

Lista completă de lucrări

LUCRĂRI REPREZENTATIVE (SELECȚIE DE MAXIMUM 10)

1. Ene, V.L., Dinescu, D., Zai, I., Djourellov, N., Vasile, B.S., Serban, A.B., Leca, V., Andronescu, E., Defect structure determination of GaN films in GaN/AlN/Si heterostructures by HR-TEM, XRD and slow positrons experiments. *Nanomaterials* 10, nr. 2 (2020): 197. **eISSN: 2079-4991; doi: 10.3390/nano10020197; WOS:000522456300016; FI 4.324.**
2. Ene, V.L., Neacsu, I.A., Oprea, O., Surdu, V.A., Trusca, R., Ficai, A., Andronescu, E., Single Step Synthesis of Glutamic/tartaric Acid-stabilised Fe₃O₄ Nanoparticles for Targeted Delivery Systems. *Revista de Chimie.* (2020) 71. 230-238. **ISSN: 0034-7752; doi: 10.37358/RC.20.2.7920; IF=1.755.**
3. Ene, V.L., Dinescu, D., Zai, I., Djourellov, N., Vasile, B.S., Serban, A.B., Leca, V., Andronescu, E. Study of Edge and Screw Dislocation Density in GaN/Al₂O₃ Heterostructure. *Materials (Basel).* 2019;12(24):4205. **eISSN: 1996-1944; doi:10.3390/ma12244205; WOS:000507308200183; FI 3.057.**
4. Nicoara, A.I., Ene, V.L.*, Voicu, B.B., Bucur, M.A., Neacsu, I.A., Vasile, B.S. and Iordache, F., Biocompatible Ag/Fe-Enhanced TiO₂ Nanoparticles as an Effective Compound in Sunscreens. *Nanomaterials*, 10(3), 2020, p.570. **eISSN: 2079-4991; doi:10.3390/nano10030570; WOS:000526090400170; FI 4.324.**
5. Neacsu, I. A., Serban, A. P., Nicoara, A. I., Trusca, R., Ene, V.L., Iordache, F., Biomimetic Composite Scaffold Based on Naturally Derived Biomaterials. *Polymers*, 2020; 12(5), 1161. **eISSN: 2073-4360; doi: 10.3390/polym12051161, WOS:000541431100166; FI 3.426.**
6. Șerban, A.B., Ene, V.L.*, Gheorghiu, C.C., Balabanski, D., Andronescu, E., Leca, V., RF magnetron sputtering of gallium nitride (GaN) on sapphire substrate. *UPB Sci Bull Ser B Chem Mater Sci.* 2019;81(3):11-18. **ISSN: 1454-2331; WOS:000487215400002.**
7. Ekström, E., le Febvrier, A., Fournier, D., Lu, J., Ene, V.L., Van Nong, N., Eriksson, F., Eklund, P., Paul, B., Formation mechanism and thermoelectric properties of CaMnO₃ thin

films synthesized by annealing of $\text{Ca}_{0.5}\text{Mn}_{0.5}\text{O}$ films, Journal of Materials Science, 2019; 54(11), 8482-8491. **ISSN: 0022-2461; doi: 10.1007/s10853-019-03496-7; WOS:000461787500032; FI 3.553.**

8. Nicoara, A.I., Neacsu, I.A., Ene, V.L., Vasile, B.S., Ficai, A., Andronescu, E., Hydroxyapatite/carbon based biocomposite scaffolds as prospective materials for bone tissue engineering. UPB Sci Bull Ser B Chem Mater Sci. 2019;81(4):107-120. **ISSN: 1454-2331; WOS:000501994100011.**
9. Voicu, G., Ene, V.L., Sava, D.-F., Surdu, V.-A., Busuioc, C., Sol-gel derived vitroc ceramic materials for biomedical applications, Journal of Non-Crystalline Solids, 2016; 449, 75-82. **ISSN: 0022-3093; doi: 10.1016/j.jnoncrysol.2016.07.021; WOS:000383298000011; FI 2.929.**
10. Ene, V.L., Nanostructured GaN films for particle moderation - Teza de doctorat, Universitatea Politehnica din București, București, O.M 4021/07.04.2020.

TEZA DE DOCTORAT

- T1.** Ene, V.L., Nanostructured GaN films for particle moderation - Teza de doctorat, Universitatea Politehnica din București, București, 2019, coordonator științific Prof. Dr. Ing. Ecaterina Andronescu, O.M 4021/07.04.2020.

BREVET DE INVENȚIE

- B1.** C. Bleotu, L. D. Dragu, L. Matei, C. C. Diaconu, M. Chivu-Economescu, A. S. Zurac, A. I. Neagu, L. G. Necula, A. M. Holban, L. M. Ditu, M. C. Chifiriuc, V. Lazar, G. Gradisteanu, I. A. Neacsu, V.L. Ene, E. Andronescu, A. Ficai, C. Balas, C. Ciobanu, L. C. Irimia, *Procedeu de obținere a unor hidrogeluri compozite pe bază de colagen și nanoparticule de argint pentru prevenirea infecțiilor de plagă / Producing collagen and silver nanoparticle based composite hydrogel useful for preventing wound infections, by reducing silver ions in collagen gel in presence of reducing agents e.g. sodium borohydride, and crosslinking hydrogel, RO134197-A2, 2020.*

ARTICOLE IN EXTENSO PUBLICATE ÎN REVISTE INDEXATE ISI

- Ris1.** Ene, V.L., Dinescu, D., Zai, I., Djourellov, N., Vasile, B.S., Serban, A.B., Leca, V., Andronescu, E., Defect structure determination of GaN films in GaN/AlN/Si heterostructures by HR-TEM, XRD and slow positrons experiments. *Nanomaterials* 10, nr. 2 (2020): 197. **eISSN: 2079-4991; doi: 10.3390/nano10020197; WOS:000522456300016; FI 4.324.**
- Ris2.** Ene, V.L., Neacsu, I.A., Oprea, O., Surdu, V.A., Trusca, R., Ficai, A., Andronescu, E., Single Step Synthesis of Glutamic/tartaric Acid-stabilised Fe₃O₄ Nanoparticles for Targeted Delivery Systems. *Revista de Chimie.* (2020) 71. 230-238. **ISSN: 0034-7752; doi: 10.37358/RC.20.2.7920; IF=1.755.**
- Ris3.** Ene, V.L., Dinescu, D., Zai, I., Djourellov, N., Vasile, B.S., Serban, A.B., Leca, V., Andronescu, E. Study of Edge and Screw Dislocation Density in GaN/Al₂O₃ Heterostructure. *Materials* (Basel). 2019;12(24):4205. **eISSN: 1996-1944; doi:10.3390/ma12244205; WOS:000507308200183; FI 3.057.**
- Ris4.** Nicoara, A.I., Ene, V.L.*, Voicu, B.B., Bucur, M.A., Neacsu, I.A., Vasile, B.S. and Iordache, F., Biocompatible Ag/Fe-Enhanced TiO₂ Nanoparticles as an Effective Compound in Sunscreens. *Nanomaterials*, 10(3), 2020, p.570. **eISSN: 2079-4991; doi:10.3390/nano10030570; WOS:000526090400170; FI 4.324.**
- Ris5.** Neacsu, I. A., Serban, A. P., Nicoara, A. I., Trusca, R., Ene, V.L., Iordache, F., Biomimetic Composite Scaffold Based on Naturally Derived Biomaterials. *Polymers*, 2020; 12(5), 1161. **eISSN: 2073-4360; doi: 10.3390/polym12051161, WOS:000541431100166; FI 3.426.**
- Ris6.** Şerban, A.B., Ene, V.L.*, Gheorghiu, C.C., Balabanski, D., Andronescu, E., Leca, V., RF magnetron sputtering of gallium nitride (GaN) on sapphire substrate. *UPB Sci Bull Ser B Chem Mater Sci.* 2019;81(3):11-18. **ISSN: 1454-2331; WOS:000487215400002.**
- Ris7.** Ekström, E., le Febvrier, A., Fournier, D., Lu, J., Ene, V.L., Van Nong, N., Eriksson, F., Eklund, P., Paul, B., Formation mechanism and thermoelectric properties of CaMnO₃ thin films synthesized by annealing of Ca_{0.5}Mn_{0.5}O films, *Journal of Materials Science*, 2019; 54(11), 8482-8491. **ISSN: 0022-2461; doi: 10.1007/s10853-019-03496-7; WOS:000461787500032; FI 3.553.**

Ris8. Nicoara, A.I., Neacsu, I.A., Ene, V.L., Vasile, B.S., Ficai, A., Andronescu, E., Hydroxyapatite/carbon based biocomposite scaffolds as prospective materials for bone tissue engineering. UPB Sci Bull Ser B Chem Mater Sci. 2019;81(4):107-120. **ISSN: 1454-2331; WOS:000501994100011.**

Ris9. Voicu, G., Ene, V.L., Sava, D.-F., Surdu, V.-A., Busuioc, C., Sol-gel derived vitroceramic materials for biomedical applications, Journal of Non-Crystalline Solids, 2016; 449, 75-82. **ISSN: 0022-3093; doi: 10.1016/j.jnoncrysol.2016.07.021; WOS:000383298000011; FI 2.929.**