

ARTICOLE 2020

1. Craciun, D.; Vasile, B. S.; Lambers, E.; Makino, H.; Craciun, V, Microstructural investigations of 800 keV Ar ions irradiated nanocrystalline ZrN thin films, SURFACE ENGINEERING, Vol. 36, Issue 3, Pp. 326-333, Doi: 10.1080/02670844.2019.1668677, Published: MAR 3 2020
2. Popa, C; Bratu, AM; Bacalum, M; Prepelita, P Application of the laser technology on the effect of Cd phytotoxicity in the detection of NH₃, C₂H₄, C₂H₅OH and CO₂ biomolecules at Triticum aestivum plantlets, SUSTAINABLE CHEMISTRY AND PHARMACY, Volume: 15, Article Number: 100208, DOI: 10.1016/j.scp.2019.100208, Published: MAR 2020
3. Irimiciuc, Stefan A.; Chertopalov, Sergii Craciun V; Novotny Michal; Lancok, Jan, Investigation of laser-produced plasma multistructuring by floating probe measurements and optical emission spectroscopy, PLASMA PROCESSES AND POLYMERS Volume:17 Issue: 11 Article Number: e2000136 Published: NOV 2020
4. Constantin, G ; Balan, E ; Voiculescu, I; Geanta, V ; Craciun, V Cutting Behavior of Al_{0.6}CoCrFeNi High Entropy Alloy, MATERIALS, Volume: 13 Issue: 18, Article Number: 4181, DOI: 10.3390/ma13184181, Published: SEP 2020
5. Hsu, SM; Ren, F; Batich, C; Clark, AE; Craciun, V ; Esquivel-Upshaw, JF, Dissolution activation energy of a fluorapatite glass-ceramic veneer for dental applications, MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, Volume: 111, Article Number: 110802, DOI: 10.1016/j.msec.2020.110802, Published: JUN 2020
6. Fares, C ; Elhassani, R; Partain, J; Hsu, SM; Craciun, V ; Ren, F; Esquivel-Upshaw, JF, Annealing and N-2 Plasma Treatment to Minimize Corrosion of SiC-Coated Glass-Ceramics, MATERIALS, Volume: 13, Issue: 10, Article Number: 2375, DOI: 10.3390/ma13102375, Published: MAY 2020
7. Ou, NC; Preradovic, K; Ferenczy, ET; Sparrow, CB; Germaine, IM; Jurca, T; Craciun, V; McElwee-White, L, Synthesis and Evaluation of Molybdenum Imido-Thiolato Complexes for the Aerosol-Assisted Chemical Vapor Deposition of Nitrogen-Doped Molybdenum Disulfide, ORGANOMETALLICS, , Volume: 39 Issue: 7 Pages: 956-966, DOI: 10.1021/acs.organomet.9b00705, Published: APR 13 2020
8. Abdelrehman, MHM; Craciun, V; Kroon, RE; Yousif, A; Ahmed, HAAS ; Swart, HC, Effect of background atmosphere and substrate temperature on SrO:Bi₃+(0.2 mol%) thin films produced using pulsed laser deposition with different lasers, PHYSICA B-CONDENSED MATTER, Volume: 581, Article Number: 411757, DOI: 10.1016/j.physb.2019.411757, Published: MAR 15 2020
9. Irimiciuc, SA; Hodoroaba, BC; Bulai, G; Gurlui, S; Craciun, V Multiple structure formation and molecule dynamics in transient plasmas generated by laser ablation of graphite, SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY, Volume: 165, Article Number: 105774, DOI: 10.1016/j.sab.2020.105774, Published: MAR 2020
10. Barber, ZH; Sanchez, F; Guilloux-Viry, M; Craciun, V, E-MRS spring meeting 2019, Symposium O: Synthesis, processing and characterization of nanoscale multi functional oxide films VII. May 27-31, 2019, Nice, France, THIN SOLID FILMS, Volume: 693, Article Number: 137713, DOI: 10.1016/j.tsf.2019.137713, Published: JAN 1 2020
11. Agop, M; Gavrilit, A; Grigoras-Ichim, C; Toma, S; Petrescu, TC; Irimiciuc, SA Toward Interactions through Information in a Multifractal Paradigm, ENTROPY, Volume: 22 Issue: 9, Article Number: 987, DOI: 10.3390/e22090987, Published: SEP 2020

12. Iancu, R; Irimiciuc, SA; Agop, M; Frasila, M; Paun, MA; Paun, VA; Paun, VP; Stratulat, S 5-Fluorouracil Release from Chitosan-Based Matrix. Experimental and Theoretical Aspects, MATERIALE PLASTICE, Volume: 57 Issue: 3 Pages: 180-188, DOI: 10.37358/MP.20.3.5392, Published: SEP 2020
13. Irimiciuc, SA; Saviuc, A; Tudose-Sandu-Ville, F; Toma, S; Nedeff, F; Rusu, CM; Agop, M, Non-Linear Behaviors of Transient Periodic Plasma Dynamics in a Multifractal Paradigm, SYMMETRY-BASEL, Volume: 12 Issue: 8, Article Number: 1356, DOI: 10.3390/sym12081356, Published: AUG 2020
14. Irimiciuc, S; Enescu, F; Bedeleian, H; Gurlui, S; Agop, M Space-and time-resolved optical investigations on ns-laser produced plasmas on various geological samples, SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY, Volume: 170, Article Number: 105904, DOI: 10.1016/j.sab.2020.105904, Published: AUG 2020
15. Iftime, MM; Irimiciuc, SA ; Agop, M; Angheloiu, M; Ochiuz, L; Vasincu, D, A Theoretical Multifractal Model for Assessing Urea Release from Chitosan Based Formulations, POLYMERS, Volume: 12 Issue: 6, Article Number: 1264, DOI: 10.3390/polym12061264, Published: JUN 2020
16. Ailincai, D; Dorobantu, AM; Dima, B; Irimiciuc, SA; Lupascu, C; Agop, M ; Olguta, O, Poly(vinyl alcohol boric acid)-Diclofenac Sodium Salt Drug Delivery Systems: Experimental and Theoretical Studies, JOURNAL OF IMMUNOLOGY RESEARCH, Volume: 2020, Article Number: 3124304, DOI: 10.1155/2020/3124304, Published: MAY 31 2020
17. Irimiciuc, SA; Nica, PE; Agop, M; Focsa, C Target properties - Plasma dynamics relationship in laser ablation of metals: Common trends for fs, ps and ns irradiation regimes, APPLIED SURFACE SCIENCE, Volume: 506, Article Number: 144926, DOI: 10.1016/j.apsusc.2019.144926, Published: MAR 15 2020
18. Placinta, C; Petrescu, TC; Ghizdovat, V; Irimiciuc, SA; Vasincu, D ; Agop, M; Paun, VP Polymer Dynamics Through Group Invariance of SL(2R) - Type in a Fractal Paradigm, MATERIALE PLASTICE, Volume: 57, Issue: 1 Pages: 167-174, DOI: 10.37358/mp.20.1.5323, Published: MAR 2020
19. Agop, M; Mihaila,; Nedeff, F; Irimiciuc, SA, Charged Particle Oscillations in Transient Plasmas Generated by Nanosecond Laser Ablation on Mg Target, SYMMETRY-BASEL, Volume: 12 Issue: 2, Article Number: 292, DOI: 10.3390/sym12020292, Published: FEB 2020
20. Irimiciuc, SA; Ianus, G; Agop, M; Crumpei Tanasa, I; Paun, MA ; Mandalian, TL; Crumpei, J; Paun, VA; Paun, VP Experimental and theoretical insight into formulations based on poly(vinyl alcohol boric acid) and diclofenac sodium salt, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS, Volume: 82 Issue: 3 Pages: 219-230, Published: 2020
21. Iftime, MM; Dobreci, DL; Irimiciuc, SA; Agop, M; Petrescu, T; Doroftei, B, A theoretical mathematical model for assessing diclofenac release from chitosan-based formulations, DRUG DELIVERY, Volume: 27 Issue: 1 Pages: 1125-1133, DOI: 10.1080/10717544.2020.1797242, Published: JAN 1 2020
22. Petrescu, TC; Paun, MA ; Mihai, P; Irimiciuc, SA; Paun, VA; Agop, M, On the heat transfer of holographic type in nanostructures, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS, Volume: 82 Issue: 2 Pages: 251-262, Published: 2020
23. Agop, M; Cimpoesu, N ; Gurlui, S; Irimiciuc, SA Investigations of Transient Plasma Generated by Laser Ablation of Hydroxyapatite during the Pulsed Laser Deposition Process, SYMMETRY-BASEL, Volume: 12 Issue: 1, Article Number: 132, DOI: 10.3390/sym12010132, Published: JAN 2020

24. Cimpoesu, N; Gurlui, S ; Bulai, G; Cimpoesu, R; Paun, VP; Irimiciuc, SA; Agop, M In-Situ Plasma Monitoring during the Pulsed Laser Deposition of Ni₆₀Ti₄₀ Thin Films, SYMMETRY-BASEL, Volume: 12 Issue: 1, Article Number: 109, DOI: 10.3390/sym12010109, Published: JAN 2020
25. Sava, BA; Filip, AV; Boroica, L; Eftimie, M; Dinca, MC; Soroaia, A; Trefilov, AMI; Filipescu, M; Brajnicov, S; Moldovan, A; Iordache, AM; Elisa, M , Dy³⁺ and Tb³⁺ co-doped boro-phosphate sol-gel vitreous thin films, JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, DOI: 10.1007/s10971-020-05427-4, Early access: OCT 2020
26. Elisa, M; Stefan, RC; Vasiliu, IC; Iordache, SM ; Iordache, AM; Sava, BA ; Boroica, L; Dinca, MC; Filip, AV; Galca, AC; Bartha, C; Iacob, N; Rusu, MI; Eftimie, M; Kuncser, V A New Zinc Phosphate-Tellurite Glass for Magneto-Optical Applications, NANOMATERIALS, Volume: 10 Issue: 9, Article Number: 1875, DOI: 10.3390/nano10091875, Published: SEP 2020
27. Buca, AM; Oane, M; Mihailescu, IN; Mahmood, MA; Sava, BA ; Ristoscu, C An Analytical Multiple-Temperature Model for Flash Laser Irradiation on Single-Layer Graphene, NANOMATERIALS, Volume: 10 Issue: 7, Article Number: 1319, DOI: 10.3390/nano10071319, Published: JUL 2020
28. Elisa, M; Boroica, L; Sava, BA; Iordache, SM; Iordache, AM ; Vasiliu, IC; Stefan, RC; Galca, AC; Kuncser, V; Eftimie, M, Synthesis and characterization of a titanium phosphate-tellurite glass for Faraday rotators, JOURNAL OF THE AMERICAN CERAMIC SOCIETY, Volume: 103 Issue: 7 Pages: 3978-3990 Special Issue: SI, DOI: 10.1111/jace.17071, Published: JUL 2020
29. Buca, AM; Oane, M; Mahmood, MA; Mihailescu, IN; Popescu, AC; Sava, BA; Ristoscu, C, Non-Fourier Estimate of Electron Temperature in Case of Femtosecond Laser Pulses Interaction with Metals, METALS, Volume: 10 Issue: 5, Article Number: 606, DOI: 10.3390/met10050606, Published: MAY 2020
30. Surmeli, SC,; Pana, OC; Sava, BA; Defta, N; Marin, PM; Nicolae, CG The use of clinoptilolite zeolite as a feed additive in juvenile carp feed (Cyprinus carpio), SCIENTIFIC PAPERS-SERIES D-ANIMAL SCIENCE, Volume: 63 Issue: 1 Pages: 495-501, Published: 2020