
Universitatea Națională de Știință și Tehnologie POLITEHNICA București

Facultatea: **Inginerie Chimică și Biotehnologii**

Departamentul: **Știința și Ingineria Materialelor Oxidice și Nanomateriale**

Nume Prenume: **Ene Vladimir Lucian**

Gradul didactic: **conferentiar**

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

1. Ene, V.L., Nanostructured GaN films for particle moderation - Teza de doctorat, Universitatea Politehnica din București, București, O.M 4021/07.04.2020.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Poenariu, BAM; Amzoiu, DC; Ciocilteu, MV; Ene, VL; Ciulu-costinescu, F; Nicolicescu, C; Costachi, A; Chirigiu, L; Popescu, M; Nicolaescu, OE, Formulation and Characterization of PLGA-quercetin Hybrid Material with Pharmaceutical Applications, *Materiale Plastice*, vol. 61, nr. 4, pp. 30-40, 2024; ISSN 0025-5289, doi:10.37358/MP.24.4.5740, WOS:001399755900003, FI 0.6.

2. Doicin, I.E.; Preda, M.D.; Neacsu, I.A.; Ene, V.L.; Birca, A.C.; Vasile, B.S.; Andronescu, E., Tailoring Zinc Oxide Nanoparticles via Microwave-Assisted Hydrothermal Synthesis for Enhanced Antibacterial Properties. *Applied Sciences*, 14 (17) 7854, 2024. eISSN 2076-3417, doi:10.3390/app14177854, WOS:001311102200001, FI 2.5 (Q1).

3. Codrea, CI; Lincu, D; Ene, VL*; Nicoara, AI; Stan, MS; Ficai, D; Ficai, A; Three-Dimensional-Printed Composite Scaffolds Containing Poly-ε-Caprolactone and Strontium-Doped Hydroxyapatite for Osteoporotic Bone Restoration, *Polymers* 16(11) 1511, 2024; eISSN 2073-4360, doi: 10.3390/polym16111511, WOS:001245398800001, FI 4.7 (Q1).

4. Doicin, I.E.; Neacsu, I.A.; Ene, V.L.*; Birca, A.C.; Andronescu, E., Development and characterization of sodium alginate-zno nanoparticle reinforced composites for biomedical applications,

UPB Sci Bull Ser B Chem Mater Sci. 86(3), pp. 157-168, 2024; ISSN 1454-2331, WOS:001301114000013, FI 0.3

5. Simonescu, CM; Chipurici, P; Calinescu, I; Vinatoru, M; Toma, EN; Culita, DC; Ene, V.L.; Mason, TJ “Effects of ultrasounds and microwaves on the morphology and adsorption capacity of calcium alginate”, *Colloids and Surfaces A-physicochemical and engineering aspects*, 2024, 682, 132906, eISSN: 1873-4359, doi: 10.1016/j.colsurfa.2023.132906, WOS: 001137513900001, FI 5.2 (Q2)
6. Ene, V.L.; Lupu, VR; Condor, CV; Patru, RE; Hrib, LM; Amarande, L; Nicoara, AI; Pintilie, L; Ianculescu, AC. “Influence of Grain Size on Dielectric Behavior in Lead-Free $0.5\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$ - $0.5(\text{Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3$ Ceramics”, *Nanomaterials* 2023, 13(22): 2394, eISSN: 2079-4991; doi: 10.3390/nano13222934; WOS: 001114617800001; FI 5.3 (Q1)
7. Ciocîlteu, M.V., Scorei, I.R., Rău, G., Nicolicescu, C., Biță, A., Ene, V.L., Simionescu, A., Turcu-Știolică, A., Dinescu, V.C., Neamțu, J., Mogoantă, L., Mogosanu, G.D. “Zinc-Boron-PLGA biocomposite material: preparation, structural characterization, and in vitro assessment”, *Romanian Journal of Morphology and Embryology* 2023, 64(4), p. 567-577, eISSN: 2066-8279, doi: 10.47162/RJME.64.4.14, WOS: 001144004400002, FI 1.
8. Chircov, C., Mincă, M.A., Serban, A.B., Bîrcă, A.C., Dolete, G., Ene, V.L.*, Andronescu, E., Holban, A.M., “Zinc/cerium-substituted magnetite nanoparticles for biomedical applications” *International Journal of Molecular Sciences* 2023, 24(7), p. 6249, eISSN: 1422-0067, doi: 10.3390/ijms24076249, WOS: 000969809300001.
9. Neacsu, I.A.; Leau, S.-A.; Marin, S.; Holban, A.M.; Vasile, B.-S.; Nicoara, A.-I.; Ene, V.L.*; Bleotu, C.; Albu Kaya, M.G.; Ficai, A. „Collagen-Carboxymethylcellulose Biocomposite Wound-Dressings with Antimicrobial Activity” *Materials* 2021, 14, 1153, eISSN: 1996-1944, doi: 10.3390/ma14051153, WOS: 000628385900001, FI 3.623 (Q2)
10. Vasile, B.S., Nicoara, A.I., Surdu, V.A., Ene, V.L., Neacsu, I.A., Stoica, A.E., Oprea, O., Boerasu, I., Trusca, R., Vrabec, M., Miklavic, B., Sturm, S.; Ow-Yang, C.; Gulgun, M.A.; Bundur, Z.B. “Fly-ash evaluation as potential EOL material replacement of cement in pastes: Morpho-structural and physico-chemical properties assessment” *Materials* 2022, 15(9), p. 3092, eISSN:1996-1944, doi: 10.3390/ma15093092, WOS: 000795373500001, FI 3.4 (Q2).
11. Serban, A.B., Ene, V.L.*, Dinescu, D., Zai, I., Djourellov, N., Vasile, B.S., Leca, V., „Studies of Defect Structure in Epitaxial AlN/GaN Films Grown on (111) 3C-SiC”. *Nanomaterials*, 11(5), 2021 p.1299, eISSN: 2079-4991, doi:10.3390/nano11051299, FI 5.076 (Q1)

-
12. I.A. Neacsu, L. Matei, A.C. Birca, A.I. Nicoara, V.L. Ene*, L.D. Dragu, A. Ficai, C. Bleotu, E. Andronesu, „Curcumin - hydroxyapatite systems used for bone cancer treatment” *Rev. Romana Mater./ Rom. J. Mater.* 51(4), 505-513, 2021. WOS:000735439000004
 13. Ene, V.L., Dinescu, D., Zai, I., Djourellov, N., Vasile, B.S., Serban, A.B., Leca, V., Andronesu, 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 (Q2)
 14. 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 (Q2)
 15. Ene, V.L., Dinescu, D., Zai, I., Djourellov, N., Vasile, B.S., Serban, A.B., Leca, V., Andronesu, E. „Study of Edge and Screw Dislocation Density in GaN/Al₂O₃ Heterostructure” *Materials* 2019;12(24):4205, eISSN: 1996-1944; doi:10.3390/ma12244205; WOS:000507308200183; FI 3.057 (Q2)
 16. Şerban, A.B., Ene, V.L.*, Gheorghiu, C.C., Balabanski, D., Andronesu, 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.
 17. Motelica L, Ficai D, Oprea O-C, Ficai A, Ene V-L, Vasile B-S, Andronesu E, Holban A-M. „Antibacterial Biodegradable Films Based on Alginate with Silver Nanoparticles and Lemongrass Essential Oil–Innovative Packaging for Cheese” *Nanomaterials.* 2021; 11(9):2377, doi:10.3390/nano11092377; FI 5.076 Q1
 18. 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 4.329 Q1
 19. 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 Q2.
 20. Nicoara, A.I., Neacsu, I.A., Ene, V.L., Vasile, B.S., Ficai, A., Andronesu, 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.

21. 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 Q1

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. Ene, V.L., Neacsu, I.A., Oprea, O., Surdu, V.A., Trusca, R., Fikai, 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.
2. V.L. Ene, I. A. Neacsu, B.S. Vasile, A. C. Birca, E. Andronescu, A. Fikai, Nanostructured magnetic materials used in cancer treatment, *Annals – Series on Physics and Chemistry*, Vol 4 no 2/2019, ISSN 2537 – 4761.

E. Brevete obținute în întreaga activitate

1. 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. Fikai, 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**.