Marius Catalin Dinca, Rovena Pascu, Nicolae Tigau, Andreea Andrei, Antoniu Moldovan, Marius Dumitru, Mihai Oane, Mihai Eftimie, *Ultrathin Films of Silver by Magnetron Sputtering*, Inorganics 10 (2022) 235. eISSN: 2304-6740, WOS:000902667300001; <https://doi.org/10.3390/inorganics10120235>, IF 2022 = 2,9 Q2; AIS 2022 = 0,426;
10. **Ris.6.** Bogdan Alexandru Sava, **Ana Filip***, Lucica Boroica, Mihai Eftimie, Marius Catalin Dinca, Andrei Soroaia, Alexandra Maria Isabel Trefilov, Mihaela Filipescu, Simona Brajnocov, Antoniu Moldovan, Ana-Maria Iordache, Mihai Elisa, *Dy³⁺ and Tb³⁺ co-doped boro-phosphate sol-gel vitreous thin films*, Journal of Sol-Gel

Science and Technology (Springer), 97, 2021, 39-47, <https://doi.org/10.1007/s10971-020-05427-4>, WOS:000585687700002, e-ISSN: 1573-4846; IF 2021 = 2,606 Q1; AIS 2021 = 0,297;

b) I. Teză de doctorat (T):

T.1. *Nanostructuri oxidice și hibride obținute prin metode chimice din soluție pentru aplicații electronice și optoelectronice*, Universitatea „Dunărea de Jos” din Galați, 2020, 158 pagini

c) II. Cărți și capitole în cărți:

Cb.1. Bogdan Alexandru Sava, Lucica Boroica, Ileana Cristina Vasiliu, Mihail Elisa, Alexandra Trefilov, **Ana Violeta Filip***, Andreea Matei, Catalin Marius Dinca, Oana Gherasim (Fufa), Mihai Eftimie, *Graphene Oxide—Glass Nanocomposite Obtained by Sintering and Melting*, Springer Proceedings in Energy (The 6th Conference for Sustainable Energy, CSE 22-24 octombrie 2020, Brasov), Solar Energy Conversion in Communities, september 2020, pp 423-433, **Chapter 29**, eISBN 978-3-030-55757-7, https://doi.org/10.1007/978-3-030-55757-7_29

In: Visa I., Duta A. (eds) Solar Energy Conversion in Communities. Springer Proceedings in Energy. Springer, Cham. Print ISBN 978-3-030-55756-0

Cb.2. Oane M., Sava B.A.*, Boroica L., Medianu R., Vasiliu I.C., Elisa M., **Filip A.V.**, Dinca M.C., *Multi-Temperature Model for Ultrafast Laser Experiments on Single Layered Graphene*, Springer Proceedings in Energy (The 6th Conference for Sustainable Energy, CSE 22-24 octombrie 2020, Brasov), Solar Energy Conversion in Communities, september 2020, pp 411-422, **Chapter 28**, eISBN 978-3-030-55757-7, https://doi.org/10.1007/978-3-030-55757-7_28

In: Visa I., Duta A. (eds) Solar Energy Conversion in Communities. Springer Proceedings in Energy. Springer, Cham. Print ISBN 978-3-030-55756-0

Cb.3. M. Elisa*, S. M. Iordache, A-M. Iordache, I. C. Vasiliu, B. A. Sava, L. Boroica, M. C. Dinca, **A. V. Filip**, A. C. Galca, C. Barthä, N. Iacob, V. Kuncser, M. Eftimie, *Synthesis and complex characterization of a zinc phosphate-tellurite glass as Faraday rotators*, (Conference „Optoelectronics into a powerful economy”, INOE 200, 20-23 october 2020, Magurele, Romania) Optoelectronics into a powerful economy, october 2020, pp 135-145, **Chapter III** – Optoelectronics and optospintronics- emergent phenomena, materials and applications, ISBN: 978-973-720-822-4, cotat CNCSIS, https://certo.inoe.ro/publications/books/oep2020_book_of_proceedings.pdf

In: Roxana Rădvă (eds) Optoelectronics into a powerful economy. INOE 2000. AGIR Publishing House. Print ISBN: 978-973-720-822-4

e) articole în extenso publicate în reviste din fluxul științific internațional principal:

IV. Lucrări publicate în reviste de specialitate (Ris):

Ris.1. Viorica Musat*, **Ana Filip**, Nicolae Tigau, Rodica Dinica, Elena Herbei, Cosmin Romanitan, Iuliana Mihalache, Munizer Purica, *1D nanostructured ZnO layers by microwave – assisted hydrothermal synthesis*, Revista de Chimie 69 (10), 2018, 2788-2793, WOS: 000451925300037, ISSN: 0034-7752, <https://doi.org/10.37358/RC.18.10.6625>, IF 2018 = 1,605 Q3; AIS 2018 = 0,052; <https://revistadechimie.ro/pdf/37%20MUSAT%20V%20I%2010%2018.pdf>.

Ris.2. **Ana Filip**, Viorica Mușat*, Nicolae Tigau, Silviu Polosan, Ana Pimentel, Sofia Ferreira, Daniela Gomes, Tomas Calmeiro, Rodrigo Martins, Elvira Fortunato, *ZnO nanostructures grown on ITO coated glass substrate by microwave-assisted hydrothermal method*, Optik 208, aprilie 2020, 164372, ISSN 0030-4026, WOS:000535717800022, <https://www.sciencedirect.com/science/article/abs/pii/S0030402620302060>, DOI: [10.1016/j.ijleo.2020.164372](https://doi.org/10.1016/j.ijleo.2020.164372), IF 2020 = 2,443 Q2; AIS 2020 = 0,265;

- Ris.3.** Mihai Eftimie, **Ana Filip***, Cristina Todașcă, Laura Șerban, *Investigation of the glass containers regarding the migration of ions with food degradation potential*, Romanian Journal of Materials 50(1) (2020) 33 – 39, ISSN-L 1583-3186, WOS:000519991200005, <http://solacolu.chim.upb.ro/pg33-39.pdf>. IF 2020 = 0,563 Q4; AIS 2020 = 0,057;
- Ris.4.** Mihai Eftimie, **Ana Filip***, *Chemical composition-basicity-thermodynamic properties correlations on the MO-SiO₂ compounds formation*, U.P.B. Sci. Bull., Series B, Vol. 82, Iss. 2, 2020, 109-120, ISSN 1454-2331, WOS:000550842800010, https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rez181_339197.pdf; IF 2022 = 0,500 Q4; AIS 2020 = 0,042;
- Ris.5.** Mihail Elisa, Raluca Constantina Stefan, Ileana Cristina Vasiliu, Stefan Marian Iordache, Ana-Maria Iordache, Bogdan Alexandru Sava*, Lucica Boroica, Marius Catalin Dinca, **Ana Violeta Filip**, Aurelian Catalin Galca, Cristina Bartha, Nicu Iacob, Madalin Ion Rusu, Mihai Eftimie, Victor Kuncser, *A new zinc phosphate-tellurite glass for magneto-optical applications*, Nanomaterials, 10(1875), 2020, 1-19, doi:10.3390/nano10091875, e-ISSN 2079-4991, WOS:000579935000001, <https://www.mdpi.com/2079-4991/10/9/1875>; IF 2020 = 5,076 Q1; AIS 2020 = 0,756;
- Ris.6.** Bogdan Alexandru Sava, **Ana Filip***, Lucica Boroica, Mihai Eftimie, Marius Catalin Dinca, Andrei Soroaia, Alexandra Maria Isabel Trefilov, Mihaela Filipescu, Simona Brajnocov, Antoniu Moldovan, Ana-Maria Iordache, Mihai Elisa, *Dy³⁺ and Tb³⁺ co-doped boro-phosphate sol-gel vitreous thin films*, Journal of Sol-Gel Science and Technology (Springer), 97, 2021, 39-47, WOS:000585687700002, ISSN: 0928-0707, e-ISSN: 1573-4846; <https://doi.org/10.1007/s10971-020-05427-4>, IF 2021 = 2,606 Q1; AIS 2021 = 0,297;
- Ris.7.** M. Elisa, S.-M. Iordache*, A.-M. Iordache, I. C. Vasiliu, C. E. A. Grigorescu, B. A. Sava, L. Boroica, **A. V. Filip**, M. C. Dinca, C. Bartha, N. De Acha, C. Elosua Aguado, *Peculiarities of the structural and optical properties of rare-earth-doped phosphate glasses for temperature sensing applications*, Journal of Non-Crystalline Solids (Elsevier), 556 (2021) 120569, ISSN: 0022-3093, e-ISSN: 1873-4812, WOS:000619740700006, <https://doi.org/10.1016/j.jnoncrysol.2020.120569>; IF 2021 = 4,458 Q1; AIS 2021 = 0,508;
- Ris.8.** M. C. Dinca, B.A. Sava*, A.C. Galca, V. Kuncser, N. Iacob, G.E. Stan, L. Boroica, **A.V. Filip**, M. Elisa, *Magneto-optical properties of borophosphate glass doped with Tb³⁺ and Dy³⁺*, Journal of Non-Crystalline Solids (Elsevier), 568 (2021) 120967, ISSN: 0022-3093, e-ISSN: 1873-4812, WOS:000679100300002, <https://doi.org/10.1016/j.jnoncrysol.2021.120967>; IF 2021 = 4,458 Q1; AIS 2021 = 0,508;
- Ris.9.** M. Elisa, I. C. Vasiliu, B. A. Sava, L. Boroica, **A. V. Filip***, M. C. Dinca, C. Bartha, *Phase and structural characterization of phosphate-tellurite crystalline materials*, Journal of Optoelectronics and Advanced Materials, 23 (5-6) (2021) 257-263, eISSN: 1841-7132, ISSN: 1454-4164, WOS:000685474100008, <https://joam.inoe.ro/articles/phase-and-structural-characterization-of-phosphate-tellurite-crystalline-materials/>; IF 2021 = 0,5 Q4; AIS 2021 = 0,066;
- Ris.10.** Elisa, M.; Iordache*, S.-M.; Iordache, A.-M.; Stefan, C.R.; Vasiliu, I.C.; Cristea*, D.; Ursutiu, D.; Samoila, C.; Sava*, B.A.; Boroica, L.; Dinca, M.C.; **Filip, A.V.**; Eftimie, M.; Enculescu, M. *Investigations Regarding the Addition of ZnO and Li₂O-TiO₂ to Phosphate-Tellurite Glasses: Structural, Chemical, and Mechanical Properties*. Materials (MDPI) 15 (2022) 1644, eISSN 1996-1944. WOS:000774225400001, <https://doi.org/10.3390/ma15051644>; (open access) IF 2022 = 3,4 Q2; AIS 2022 = 0,511
- Ris.11.** Cristian N. Mihailescu, Mihai Oane, Bogdan A. Sava, Andrei C. Popescu, Mihail Elisa, Muhammad Arif Mahmood, Natalia Mihailescu, **Ana V. Filip**, Sinziana Andreea Anghel, Ion N. Mihailescu, Carmen Ristoscu*, *Laser Additive Manufacturing of Bulk Silicon Nitride Ceramic: Modeling versus Integral Transform Technique with Experimental Correlation*, Crystals (MDPI) 12 (2022) 1155. eISSN 2073-4352, WOS:000846003400001, <https://doi.org/10.3390/cryst12081155>; IF 2022 = 2,7 Q2; AIS 2022 = 0,424;
- Ris.12.** Mihai Oane, Bogdan A. Sava, Muhammad Arif Mahmood, Natalia Mihailescu, Sinziana Anghel, **Ana V. Filip**, Ion N. Mihailescu, Cristian N. Mihailescu, Carmen Ristoscu*, *Mathematical formalism of femtosecond laser-deoxyribonucleic acid interaction: thermal evolution*, Heliyon (Cell Press) 8 (2022) 11765, eISSN 2405-8440, WOS:000911724200010, <https://doi.org/10.1016/j.heliyon.2022.e11765>, IF 2022 = 4,0 Q2; AIS 2022 = 0,607;
- Ris.13.** **Ana Violeta Filip**, Bogdan Alexandru Sava*, Rares Victor Medianu, Lucica Boroica, Marius Catalin Dinca, Rovenă Pascu, Nicolae Tigau, Andreea Andrei, Antoniu Moldovan, Marius Dumitru, Mihai Oane, Mihai Eftimie, *Ultrathin Films of Silver by Magnetron Sputtering*, Inorganics (MDPI) 10 (2022) 235, eISSN: 2304-

6740, WOS:000902667300001; <https://doi.org/10.3390/inorganics10120235>; IF 2022 = 2,9 Q2; AIS 2022 = 0,426;

- Ris.14. Ana Violeta Filip**, Alexandra Maria Isabel Trefilov, Lucica Boroica, Marius Catalin Dinca, Mihail Elisa, Ileana Cristina Vasiliu, Nicolae Tigau, Simona Brajnicov, Marius Dumitru, Catalin Luculescu, Oana Gherasim (Fufa), Bogdan Alexandru Sava, *Graphene oxide- boro-phosphate glass nano-composite thin films synthesized by sol-gel spin coating method*, Journal of Non-Crystalline Solids (Elsevier), 613 (1 August 2023) 122372, ISSN: 0022-3093, e-ISSN: 1873-4812. WOS:001008739600001, <https://doi.org/10.1016/j.jnoncrysol.2023.122372>; IF 2023 = 3,2 Q1; AIS 2023 = 0,478
- Ris.15. Ileana Cristina Vasiliu, Ana Violeta Filip***, Irinela Chilibon*, Mihail Elisa, Cristina Barthä, Victor Kuncser, Aurel Leca, Lucica Boroica, Bogdan Alexandru Sava, Roxana Trusca, Mihai Eftimie and Adrian Nicoara, *Effect of P₂O₅ Content on Luminescence of Reduced Graphene-Oxide-Doped ZnO–P₂O₅ Nano-Structured Films Prepared via the Sol–Gel Method*, Materials (MDPI) 16 (2023) 6156, eISSN 1996-1944, WOS:001073630200001; <https://doi.org/10.3390/ma16186156>; IF 2023 = 3,1 Q3; AIS 2023 = 0,508
- Ris.16. Eftimie, M., Filip, A.V.***, Danescu, C.B., Nitescu Andrei, Sava, B.A., *Obtaining and conductive properties of a vanadate-borate-phosphate glass*, Scientific Reports (Nature), 13 (2023) 16054, eISSN 2045-2322, WOS:001116558400091, MEDLINE:37749211, <https://doi.org/10.1038/s41598-023-43302-8>; IF 2023 = 3,8 Q1; AIS 2023 = 1,061
- Ris.17. Sinziana Anghel, Mihai Oane***, Cristian N. Mihăilescu*, Bogdan A. Sava, Mihail Elisa, Natalia Mihăilescu*, Dorina Ticoș, Alexandra M. Trefilov*, Carmen Ristoscu, **Ana V. Filip**, Ion N. Mihăilescu, *Thermal lattice field during ultra-short laser pulses irradiation of metal targets: a Fokker-Planck analytical model*, Metals (MDPI) 13(10), 2023, 1775. eISSN 2075-4701. WOS:001094345900001, <https://doi.org/10.3390/met13101775>; IF 2023 = 2,6 Q2; AIS 2023 = 0,402
- Ris.18. Mihai-Alexandru Eftimie, Carmen-Cristina Udrea, Mihaela-Alina Melinescu***, **Ana-Violeta Filip**, *Study on borosilicate glasses with UV transmission*, Revista Română de Materiale 53(3), 2023, 205–211, ISSN 1583-3186, WOS:001115559100001, <https://solacolu.chim.upb.ro/pg205-211.pdf>; IF 2023 = 0,4 Q4; AIS 2023 = 0,064

IV. Lucrări publicate în volumele unor manifestări științifice internaționale (Vis):

- Vis.1. Ana Filip**, Viorica Musat, Nicolae Tigau, Alina Cantaragiu, Cosmin Romanitan, Munizer Purica, *Substrate effect on the morphology and optical properties of ZnO nanorods layers grown by microwave-assisted hydrothermal method*, Proceedings of the International Semiconductor Conference, CAS 10 – 12 October 2018, Sinaia; Romania, Vol. October 2018, 8539811, p. 265-268, DOI: 10.1109/SMICND.2018.8539811, eISBN: 978-1-5386-4482-9, WOS:000514386700054, <https://ieeexplore.ieee.org/document/8539811>.
- Vis.2. Mihai Eftimie, Ana Filip**, Alexandra Banu, *Theoretical calculus of the mechanical strength of binary oxide glasses*, IOP Conf. Series: Materials Science and Engineering, 10-11 October 2019, București, România, vol. 682 (1), noiembrie 2019, 012008, ISSN: 1757-899X, <https://doi.org/10.1088/1757-899X/682/1/012008>. „10th International Conference on Advanced Manufacturing Technologies – ICAMaT 2019”.
- Vis.3. Ana Violeta Filip**, Mihai Alexandru Eftimie, *Reuse of glass fiber waste in the circular economy*, „The 20th International Conference of Nonconventional Technologies – ICNcT 2019”, 10-11 Octombrie 2019, București, România, Nonconventional Technologies Review, 24 (1), 2020, 44-49, ISSN 2359-8654, <http://revtn.ro/index.php/revtn/article/view/269>.
- Vis.4. Bogdan Alexandru Sava***, Ion Sandu, Bogdan Stefanita Calin, Lucica Boroica, **Ana Violeta Filip**, Marius Cătălin Dincă, Alexandra Maria Isabel Trefilov, Claudiu Teodor Fleacă, Marius Dumitru, Marian Zamfirescu, and Dumitru Ulieru "Optical effects by opal/reverse opal structures, laser polymerizing and plasmonic Ag ultra-thin films", Proc. SPIE 12584, Smart Materials for Opto-Electronic Applications, 125840K (9 June 2023); 0277-786X, <https://doi.org/10.1117/12.2682701>.

VI. Contracte și rapoarte științifice (P, F):

Pn.1. PN-III-P1-1.1-PD-2021-0682 1/ Nr.42/2022 “Oxizi conductori transparenți din sisteme vanadato-boro-fosfatice dopate și nedopate pentru dispozitive fotonice – PHOTOTCO”, finanțat de UEFISCDI pentru perioada 01.04.2022-29.03.2024 cu suma de 250.000 lei (aproximativ 53.200 euro) – site: phototco.taf.inflpr.ro

g) alte lucrări și contribuții științifice

Comunicări științifice nepublicate (E):

- E.1. The 2nd The International Conference on Laser, Plasma and Radiation – Science and Technology (ICLPR-ST), Danube Delta, Romania, Ion SANDU, Bogdan Ionut BIȚĂ, **Ana Violeta FILIP**, Adriana BALAN, Anca NEDELCEA, Alexandra Maria Isabel TREFILOV*, *Self-assembled carbon nanostructured carpets as microporous layers in proton exchange membranes fuel cells*.
- E.2. Expoziția internațională specializată InfoInvent, Ediția a XVIII-a, 22-24 noiembrie 2023, Chișinău, Republica Moldova, **Ana Violeta Filip***, Bogdan Alexandru Sava, Mihai Eftimie, Valentin Craciun, „*Sticle vanado-boro-fosfatice cu proprietăți electrice și procedeu de obținere a acestora*” / „*Vanado-boron-phosphate glasses with electrical properties and process for obtaining them*” (A00484/2023) I.A.22 pag.43 – medalie de bronz
- E.3. The 15th International Conference on Physics of Advanced Materials, ICPAM-15, 19-26 noiembrie 2023, Sharm El Sheikh, Egypt, **A.V. Filip***, M. Eftimie, V. Craciun, L.I. Toderascu, B. Bită, A.M. Banici, P. Garoi, A.M.I. Trefilov, L. Boroica, B.A. Sava, „*Sol-Gel semiconducting thin films in V2O5-B2O3-P2O5 system*”, T1-P – short oral presentation
- E.4. 6th International conference on emerging technologies in materials engineering EmergeMAT 2023, Ediția a 6-a, 9-10 noiembrie 2023, București, Romania, Mihai Eftimie*, Alina Melinescu, **Ana Violeta Filip**, Bogdan Alexandru Sava, Carmen Cristina Udrea, „*UV transmission of some borosilicate glasses*”, p. 122 – poster
- E.5. 6th International conference on emerging technologies in materials engineering EmergeMAT 2023, Ediția a 6-a, 9-10 noiembrie 2023, București, Romania, M. Oane, **A.V. Filip***, D. Ticoș, L. Boroica, A.M.I. Trefilov, B.A. Sava, „*Temperature values calculated for a dust particle in RF plasma under laser irradiation*”, p. 163 – poster
- E.6. 6th International conference on emerging technologies in materials engineering EmergeMAT 2023, Ediția a 6-a, 9-10 noiembrie 2023, București, Romania, Alexandra M.I. Trefilov*, Adriana Elena Balan, Ioan Stamatin, **Ana V. Filip**, Bogdan A. Sava, „*Composite proton-exchange membrane based on perfluorosulfonated polymers and resorcinol-formaldehyde hydrogels*”, p. 102 – poster
- E.7. 6th International conference on emerging technologies in materials engineering EmergeMAT 2023, Ediția a 6-a, 9-10 noiembrie 2023, București, Romania, Alexandra M.I. Trefilov*, Adriana Elena Balan, Bogdan Ionut Bită, Sorin Vizireanu, **Ana V. Filip**, Lucica Boroica, Bogdan A. Sava, „*New microporous layer architecture based on n-doped carbon nanowalls for proton exchange membranes fuel cells*”, p. 71 – poster
- E.8. 6th International conference on emerging technologies in materials engineering EmergeMAT 2023, Ediția a 6-a, 9-10 noiembrie 2023, București, Romania, **A.V. Filip***, V. Craciun, M. Eftimie, L.I. Toderascu, B. Bită, A.M. Banici, P. Garoi, A.M.I. Trefilov, L. Boroica, M. Elisa, I.C. Vasiliu, B.A. Sava, „*Thin film semiconductive glasses from V2O5 – B2O3 – P2O5 system*”, p. 44 – poster
- E.9. 6th International conference on emerging technologies in materials engineering EmergeMAT 2023, Ediția a 6-a, 9-10 noiembrie 2023, București, Romania, L. Boroica*, R. Medianu, A.M.I. Trefilov, M. Oane, I. Urzica, A. Moldovan, B. Bită, **A.V. Filip**, B.A. Sava, „*SiO2 and TiO2 thin films for laser mirrors obtained by RF-magnetron sputtering*”, p. 31 – poster
- E.10. Salonul Internațional al cercatării Științifice, Inovării și Invenției ProInvent 2023, Ediția XXI, 25-27 octombrie 2023, Cluj-Napoca, Romania, **Ana Violeta Filip**, Bogdan Alexandru Sava, Mihai Eftimie, Valentin Craciun, „*Vanado-boron-phosphate glasses with electrical properties and process for obtaining them*” (cerere brevet A00484/2023), p.95 – medalie Aur
- E.11. The 4th International Exhibition INVENTCOR, 14-16 septembrie 2023, Deva, Romania, Bogdan Alexandru Sava, Lucica Boroica, **Ana Violeta Filip***, Ileana Cristina Vasiliu, Mihail Elisa, Ana Maria Iordache, „*Doped boro-lead-phosphate glass and nanocarbon composites and method for obtaining them*” / „*Compozite din sticle*

- boro-plumbo-fosfatice dopate și nanocarbon și procedeu de obținere a acestora*” (cerere brevet A00379/2021) p.68 – medalie de Aur
- E.12. The 4th International Exhibition INVENTCOR, 14-16 september 2023, Deva, Romania, Ileana Cristina Vasiliu, Ana Maria Iordache, Mihail Elisa, Iulian Pana, Bogdan Alexandru Sava, Lucica Boroica, **Ana Violeta Filip***, „*Films based on titanium (TiO₂) and phosphorus (P₂O₅) oxides modified with reduced graphene oxide (rGO) with controllable photocatalytic properties and process to obtain them*”/ „*Filme pe bază de oxid de titan (TiO₂) și fosfor (P₂O₅) modificate cu oxid de grafenă redus (rGO) cu proprietăți fotocatalitice controlabile și procedeu de obținere a acestora*” (cerere brevet A00342/2021) p.67-68 – medalie Aur
- E.13. The 4th International Exhibition INVENTCOR, 14-16 september 2023, Deva, Romania, **Ana Violeta Filip***, Bogdan Alexandru Sava, Mihai Eftimie, Valentin Craciun, „*Vanado-boron-phosphate glasses with electrical properties and process for obtaining them*” (cerere brevet A00484/2023), p.65 – medalie de Aur
- E.14. The 27th International Exhibition of Inventions “INVENTICA 2023” Iasi, Romania, 22-24 iunie 2023, **Ana Violeta Filip**, Valentin Craciun, „*Transparent Conductive Oxides from doped and undoped vanadate borate phosphate systems for photonic devices*” – gold medal
- E.15. Salonul International de Inventii și Inovatii “Traian Vuia”, Timisoara, 15-17 iunie 2023, Vasiliu Ileana Cristina, Iordache Ana Maria, Elisa Mihail, Pana Iulian, Sava Bogdan Alexandru, Boroica Lucica, **Filip Ana Violeta***, „*Filme pe bază de oxid de titan (TiO₂) și fosfor (P₂O₅) modificate cu oxid de grafenă redus (rGO) cu proprietăți fotocatalitice controlabile și procedeu de obținere a acestora*”, cerere de brevet nr. A/00342/17.06.2021, p. 84, ISBN 978-606-785-273-8, Agroprint Publishing House, Timisoara, 2023 – Medalie de aur
- E.16. Salonul International de Inventii și Inovatii “Traian Vuia”, Timisoara, 15-17 iunie 2023, **Ana Violeta Filip***, Valentin Craciun, „*Transparent Conductive Oxides from doped and undoped vanadate borate phosphate systems for photonic devices*”, p. 82, ISBN 978-606-785-273-8, Agroprint Publishing House, Timisoara, 2023 – silver medal
- E.17. Salonul International de Inventii și Inovatii “Traian Vuia”, Timisoara, 15-17 iunie 2023, Sava Bogdan Alexandru, Boroica Lucica, **Filip Ana Violeta***, Vasiliu Ileana Cristina, Elisa Mihail, Iordache Ana Maria, „*Compozite din sticle boro-plumbo-fosfatice dopate și nanocarbon și procedeu de obținere a acestora*”, cerere brevet nr. A/00379/30.06.2021, p. 83 – medalie aur
- E.18. Bogdan Alexandru Sava*, Ion Sandu, Bogdan Stefanita Calin, Lucica Boroica, **Ana Violeta Filip**, Marius Cătălin Dincă, Alexandra Maria Isabel Trefilov, Claudiu Teodor Fleacă, Marius Dumitru, Marian Zamfirescu, Dumitru Ulieru, „*Optical effects by opal/reverse opal structures, laser polymerizing and plasmonic Ag ultra-thin films*”, Proc. SPIE 12584, Smart Materials for Opto-Electronic Applications, 125840K (2023); doi: 10.1117/12.2682701, Event: SPIE Optics + Optoelectronics, 2023, Prague, Czech Republic – oral presentation
- E.19. EUROINVENT-15th European Exhibition of Creativity and Innovation, 11-13.05.2023, Iasi, Romania, 2023, **Ana Violeta Filip***, Valentin Craciun, „*Transparent Conductive Oxides from doped and undoped vanadate borate phosphate systems for photonic devices*” – silver medal
- E.20. National Seminar of Physics, Chemistry and their Applications – Webinar NSPCA’23, 6-7 March 2023, Bordj-Bou-Arreridj, Algeria, H. Ramdane*, N. E Benaïoun, S. Benseghier, N. Moulayat, **A. Filip**, A. Trefilo, B. Sava, L. Boroica, P. GAROI, A. Nistorescu, D. Carciun, V. Carciun, „*L’étude du comportement électrochimique d’acier inoxydable austénitique revêtus par Nickel en milieu alcalin et milieu salin en combinant microscopie électronique à balayage (MEB) spectroscopie photoélectrons à rayon X (XPS) et techniques électrochimiques*” – Book of abstract Category: Materials for Chemistry (p.315) – poster presentation PMC1-14 p. 362, <https://sites.google.com/univ-bba.dz/nspca23/accueil?authuser=0>.
- E.21. 5th International Conference Emerging Technologies in Materials Engineering (EMERGEMAT) 27-28 October 2022 – Bucharest, Romania, **A.V. Filip***, C.B. Dănescu, M. Eftimie, L. Boroica, A.M.I. Trefilov, V. Crăciun, B.A. Sava, „*The conductive properties of a vanadate-borate-phosphate glass*” – poster presentation – Topic 1 – Materials for energy (nr. 11)
- E.22. 5th International Conference Emerging Technologies in Materials Engineering (EMERGEMAT) 27-28 October 2022 – Bucharest, Romania, Mihai Eftimie*, Alina Melinescu, **Ana Violeta Filip**, Bogdan Alexandru Sava, „*Low melting temperature borosilicate glass with UV transmission*” – poster presentation – Topic 3 – New materials for environmental protection (nr. 20)

- E.23. 5th International Conference Emerging Technologies in Materials Engineering (EMERGEMAT) 27-28 October 2022 – Bucharest, Romania, L. Boroica*, B. A. Sava, **A. V. Filip**, A. M. I. Trefilov, M. Oane, M. Elisa, M. Eftimie, „*Obtaining of thin films from BaO-B₂O₃-TiO₂ system*” – poster presentation – Topic 3 – New materials for environmental protection (nr. 18)
- E.24. International conference on Physics and its applications (Physics 2022), 18-21 July 2022, San Francisco, CA, SUA, Mihai Oane*, Cristian N. Mihăilescu, Carmen Ristoscu, Natalia Mihăilescu, **Ana V. Filip**, Bogdan A. Sava*, Ion N. Mihăilescu, „*A Mathematical Formalism to Describe the Thermal Behavior during Spatial Anisotropic Intensity Femtosecond Laser-DNA interaction*” – oral presentation (book of abstract p. 60)
- E.25. The 25th International Exhibition of Inventions INVENTICA, 23.06. – 25.06.2022, Iași, România, I. C. Vasiliu, A-M. Iordache, M. Elisa, I. Pana, B. A. Sava, L. Boroica, **A-V. Filip**, „*Films based on titanium (TiO₂) and phosphorus (P₂O₅) oxides modified with reduced graphene oxide (rGO) with controllable photocatalytic properties and process to obtain them*”, Medalie de aur cu Diploma de onoare
- E.26. International Conference on Laser, Plasma and Radiation – Science and Technology (ICLPR-ST), 07-10 June 2022, Bucharest, Romania, Rovena Pascu*, Bogdan Alexandru Sava, Iulian Boierasu, Ana Maria Niculescu, Antoniu Moldovan, **Ana Violeta Filip**, Dumitru Manica, „*Surface Plasmon Ultrathin Layers of Ag on Si(001) by RF Magnetron Sputtering*”, Book of abstract p.185 – poster presentation – Topic 4. New trends in thin films and nanomaterials synthesis and processing
- E.27. International Conference on Laser, Plasma and Radiation – Science and Technology (ICLPR-ST), 07-10 June 2022, Bucharest, Romania, Lucica Boroica*, Bogdan Alexandru Sava, **Ana Violeta Filip**, Mihai Oane, Mihai Eftimie, „*The Influence of the Quality of Substrate on the Film Structure*”, p.184 – 7101 – poster – Topic 4. New trends in thin films and nanomaterials synthesis and processing
- E.28. International Conference on Laser, Plasma and Radiation – Science and Technology (ICLPR-ST), 07-10 June 2022, Bucharest, Romania, Bogdan Alexandru Sava, **Ana Violeta Filip***, Lucica Boroica, Mihai Eftimie, Marius Catalin Dinca, Alexandra Maria Isabel Trefilov, Mihai Oane, Antoniu Moldovan, Mihail Elisa, „*The Influence of Deposition Parameters on Properties of Rare Earth Doped Boro-Phosphate Vitreous Thin Films*”, Book of abstract p.160 – 7101 – poster – Topic 4. New trends in thin films and nanomaterials synthesis and processing
- E.29. International Conference on Laser, Plasma and Radiation – Science and Technology (ICLPR-ST), 07-10 June 2022, Bucharest, Romania, Natalia Mihăilescu*, **Ana V. Filip**, Mihai Oane, Bogdan A. Sava, Lucica Boroica, Carmen Ristoscu*, Cristian N. Mihăilescu*, „*One-Temperature Analytical Model for Femto-/Atto-second Laser Beam-Metals Drilling with Empirical Testing: A Novel Approach*”, p.145 – poster – Topic 3. Interaction of radiation with matter under extreme conditions
- E.30. International Conference on Laser, Plasma and Radiation – Science and Technology (ICLPR-ST), 07-10 June 2022, Bucharest, Romania, Mihai Oane*, Bogdan A. Sava, Natalia Mihăilescu, **Ana V. Filip**, Lucica Boroica, V. R. Medianu, Carmen Ristoscu, Cristian N. Mihăilescu, Ion N. Mihăilescu, „*Fourier Two-Temperature Model to describe Ultrafast Laser Pulses Interaction with Metals: a Novel Mathematical Technique*”, p.114– 7101 – poster – Topic 1. Fundamentals, diagnostics and modelling in laser, plasma and radiation physics
- E.31. International Conference on Laser, Plasma and Radiation – Science and Technology (ICLPR-ST), 07-10 June 2022, Bucharest, Romania, Bogdan Alexandru Sava*, Rares Victor Medianu, Lucica Boroica, **Ana Violeta Filip**, Marius Catalin Dinca, Ion Sandu, Bogdan Calin, Marius Dumitru, Antoniu Moldovan, Rovena Pascu, Mihai Oane, Mihai Eftimie, „*Photo-Mobile-Polymer New Functionalities by Plasmonic Resonance, Opal/Reverse Opal Structures and Laser Polymerization*”, p.83, Online ISSN 2821 – 7101 – oral presentation
- E.32. EUROINVENT-14th European Exhibition of Creativity and Innovation, 25-28.05.2022, Iasi, Romania, 2022, I. C. Vasiliu, A-M. Iordache, M. Elisa, I. Pana, B. A. Sava, L. Boroica, **A-V. Filip***, „*Films based on titanium (TiO₂) and phosphorus (P₂O₅) oxides modified with reduced graphene oxide (rGO) with controllable photocatalytic properties and process to obtain them*”, Hybrid Edition, Proceedings, Poster RO. 254, pag.488 – prezentare poster – Diploma of Excellence
- E.33. EUROINVENT-14th European Exhibition of Creativity and Innovation, 25-28.05.2022, Iasi, Romania, 2022, Sava Bogdan Alexandru, Boroica Lucica, **Filip Ana Violeta***, Vasiliu Ileana Cristina, Elisa Mihail, Iordache Ana Maria, „*Doped boro-lead-phosphate glass and nanocarbon composites and method for obtaining them*”, A/00379/30.06.2021, Hybrid Edition, Poster RO. 157, pag. 414 – Silver Medal

- E.34. International Conference on Nuclear Technology Radiation Safety and Advanced Technological Researches, 10-11.12.2021, Istanbul, Turkey, Bogdan Alexandru Sava*, Lucica Boroica, **Ana-Violeta Filip**, Marius Catalin Dinca, Valentin Craciun, Doina Craciun, Bogdan Bitu, Ileana Cristina Vasiliu, Antoniu Moldovan, Catalin Luculescu, „*Sol-gel thin films in ternary system TiO_2 - ZnO - B_2O_3 by spin-coating deposition*”, pp. 142-144 – oral presentation online
- E.35. Expozitia internationala specializata EIS INFOINVENT, Chisinau, Republica Moldova, 17-20 noiembrie 2021, Sava Bogdan Alexandru*, Boroica Lucica, **Filip Ana Violeta**, Vasiliu Ileana Cristina, Elisa Mihail, Iordache Ana Maria, „*Compozite din sticle boro-plumbo-fosfatice dopate si nanocarbon si procedeu de obtinere a acestora*”, A/00379/30.06.2021 – oral presentation online (medalie de bronz)
- E.36. Expozitia internationala specializata EIS INFOINVENT, Chisinau, Republica Moldova, 17-20 noiembrie 2021, Vasiliu Ileana Cristina, Iordache Ana Maria, Elisa Mihail, Pana Iulian, Sava Bogdan Alexandru*, Boroica Lucica, **Filip Ana Violeta**, „*Filme pe bază de oxid de titan (TiO_2) si fosfor (P_2O_5) modificate cu oxid de grafenă redus (rGO) cu proprietăți fotocatalitice controlabile si procedeu de obtinere a acestora*”, A/00342/17.06.2021 – oral presentation online (medalie de bronz)
- E.37. Salonul Inovarii și Cercetarii UGAL INVENT, Galati, 10-12 noiembrie 2021, Sava Bogdan Alexandru, Boroica Lucica, **Filip Ana Violeta**, Vasiliu Ileana Cristina, Elisa Mihail, Iordache Ana Maria, „*Compozite din sticle boro-plumbo-fosfatice dopate si nanocarbon si procedeu de obtinere a acestora*”, A/00379/30.06.2021 – poster (medalie de bronz)
- E.38. Salonul Inovarii si Cercetarii UGAL INVENT, Galati, 10-12 noiembrie 2021, Vasiliu Ileana Cristina, Iordache Ana Maria, Elisa Mihail, Pana Iulian, Sava Bogdan Alexandru, Boroica Lucica, **Filip Ana Violeta**, „*Filme pe bază de oxid de titan (TiO_2) si fosfor (P_2O_5) modificate cu oxid de grafenă redus (rGO) cu proprietăți fotocatalitice controlabile si procedeu de obtinere a acestora*”, A/00342/17.06.2021 – poster
- E.39. 4th International Conference on Emerging Technologies in Materials Engineering, EmergeMat, 4-5 November 2021, Bucharest, Romania, **Ana Filip***, Bogdan Alexandru Sava, Marius Cătălin Dincă*, Lucica Boroica, Doina Crăciun, Valentin Crăciun, *Thin films obtained by spin coating, from ZnO - TiO_2 binary system*, Abstract Book pag.37 – Prezentare poster on-line
- E.40. Salonul International al Cercetarii Stiintifice, Inovarii si Inventicii PRO INVENT, Cluj Napoca, 20-22 octombrie 2021, Vasiliu Ileana Cristina, Iordache Ana Maria, Elisa Mihail, Pana Iulian, Sava Bogdan Alexandru*, Boroica Lucica, **Filip Ana Violeta**, „*Filme pe bază de oxid de titan (TiO_2) și fosfor (P_2O_5) modificate cu oxid de grafenă redus (rGO) cu proprietăți fotocatalitice controlabile și procedeu de obținere a acestora*”, A/00342/17.06.2021 – prezentare orala online (premiul mare al salonului si medalie de aur)
- E.41. Salonul International al Cercetarii Stiintifice, Inovarii si Inventicii PRO INVENT, Cluj Napoca, 20-22 octombrie 2021, Sava Bogdan Alexandru*, Boroica Lucica, **Filip Ana Violeta**, Vasiliu Ileana Cristina, Elisa Mihail, Iordache Ana Maria, „*Compozite din sticle boro-plumbo-fosfatice dopate și nanocarbon și procedeu de obținere a acestora*”, A/00379/30.06.2021 – oral presentation online (medalie de argint)
- E.42. A XIII-a Conferință de știința și ingineria materialelor oxidice, CONSILOX XIII, Alba Iulia, Romania, 01-03.10.2021, Ion Sandu, Bogdan Alexandru Sava*, Lucica Boroica, **Ana Violeta Filip**, Marius Cătălin Dincă, Claudiu Teodor Fleacă, Marius Dumitru, „*Opal-Inverse Opal nanostructures*”, Prezentare orala in plen, Abstract Book pag. 98-100
- E.43. A XIII-a Conferință de știința și ingineria materialelor oxidice, CONSILOX XIII, Alba Iulia, Romania, 01-03.10.2021, **Ana Violeta Filip***, Bogdan Alexandru Sava, Lucica Boroica, Marius Catalin Dinca, Mihai Eftimie, „*Correlation between structure and thermal expansion coefficient of phosphate and boro-phosphate glasses*”, Prezentare orala in plen, Abstract Book, pag. 95-96
- E.44. A XIII-a Conferință de știința și ingineria materialelor oxidice, CONSILOX XIII, Alba Iulia, Romania, 01-03.10.2021, Lucica Boroica*, Bogdan Alexandru Sava, **Ana Violeta Filip**, Marius Catalin Dinca, „*Crystallization of same glasses in the BaO - B_2O_3 - TiO_2 system*”, Prezentare orala in plen, Abstract Book, pag. 93-94
- E.45. A XIII-a Conferință de știința și ingineria materialelor oxidice, CONSILOX XIII, Alba Iulia, Romania, 01-03.10.2021, Lucica Boroica*, Bogdan Alexandru Sava, **Ana Violeta Filip**, Marius Catalin Dinca, „*Basicity of glasses from BaO - B_2O_3 - TiO_2* ”, Prezentare orala in plen, pag. 90-92
- E.46. A XIII-a Conferință de știința și ingineria materialelor oxidice, CONSILOX XIII, Alba Iulia, Romania, 01-03.10.2021, Bogdan Alexandru Sava*, Lucica Boroica, **Ana Violeta Filip**, Marius Cătălin Dincă, Ileana Cristina

- Vasiliu, Mihail Elisa, Ana Maria Iordache, Alexandra Maria Isabel Trefilov, Marius Dumitru, Oana Gherasim, Cătălin Luculescu, Anton Moldovan, Andreea Matei, Nicolae Țigău, „*Zinc-boro-phosphate glasses doped with graphene oxide*”, Prezentare orală în plen, Abstract Book, pag. 88-89
- E.47. A XIII-a Conferință de știință și ingineria materialelor oxidice, CONSILOX XIII, Alba Iulia, Romania, 01-03.10.2021, M.C. Dinca*, B.A. Sava, O.G. Duliu, V. Bercu, A.C. Galca, M. Eftimie, **A. Filip**, L. Boroica, „*Structural changes induced by neutron irradiation of borosilicate gadolinium doped borosilicate glasses*”, Prezentare orală în plen, Abstract Book, pag. 86-87
- E.48. A XIII-a Conferință de știință și ingineria materialelor oxidice, CONSILOX XIII, Alba Iulia, Romania, 01-03.10.2021, **Ana Violeta Filip***, Mihai Eftimie, Lucica Boroica, Bogdan Alexandru Sava, Alexandra Maria Isabel Trefilov, Marius Catalin Dinca, „*Obtaining of BaTiO₃ by controlled glass crystallization*”, Prezentare poster in-situ, Abstract Book, pag. 65-66
- E.49. The 13th International Conference on Physics of Advanced Materials – ICPAM, Sant Feliu de Guixols, Spain, 24-30 September 2021, M. C. Dinca*, B. A. Sava, V. Craciun, O. Duliu, V. Bercu, A. C. Galca, M. Eftimie, **A. Filip**, L. Boroica, „*Structural changes induced by neutron irradiation of gadolinium doped borosilicate glasses*”, oral presentation
- E.50. EMRS Fall Meeting 2021, 20-23 september 2021, Alexandra M.I. Trefilov*, Bogdan I. Bită, Sorin Vizireanu, **Ana V. Filip**, Marius C. Dinca, Bogdan A. Sava, Gheorghe Dinescu, Adriana Andronie, „*Plasma Functionalized Carbon Nanowalls as Microporous Layers in PEM Fuel Cells*”, oral presentation – SECTION A: Materials for energy – Materials for energy applications: hydrogen storage/production, solar cells, super capacitors, thermoelectric & carbon-based materials A.9.1.
- E.51. The 24th International Exhibition of Inventions “INVENTICA 2020” Iași, România, 2020, M. Elisa*, S-M. Iordache, A-M. Iordache, I. C. Vasiliu, B. A. Sava, L. Boroica, **A. V. Filip**, M. C. Dinca, V. Kuncser, C. A. Galca, „*Phosphate-tellurite vitreous material containing TiO₂, with magnetic and magneto-optical properties, for Faraday rotators*”, Abstract Book pag.337
- E.52. The 9th Global Conference on Materials Science and Engineering (CMSE 2020), 20-23 November 2020, China, Bogdan Alexandru Sava*, Rares Victor Medianu, Lucica Boroica, Marius Catalin Dinca, **Ana Violeta Filip**, Rovena Pascu, Antoniu Moldovan, Marius Dumitru, Mihai Oane, Mihai Eftimie, „*Very thin silver films on PET and optical glass; obtaining and properties*” – oral presentation (online) Session 2: Nanostructured Materials, Sensors and Actuators, Microdevices, Testing of Materials
- E.53. 3rd International conference on emerging technologies in materials engineering (EmergeMAT), 29-30 October 2020, Bucharest, Romania, B.A. Sava, **A.V. Filip***, L. Boroica, M. Elisa, I.C. Vasiliu, C.M. Dinca, M. Dumitru, A.M.I. Trefilov, S.M. Iordache, A.M. Iordache, M. Eftimie, „*Glass-Graphene oxide nanocomposite: obtaining and characterization*” – poster presentation (online) Section 2: Advanced materials and coatings for extreme conditions (corrosion, high temperatures, biomedical applications)
- E.54. 3rd International conference on emerging technologies in materials engineering (EmergeMAT), 29-30 October 2020, Bucharest, Romania, B. A. Sava, L. Boroica, M. Elisa, C. M. Dinca*, **A. V. Filip**, R. C. Stefan, I. C. Vasiliu, S. M. Iordache, A. M. Iordache, M. Eftimie, V. Kuncser, A. C. Galca, „*Doped phosphate glasses, obtaining and applications*” – poster (online) Section 2: Advanced materials and coatings for extreme conditions (corrosion, high temperatures, biomedical applications)
- E.55. 3rd International conference on emerging technologies in materials engineering (EmergeMAT), 29-30 October 2020, Bucharest, Romania, M. Eftimie, B. A. Sava, L. Boroica*, **A. V. Filip**, M. Elisa, C. M. Dinca, A. M. I. Trefilov, S. M. Iordache, A. M. Iordache, „*Thermal behavior of phosphate and boro-phosphate glasses*” – poster (online) Section 2: Advanced materials and coatings for extreme conditions
- E.56. The 6th Conference for Sustainable Energy, CSE 22-24 octombrie 2020, Brasov, Romania: Sava Bogdan Alexandru, Boroica Lucica*, Vasiliu Ileana Cristina, Elisa Mihail, **Ana Violeta Filip**, Catalin Marius Dinca, Mihai Oane, „*Graphene oxide–glass sol-gel nanocomposite*” – poster (online) Topic 4: New Trends in the Use of Solar Energy in Communities – 4.11
- E.57. The 6th Conference for Sustainable Energy, CSE 22-24 octombrie 2020, Brasov, Romania: Bogdan Alexandru Sava, Lucica Boroica, Ileana Cristina Vasiliu, Mihail Elisa, Alexandra Trefilov, **Ana Violeta Filip***, Andreea Matei, Catalin Marius Dinca, Oana Gherasim (Fufa), Mihai Eftimie, „*Graphene Oxide–Glass Nanocomposite Obtained by Sintering and Melting*” – oral presentation (online) Topic 4: New Trends in the Use

of Solar Energy in Communities – 4.9; Springer Proceedings in Energy: Solar Energy Conversion in Communities – Part V

- E.58. The 6th Conference for Sustainable Energy, CSE 22-24 octombrie 2020, Brasov, Romania: Mihai Oane, Sava Bogdan Alexandru*, Boroica Lucica, Rareș V. Medianu, Vasiliu Ileana Cristina, Elisa Mihail, **Ana Violeta Filip**, Catalin Marius Dinca, „*Multitemperature model for ultrafast laser experiments on single layer graphene*” – oral presentation (online) Topic 4: New Trends in the Use of Solar Energy in Communities – 4.8; Springer Proceedings in Energy: Solar Energy Conversion in Communities – Part V: New Trends in the Use of Solar Energy in Communities
- E.59. Conference „Optoelectronics into a powerful economy”, INOE 200, 20-23 octombrie 2020, Magurele, Romania: M. Elisa*, S. M. Iordache, A-M. Iordache, I. C. Vasiliu, B. A. Sava, L. Boroica, M. C. Dinca, **A. V. Filip**, A. C. Galca, C. Bartha, N. Iacob, V. Kuncser, M. Eftimie, „*Synthesis and complex characterization of a zinc phosphate-tellurite glass as Faraday rotators*” – oral presentation (online)
- E.60. Conferința „2nd International conference on emerging technologies in materials engineering” EmergeMat 6-8 november 2019, Bucharest, Romania (IMNR): Sava Bogdan Alexandru, Boroica Lucica*, Vasiliu Ileana Cristina, Elisa Mihail, Alexandra Trefilov, **Ana Filip**, Oana Gherasim (Fufa); „*Graphene and oxide graphene composite with phosphate glass*” – prezentare orală Section 4. Advanced materials for extreme conditions
- E.61. Conferința „10th International Conference on Advanced Manufacturing Technologies – ICAMaT 2019”, 10 Octombrie 2019, București, România: M. Eftimie*, **A. Filip**, A. Bannu; „*Theoretical calculus of the mechanical strength of binary oxide glasses*” – prezentare orală Section S1-9: Integrated Product Development
- E.62. Conferința „The 20th International Conference of Nonconventional Technologies – ICNcT 2019”, 10-11 Octombrie 2019, București, România: **Ana Filip***, Mihai Alexandru Eftimie; „*Reuse of glass fiber waste in circular economy*” – prezentare orală Section S3: Nonconventional forms of energy and environmental impact
- E.63. XX International Sol-Gel Conference 2019, 25-30 August 2019, Sankt Petersburg, Rusia: Bogdan Alexandru Sava*, Lucica Boroica, Cristina Ileana Vasiliu, **Ana Violeta Filip**, Alexandra Maria Isabel Trefilov, Andreea Matei, Mihail Elisa; „*Sol-gel preparation of nanocarbon – glass materials*” – poster, electronic Book of Abstracts, p. 166, <https://solgel2019.itmo.ru/>
- E.64. Conferința Școlilor Doctorale, 13-14 Iunie 2019, Galați, România: **Ana Filip***, Ana Pimentel, Nicolae Țigău, Silviu Poloșan, Alina Iftode, Elvira Fortunato, Viorica Mușat; „*Optical and electrical properties of ZnO/PFO hybrid nanostructures for optoelectronic applications*” – prezentare orală OP.5.1.11 Secția 5.1 – Emerging nanotechnology and future of advanced materials and coatings – premiul II
- E.65. Conferința „International Semiconductor Conference CAS2018, 10-12 Octombrie 2018, Sinaia, România: **A. Filip**, V. Mușat, N. Țigău, A. Cantaragiu, C. Romanitan, Munizer Purica; „*Substrate effect on the morphology and optical properties of ZnO nanorods layers grown by microwave-assisted hydrothermal method*” – poster N&MN.8
- E.66. Conferința Școlilor Doctorale, 7-8 Iunie 2018, Galați, România: **Ana Filip***, Ana Pimentel, Sofia Ferreira, Elena Emanuela Herbei, Rodrigo Martins, Elvira Fortunato, Viorica Mușat; „*Increasing the efficiency of electroluminescent layer in hybrid light emitting devices (HLEDs) using organic polymers*” – prezentare orală OP.5.1.4 Secția 5
- E.67. Conferința „14th International Conference on Nanosciences & Nanotechnologies”, 4-7 Iulie 2017, Thessaloniki, Grecia: V. Mușat, **A. Filip**, N. Țigău, R. Dinică, M. Purica, „*Microwave-assisted hydrothermal synthesis of 1D nanostructured ZnO based layers for optoelectronic applications*” – poster
- E.68. Participare la Workshop-ul „Impactul Nanotehnologiilor și Nanomaterialelor asupra Dezvoltării Industriale și Calității Vieții”, 9 iunie 2017, Galați, România: **Ana Filip***, Viorica Mușat; „*Materiale nanostructurate 1D pe bază de ZnO pentru dispozitive emițătoare de lumină (LED)*” – prezentare orală
- E.69. Conferința Școlilor Doctorale, 8-9 Iunie 2017, Galați, România: **Ana Filip***, Viorica Mușat; „*1D and 2D nanostructured semiconductive materials for light-emitting nano devices*” – prezentare orală (premiul I)
- E.70. Conferința ROMPHYSCHEM 16, 21-23 Septembrie 2016, Galați, România: Viorica Mușat, Munizer Purica, Elena Budianu, Adrian Dinescu, Florin Comănescu, **Ana Filip**, Nicușor Baroiu; „*1D and 2D ZnO and Al:ZnO interconnected nanostructures for sensing applications*” – prezentare poster [cu participare internațională]

- E.71. Conferința Școlilor Doctorale, 2-3 Iunie 2016, Galați, România: V. Mușat, **Ana Filip**, N. Țigău, P. Alexandru, L. Frangu, R. Belea; „*ITO/Cu:ZnO Nanostructured thin solid films for transparent electronics*” – poster
- E.72. S. Gosav*, M. Praisler, **A. Filip**, „*The relevance of the molecular descriptors for the modeling and the discrimination of amphetamines*”, Fourth National Conference on Applied Physics, sept 25-26, 2008, Galati, Romania (oral presentation)

Cereri brevete de invenții:

1. Cerere de Brevet - **Ana Violeta Filip**, Bogdan Alexandru Sava, Mihai Eftimie, Valentin Craciun, “*Sticle vanado-boro-fosfatice cu proprietăți electrice și procedeu de obținere a acestora*”/ “*Vanado-boron-phosphate glasses with electrical properties and process for obtaining them*”. A/00484/2023. Institutul Național pentru Fizica Laserilor, Plasmei și Radiației Măgurele, România. [din cadrul proiectului PN-III-P1-1.1-PD-2021-0682 1/ Nr.42/2022 “Oxizi conductori transparenți din sisteme vanadato-boro-fosfatice dopate și nedopate pentru dispozitive fotonice – PHOTOTCO”, finanțat de UEFISCDI pentru perioada 01.04.2022-29.03.2024 cu suma de 250.000 lei – site: phototco.taf.inflpr.ro].
2. Cerere de Brevet - Vasiliu Ileana Cristina, Iordache Ana Maria, Elisa Mihail, Pana Iulian, Sava Bogdan Alexandru, Boroica Lucica, **Filip Ana Violeta**, “*Filme pe bază de oxid de titan (TiO_2) și fosfor (P_2O_5) modificate cu oxid de grafenă redus (rGO) cu proprietăți fotocatalitice controlabile și procedeu de obținere a acestora*”/ “*Films based on titanium oxide (TiO_2) and phosphorus (P_2O_5) modified with reduced graphene oxide (rGO) with controllable photocatalytic properties and method for obtaining them*”. A/00342/17.06.2021. INOE2000 și INFLPR.
3. Cerere de Brevet - Sava Bogdan Alexandru, Boroica Lucica, **Filip Ana Violeta**, Vasiliu Ileana Cristina, Elisa Mihail, Iordache Ana Maria, “*Compozite din sticle boro-plumbo-fosfatice dopate și nanocarbon și procedeu de obținere a acestora*”/ “*Doped boro-lead-phosphate glass and nanocarbon composites and method for obtaining them*”. A/00379/30.06.2021. INFLPR și INOE2000.

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Semnătura: