

Listă de lucrări publicate

Ș.I. Dr. Ing. Vasile Adrian SURDU

(a) Teza de doctorat

Domeniul: Inginerie Chimică

Titlul tezei de doctorat: Materiale multiferoice pe bază de BiFeO_3

(b) Brevete de invenție și alte titluri de proprietate industrială și intelectuală

Adelina-Carmen Ianculescu, Cătălina-Andreea Stanciu, Bogdan Ștefan Vasile, Roxana Trușcă, Adrian Ionuț Nicoară, Mihai Alexandru Eftimie, **Vasile-Adrian Surdu**, “Preparation by a combined procedure involving negative template and sol-gel chemistry of some 1D cerium doped BaTiO_3 nanostructures with ferroelectric and piezoelectric characteristics” “Procedeu de obținere a unor nanostructuri unidimensionale de BaTiO_3 dopat cu ceriu cu caracteristici feroelectrice și piezoelectrice”), OSIM A/00328 / 03 iunie 2019.

(c) Cărți și capitole de cărți

(d) Articole/studii *in extenso*, publicate în reviste din fluxul științific internațional principal

Articole publicate în reviste cu factor de impact

1. Mușat, V., Tăbăcaru, A., Vasile, B.S., **Surdu, V.-A.**, *Size-dependent photoluminescence of zinc oxide quantum dots through organosilane functionalization*, RSC Advances, Volume 4, Issue 108, 63128-63136, 2014, ISSN: 2046-2069, DOI:10.1039/c4ra10851e, WOS: 000345701500042, Impact Factor 3,84.
2. Vasile, O.R., Serdaru, I., Andronescu, E., Trușcă, R., **Surdu, V.A.**, Oprea, O., Ilie, A., Vasile, B.Ș., *Influence of the size and the morphology of ZnO nanoparticles on cell viability*, Comptes Rendus Chimie, Volume 18, Issue 12, 1335-1343, 2015, ISSN: 1631-0748, eISSN: 1878-1543, DOI:10.1016/j.crci.2015.08.005, WOS:000368050300012, Impact Factor 1,798.
3. Mesaros, A., Toloman, D., Nasui, M., Mos, R.B., Petrisor, T., Vasile, B.S., **Surdu, V.A.**, Perhaita, I., Biris, A., Pana, O., *A valence states approach for luminescence enhancement by low dopant concentration in Eu-doped ZnO nanoparticles*, Journal of Materials Science, Volume 50, Issue 18, 6075-6086, 2015, ISSN: 0022-2461, eISSN: 1573-4803, DOI:10.1007/s10853-015-9157-z, WOS:000356775900015, Impact Factor 2,302.
4. Băilă, D.-I., Mocioiu, O.-C., Zaharia, C., Trușcă, R., **Surdu, A.**, Bunea, M., *Bioactivity of Co-Cr alloy samples sintered by DMLS process and coated with hydroxyapatite obtained by sol-gel method*, Revue Roumaine de Chimie, Volume 60, Issue 9, 921-930, 2015, ISSN: 0035-3930, WOS:000366442600010, Impact Factor 0,25.

5. Purcel, G., **Surdu, A.**, Stoleriu, Ș., *Influence of spark plasma sintering conditions on Si_3N_4 ceramics used for bone implants [Influența condițiilor de sinterizare în plasmă (SPS) asupra Si_3N_4 utilizată pentru implanturi osoase]*, Revista Română de Materiale/ Romanian Journal of Materials, Volume 45, Issue 2, 160-170, 2015, ISSN: 1583-3186, WOS:000356637100008, Impact factor 0,612.
6. Gionea, A., Andronescu, E., **Surdu, V.-A.**, Trușcă, R., Ilie, A., Stoleriu, Ș., *Influence of Y_2O_3 dopant concentration on zirconia ceramics characteristics sintered through hot isostatic pressing [Influența concentrației de dopant Y_2O_3 asupra caracteristicilor ceramicilor zirconice sinterizate prin presare izostatică la cald]*, Revista Română de Materiale/ Romanian Journal of Materials, Volume 45, Issue 4, 348-353, 2015, ISSN: 1583-3186, WOS:000367029800006, Impact factor 0,612.
7. Băilă, D.I., Mocioiu, O.C., Zaharia, C., Trușcă, R., **Surdu, A.**, Bunea, M., *In vitro behavior of sintered compacts of Co-Cr doped with hydroxyapatite for biomedical implants*, Journal of Optoelectronics and Advanced Materials, Volume 17, Issue 42559, 1210-1218, 2015, ISSN: 1454-4164, eISSN: 1841-7132, WOS:000359967600047, Impact factor 0,383.
8. Popescu, A.C., Stan, G.E., Duta, L., Nita, C., Popescu, C., **Surdu, V.-A.**, Husanu, M.-A., Bită, B., Ghisleni, R., Himcinschi, C., Craciun, V., *The role of ambient gas and pressure on the structuring of hard diamond-like carbon films synthesized by pulsed laser deposition*, Materials, Volume 8, Issue 6, 3284-3305, 2015, ISSN: 1996-1944, WOS:000357588900024, DOI:10.3390/ma8063284, Impact factor 2,728.
9. Colie, M., Mihaiescu, D.E., **Surdu, A.**, Ficai, A., Trușcă, R., Istrati, D., Andronescu, E., *Obtaining $YBa_2Cu_3O_{7-d}$ through a modified auto-combustion reaction with and without addition of organic fuel*, Revue Roumaine de Chimie, Volume 60, Issue 42686, 1117-1123, 2015, ISSN: 0035-3930, WOS:000378984000013, Impact Factor 0,25.
10. Tăbăcaru, A., Mușat, V., Țigău, N., Vasile, B. Ș., **Surdu, V.-A.**, *Vinyltrimethoxysilane-modified zinc oxide quantum dots with tuned optical properties*, Applied Surface Science, Volume 359, 766-773, 2015, ISSN: 0169-4332, DOI: 10.1016/j.apsusc.2015.10.175, WOS:000366220600102, Impact Factor 2,982.
11. Gionea, A., Andronescu, E., Voicu, G., Bleotu, C., **Surdu, V.-A.**, *Influence of hot isostatic pressing on ZrO_2 -CaO dental ceramics properties*, International Journal of Pharmaceutics, Volume 510, Issue 2, 439-448, 2016, ISSN: 0378-5173, eISSN: 1873-3476, DOI:10.1016/j.ijpharm.2015.10.044, WOS:000380754500005, Impact Factor 3,994.
12. Băilă, D.-I., Mocioiu, O.-C., Trușcă, R., **Surdu, A.**, Zaharia, C., Bunea, M., *Biodegradation and mechanical behaviour of sintered compacts of Co-Cr alloy powder doped with ZrO_2 used in dentistry*, Tehnicki Vjesnik, Volume 23, Issue 4, 1047-1057, 2016, ISSN: 1330-3651, eISSN: 1848-6339, DOI:10.17559/TV-20150315185808, WOS:000382353400016, Impact Factor 0.464.
13. Ion, A., Andronescu, E., Rădulescu, D., Rădulescu, M., Iordache, F., Vasile, B. Ș., **Surdu, A. V.**, Albu, M. G., Maniu, H., Chifiriuc, M. C., Grumezescu, A. M., Holban, A. M., *Biocompatible 3D Matrix with Antimicrobial Properties*, Molecules, Volume 21, Issue, 1, E115, 2016, ISSN: 1420-3049, DOI: 10.3390/molecules21010115, WOS:000369486800043, Impact Factor 2,465.

14. Gionea, A., Andronescu, E., **Surdu, V.-A.**, Voicu, G., Pelin, G., *Influence of Sintering Conditions on Properties of Dental Zirconia Ceramics*, Revista de Chimie, Volume 67, Issue 8, 1547-1550, 2016, ISSN 0034-7752, Impact Factor 1.232.
15. Voicu, G., Ene, V.-L., Sava, D.-F., **Surdu, V.-A.**, Busuioac, C., *Sol-gel derived vitroc ceramic materials for biomedical applications*, Journal of Non-Crystalline Solids, Volume 449, 75-82, 2016, ISSN: 0022-3093, DOI:10.1016/j.jnoncrysol.2016.07.02, Impact Factor 2.124.
16. Colie, M., Mihaiescu, D., **Surdu, A.**, Ficai, A., Istrati, D., Andronescu, E., *Sinteza $YBa_2Cu_3O_{7-\delta}$ prin reacția de autocombustie modificată/Synthesis of $YBa_2Cu_3O_{7-\delta}$ by a modified autocombustion method*, Revista Română de Materiale/Romanian Journal of Materials, Volume 46, Issue 3, 2016, 369-374
17. Sibianu, T., Dimitrakis, G., Katrib, J., Matei, C., Berger, D., Dodds, C., **Surdu, A. V.**, Calinescu, I., Irvine, D. J., *Utilization of Dielectric Properties Assessment to Evaluate the Catalytic Activity and Rate of Deactivation of Heterogeneous Catalysts*, Industrial & Engineering Chemistry Research, Volume 56, Issue 8, 2017, 1940-1947, ISSN 0888-5885, DOI:10.1021/acs.iecr.6b04341
18. Vasile, B. Ș., Vasile, O. R., Ghițulică, D. C., Ilie, F. C., Nicoară, I. F., Trușcă, R., Oprea, O. C., **Surdu, V. A.**, Neacșu, I. A., *Eu^{3+} -doped ZnO nanostructures: advanced characterizations, photoluminescence and cytotoxic effect*, Romanian journal of morphology and embryology, Volume 58, Issue 3, 941-952, 2017, ISSN 1220-0522, Impact Factor 0.811.
19. Aydogdu, M. O., Oprea, A. E., Trușcă, R., **Surdu, A. V.**, Ficai, A., Holban, A. M., Iordache, F., Paduraru, A. V., Filip, D. G., Altun, E., Ekren, N., *Production and Characterization of Antimicrobial Electrospun Nanofibers Containing Polyurethane, Zirconium Oxide and Zeolite*, BioNanoScience, Volume 8, Issue 1, 154-165, 2018, ISSN 2191-1630, DOI:10.1007/s12668-017-0443-x, Impact Factor 1.52.
20. Cernea, M., Vasile, B. Ș., **Surdu, V. A.**, Trușcă, R., Crăciun, F., Galassi, C., *Synthesis and characterization of $CoFe_2O_4/BNT-BT_{0.08}$ core-shell nanotubes by a template based sol-gel method*, Ceramics International, Volume 44, Issue 9, 10813-10819, 2018, ISSN 0272-8842, DOI:10.1016/j.ceramint.2018.03.123, Impact Factor 3.057.
21. Cernea, M., Vasile, B. Ș., Ciuchi, I. V., **Surdu, V. A.**, Bartha, C., Iuga, A., Galizia, P., Galassi, C., *Synthesis and characterization of novel ferrite-piezoelectric multiferroic core-shell type structure*, Journal of Materials Science, Volume 53, Issue 13, 9650-9661, 2018, ISSN 0022-2461, Impact Factor 2.993.
22. Cernea, M., Vasile, B. Ș., **Surdu, V. A.**, Trușcă, R., Sima, M., Crăciun, F., Galassi, C., *Piezoelectric/ferromagnetic $BNT-BT_{0.08}/CoFe_2O_4$ coaxial core-shell composite nanotubes for nanoelectronic devices*, Journal of Alloys and Compounds, Volume 752, 381-388, 2018, ISSN 0925-8388, DOI:10.1016/j.jallcom.2018.04.146, Impact Factor 3.779.
23. Dumitru, R., Manea, F., Păcurariu, C., Lupa, L., Pop, A., Cioablă, A., **Surdu, V. A.**, Ianculescu, A., *Synthesis, Characterization of Nanosized $ZnCr_2O_4$ and Its Photocatalytic Performance in the Degradation of Humic Acid from Drinking Water*, Catalysts, Volume 8, Issue 5, 210, 2018, ISSN 2073-4344, DOI:10.3390/catal8050210, Impact Factor 3.465.
24. Cernea, M., Vasile, B.S., **Surdu, V.A.**, Trusca, R., Bartha, C., Craciun, F., Galassi, C. *Electric and magnetic properties of ferromagnetic/piezoelectric bilayered composite (2018) Journal of Materials Science, 53 (20), pp. 14160-14171.*

25. Colie, M., Mihaiescu, D.E., Istrati, D., **Surdu, A.V.**, Vasile, B., Stanica, N., Fudulu, A., Andronescu, E. Synthesis and characterization of a core-shell material using YBa₂Cu₃O_{7-δ} and cobalt ferrite nanoparticles (2018) *Revista de Chimie*, 69 (12), pp. 3345-3348.
26. Cernea, M., Vasile, B.S., **Surdu, V.A.**, Trusca, R., Bartha, C., Craciun, F., Galassi, C. Probing the dielectric, piezoelectric and magnetic behavior of CoFe₂O₄/BNT-BT0.08 composite thin film fabricated by sol-gel and spin-coating methods (2018) *Scientific Reports*, 8 (1), art. no. 17883
27. Cernea, M., Vasile, B.S., Ciuchi, I.V., **Surdu, V.A.**, Bartha, C., Iuga, A., Galizia, P., Galassi, C. Composite BNT-BT 0.08 /CoFe₂O₄ with core-shell nanostructure for piezoelectric and ferromagnetic applications (2019) *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, 240, pp. 7-15.
28. **Surdu, V.-A.**, Wang, Y., Bîrcă, A.C., Tanasă, E., Andronescu, E. Bismuth ferrite powders prepared by microwave-assisted hydrothermal method (2019) *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, 81 (4), pp. 3-14.
29. Dumitru, R., Ianculescu, A., Păcurariu, C., Lupa, L., Pop, A., Vasile, B., **Surdu, A.**, Manea, F. BiFeO₃-synthesis, characterization and its photocatalytic activity towards doxorubicin degradation from water (2019) *Ceramics International*, 45 (2), pp. 2789-2802.
30. Jinga, S.-I., Constantinoiu, I., **Surdu, V.-A.**, Iordache, F., Busuioc, C. Sol-gel-derived mineral scaffolds within SiO₂-P₂O₅-CaO-MgO-ZnO-CaF₂ system (2019) *Journal of Sol-Gel Science and Technology*, 90 (2), pp. 411-421.
31. Paduraru, A., Ghitulica, C., Trusca, R., **Surdu, V.A.**, Neacsu, I.A., Holban, A.M., Birca, A.C., Iordache, F., Vasile, B.S. Antimicrobial wound dressings as potential materials for skin tissue regeneration (2019) *Materials*, 12 (11), art. no. 1859
32. Mindru, I., Gingasu, D., Patron, L., Ianculescu, A., **Surdu, V.-A.**, Culita, D.C., Preda, S., Negut, C.-D., Oprea, O. A new approach: Synthesis of cobalt aluminate nanoparticles using tamarind fruit extract (2019) *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, 246, pp. 42-48.
33. Muntean, S.G., Nistor, M.A., Ianoș, R., Păcurariu, C., Căpraru, A., **Surdu, V.-A.** Combustion synthesis of Fe₃O₄/Ag/C nanocomposite and application for dyes removal from multicomponent systems (2019) *Applied Surface Science*, 481, pp. 825-837.
34. Andronescu, E., Predoi, D., Neacsu, I.A., Paduraru, A.V., Musuc, A.M., Trusca, R., Oprea, O., Tanasa, E., Vasile, O.R., Nicoara, A.I., **Surdu, A.V.**, Iordache, F., Birca, A.C., Iconaru, S.L., Vasile, B.S. Photoluminescent hydroxylapatite: Eu³⁺ doping effect on biological behavior (2019) *Nanomaterials*, 9 (9), art. no. 1187
35. **Surdu, V.-A.**, Truşcă, R.D., Vasile, B.Ş., Oprea, O.C., Tanasă, E., Diamandescu, L., Andronescu, E., Ianculescu, A.C. Bi_{1-x}Fe_xFeO₃ powders: Synthesis, characterization, magnetic and photoluminescence properties (2019) *Nanomaterials*, 9 (10), art. no. 1465
36. Tanasa, E., Zaharia, C., Radu, I.-C., **Surdu, V.-A.**, Vasile, B.S., Damian, C.-M., Andronescu, E. Novel nanocomposites based on functionalized magnetic nanoparticles and polyacrylamide: Preparation and complex characterization (2019) *Nanomaterials*, 9 (10), art. no. 1384
37. Stanciu, C.A., Pintilie, I., **Surdu, A.**, Truşcă, R., Vasile, B.S., Eftimie, M., Ianculescu, A.C. Influence of sintering strategy on the characteristics of sol-gel Ba_{1-x}Ce_xTi_{1-x/4}O₃ ceramics (2019) *Nanomaterials*, 9 (12), art. no. 1675

38. Stoleriu, S., Lungu, C., Ghitulica, C.D., **Surdu, A.**, Voicu, G., Cucuruz, A., Turculet, C.S., Ciocan, L.T. Influence of dopant nature on biological properties of ZnO thin-film coatings on Ti alloy substrate (2020) *Nanomaterials*, 10 (1), art. no. 129
39. Ene, V.L., Neacsu, I.A., Oprea, O., **Surdu, V.A.**, Trusca, R.D., Fikai, A., Andronescu, E. Single step synthesis of glutamic/tartaric acid-stabilised Fe₃O₄ nanoparticles for targeted delivery systems (2020) *Revista de Chimie*, 71 (2), pp. 230-238
40. Vasile, B.S., Birca, A.C., **Surdu, V.A.**, Neacsu, I.A., Nicoară, A.I. Ceramic composite materials obtained by electron-beam physical vapor deposition used as thermal barriers in the aerospace industry (2020) *Nanomaterials*, 10 (2), art. no. 370
41. Patru, R.E., Ganea, C.P., Stanciu, C.-A., **Surdu, V.-A.**, Trusca, R., Ianculescu, A.-C., Pintilie, I., Pintilie, L. (Ba,Sr)TiO₃ solid solutions sintered from sol-gel derived powders: An insight into the composition and temperature dependent dielectric behavior (2020) *Ceramics International*, 46 (4), pp. 4180-4190
42. Cernea, M., Radu, R., Amorín, H., Greculeasa, S.G., Vasile, B.S., **Surdu, V.A.**, Ganea, P., Trusca, R., Hattab, M., Galassi, C. Lead-free BNT–BT_{0.08}/cofe₂o₄ core–shell nanostructures with potential multifunctional applications (2020) *Nanomaterials*, 10 (4), art. no. 672
43. Cernea, M., Greculeasa, S.-G., Radu, R., Aldica, G., Ganea, P., **Surdu, V.A.**, Tanasa (Vasile), E., Cioangher, M., Iacob, N., Costescu, R.M. Magnetic properties of BaNixFe_{12-x}O₁₉ (x=0.0–1.0) hexaferrites, synthesized by citrate–gel auto-combustion and sintered by conventional and spark plasma methods (2020) *Journal of Alloys and Compounds*, 831, art. no. 154850
44. Dumitru, R., Negrea, S., Ianculescu, A., Păcurariu, C., Vasile, B. Ș., **Surdu, V.A.**, Manea, F. Lanthanum Ferrite Ceramic Powders: Synthesis, Characterization and Electrochemical Detection Application (2020) *Materials*, 13(9), art. No. 2061
45. Motoc, A. M., Valsan, S., Slobozeanu, A. E., Corban, M., Valerini, D., Prakasam, M., Botan, M., Dragut, V., Vasile, B.S., **Surdu, V.A.**, Trușcă, R., Grilli, M.L., Piticescu, R.R. Design, Fabrication, and Characterization of New Materials Based on Zirconia Doped With Mixed Rare Earth Oxides: Review and First Experimental Results. (2020) *Metals*, 10(6), art. No. 746
46. Curecheriu, L.-P., Harnagea, C., Buscaglia, M. T., Pallecchi, I., Vasile, B. S., **Surdu, V.-A.**, Ianculescu, A.-C., Pignolet, A., Rosei, F., Mitoseriu, L., Buscaglia, V., Four-fold multifunctional properties in self-organized layered ferrite. (2020) *Ceramics International*, 46(18), pp. 28621-28630, DOI:10.1016/j.ceramint.2020.08.021
47. Dumitru, R., Negra, S., Păcurariu, C., **Surdu, A.**, Ianculescu, A., Pop, A., Manea, F., CuBi₂O₄ Synthesis, Characterization, and Application in Sensitive Amperometric/Voltmetric Detection of Amoxicilin in Aqueous Solutions. (2021) *Nanomaterials*, 11(3), art. no. 740., DOI: 10.3390/nano11030740.
48. Gingasu, D., Mindru, I., Culita, D.C., Marinescu, G., Somacescu, S., Ianculescu, A., **Surdu, V.-A.**, Preda, S., Oprea, O., Vasile, B. S., Mentha piperita-mediated synthesis of cobalt aluminate nanoparticles and their photocatalytic activity. (2021) *Journal of Materials Science: Materials in Electronics*, 32, 11220-11231, DOI: 10.1007/s10854-021-05791-z.
49. Botea, M., Pintilie, I., **Surdu, V.-A.**, Stanciu, C.-A., Trușcă, R.-D., Vasile, B.Ș., Patru, R., Ianculescu, A.-C., Pintilie, L., Structural, functional properties and enhanced thermal stability of bulk graded (Ba,Sr)TiO₃ structures obtained by spark plasma sintering. (2021) *Journal of Materials Research and Technology*, 12, 2085-2103, DOI:10.1016/j.jmrt.2021.04.011.

50. Cernea, M., Secu, M., Radu, R., Ganea, P., **Surdu, V.-A.**, Trusca, R., Vasile, E. T., Secu, E. C., Structural, electrical properties and photoluminescence analyses of the terbium doped barium titanate. (2021) Journal of Alloys and Compounds, 878, 160380, DOI: 10.1016/j.jallcom.2021.160380.
51. Spoială, A., Ilie, C.-I., Truşcă, R.-D., Oprea, O.-C., **Surdu, V. A.**, Vasile, B. Ş., Fikai, A., Fikai, D., Andronescu, E., Diţu, L.-M., Zinc Oxide Nanoparticles for Water Purification (2021) Materials, 14(16), 4747, DOI:10.3390/ma14164747.
52. Dumitrescu, C. R., Neacşu, I. A., **Surdu, V. A.**, Nicoara, A. I., Iordache, F., Trusca, R., Ciocan, L. T., Fikai, A., Andronescu, E., Nano-Hydroxyapatite vs. Xenografts: Synthesis, Characterization, and In Vitro Behavior (2021), 11(9), 2289, DOI: 10.3390/nano11092289.
53. **Surdu, V.-A.**, Andronescu, E., THE ROLE OF CONFIGURATIONAL ENTROPY IN FLUORITE OXIDES SYSTEMS: A MINI-REVIEW (2021) Romanian Journal of Material, 51(3), 327-334.
54. Gingasu, D., Mindru, I., Ianculescu, A.-C., Diamandescu, L., Surdu, V.-A., Marinescu, G., Bartha, C., Preda, S., Popa, M., Chifiriuc, M. C., Soft Chemistry Synthesis and Characterization of $\text{CoFe}_{1.8}\text{RE}_{0.2}\text{O}_4$ ($\text{RE}^{3+} = \text{Tb}^{3+}, \text{Er}^{3+}$) Ferrite (2022) Magnetochemistry, 8, 12, DOI: 10.3390/magnetochemistry8020012.

Articole publicate în reviste de specialitate fără factor de impact

1. Colie, M., Mihaiescu, D.E., Istrati, D., **Surdu, A.**, Andronescu, E., *Microwave assisted, liquid phase synthesis of superconducting material*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, Volume 78, Issue 1, 121-128, 2016.
2. Gionea, A., Andronescu, E., Voicu, G., **Surdu, V.-A.**, Ilie, A., *ZrO₂-CaO ceramics - A comparative study*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, Volume 78, Issue 1, 3-12, 2016.
3. Băilă, D., Mocioiu, O. C., Truşcă, R., **Surdu, A.**, Zaharia, C., Bunea, M., *Biodegradation and mechanical behavior of sintered compacts of Co-Cr alloy powder doped with ZrO₂ used in dentistry*, Tehnički vjesnik, Volume 23, Issue 4, 1047-1057, 2016, ISSN 1330-3651, DOI:10.17559/TV-20150315185808.
4. **Surdu, V.-A.**, Jasim, A. L., Iftimie, S., *Morphological and structural properties of ZnO nanorods fabricated by microwave assisted hydrothermal method*, University Politehnica of Bucharest Scientific Bulletin – Series A – Applied Mathematics and Physics, Volume 79, Issue 2, 255-262, 2017, ISSN 1223-7027.
5. Vasile, B.S., Dobra, G., Iliev, S., Cotet, L., Neacsu, I. A., Nicoara, A. I., **Surdu, V. A.**, Boiangiu, A., Filipescu, L., Thermally Activated $\text{Al}(\text{OH})_3$: Part I – Morphology and Porosity Evaluation (2021) Ceramics, 4(2), 265-277, DOI: 10.3390/ceramics4020021
6. **Surdu, V.-A.**, Andronescu, E., Phase Formation in Heterovalent Equimolar Quinary Oxide Systems of $\text{ZrO}_2\text{-HfO}_2\text{-CeO}_2\text{-Nb}_2\text{O}_5\text{-RE}_2\text{O}_3$ Type ($\text{RE}=\text{Y}, \text{Yb}, \text{Nd}, \text{Gd}$) (2021), Ceramics, 4(3), 476-485, DOI: 10.3390/ceramics4030035.
7. Vasile, B.S., Dobra, G., Iliev, S., Cotet, L., Neacsu, I. A., **Surdu, V. A.**, Nicoara, A. I., Boiangiu, A., Filipescu, L., Thermally Activated $\text{Al}(\text{OH})_3$: Part II – Effect of Different Thermal Treatments (2021) Ceramics, 4(2), 265-277, DOI: 10.3390/ceramics4040040

(e) Publicații *in extenso*, apărute apărute în lucrări ale principalelor conferințe internaționale de specialitate

Articole publicate în Proceedings

1. Cristescu, R., Visan, A., Socol, G., **Surdu, A.V.**, Oprea, A.E., Grumezescu, A.M., Chifiriuc, M.C., Boehm, R.D., Yamaleyeva, D., Taylor, M., Narayan, R.J., Chrisey, D.B., *Antimicrobial activity of biopolymeric thin films containing flavonoid natural compounds and silver nanoparticles fabricated by MAPLE: A comparative study*, Applied Surface Science, Volume 374, 290-296, 2016, ISSN: 0169-4332, eISSN: 1873-5584, DOI:10.1016/j.apsusc.2015.11.252, WOS:000375937300045, Impact Factor 3,150
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(f) Alte lucrări și contribuții științifice sau, după caz, din domeniul creației artistice