

Lista articole publicate, acceptate sau trimise în 2017:

1. *Chalcogenide thin films deposited by rfMS technique using a single quaternary target*, P. Prepelita, I. Stavarache, C. Negrila, F. Garoi, V. Craciun, **Applied Surface Science** **424**, 421-427, (2017). **JIF: 3.387. AIS: 0.589**
2. *Defect-related light absorption, photoluminescence and photocatalytic activity of SiO₂ with tubular morphology*, C. Anastasescu, M. Zaharescu, D. Angelescu, C. Munteanu, V. Bratan, T. Spataru, C. Negrila, N. Spataru, I. Balint, **Solar Energy Materials and Solar Cells** **159**, 325-335, (2017). **JIF: 4.784. AIS: 1.034**
3. *Mechanical, Corrosion and Biological Properties of Room-Temperature Sputtered Aluminum Nitride Films with Dissimilar Nanostructure*, C. Besleaga, V. Dumitru, L.M. Trinca, A.C. Popa, C.C. Negrila, L. Kolodziejczyk, C.R. Luculescu, G.C. Ionescu, R.G. Ripeanu, A. Vladescu, G.E. Stan, **Nanomaterials** **7**, 394 (2017). **JIF: 3.553. AIS: 0.797**
4. *Photo-sensitive Ge nanocrystal based films controlled by substrate deposition temperature*, I. Stavarache, V.A. Maraloiu, C. Negrila, P. Prepelita, I. Gruia, G. Iordache, **Semiconductor Science and Technology** **32**, 105003 (2017). **JIF: 2.305. AIS: 0.623**
5. *Photocatalytic abatement of trichlorethylene over Au and Pd-Au supported on TiO₂ by combined photomineralization/hydrodechlorination reactions under simulated solar irradiation*, R. State, F. Papa, T. Tabakova, I. Atkinson, C. Negrila, I. Balint, **Journal of Catalysis** **346**, 101-108 (2017). **JIF: 6.844. AIS: 1.622**
6. *Combined Electrochemical Impedance Spectroscopy, X-ray Photoelectron Spectroscopy, and Atomic Force Microscopy study of the distinct behavior of L-cysteine-thiolate formed at p- and n-GaAs(100) electrodes in Sodium Dodecyl Sulfate solution*, V. Lazarescu, M. Enache, M. Anastasescu, G. Dobrescu, C. Negrila, M.F. Lazarescu, **Electrochimica Acta** **225**, 551-558, (2017). **JIF: 4.798. AIS: 0.827**
7. *Enhanced UV- and visible-light driven photocatalytic performances and recycling properties of graphene oxide/ZnO hybrid layers*, E. Gyorgy, C. Logofatu, A.P. delPino, A. Datcu, O. Pascu, R. Ivan, **Ceramics International** **44**, 1826-1835 (2018). **JIF: 2.986. AIS: 0.460**
8. *Anodic deposition of nanostructured hematite film using agarose gel as template. Application in water splitting*, M. Sima, E. Vasile, A. Sima, C. Logofatu, **Electrochimica Acta** **258**, 1453-1462, (2017). **JIF: 4.798. AIS: 0.827**
9. *MAPLE synthesis of reduced graphene oxide/silver nanocomposite electrodes: Influence of target composition and gas ambience*, A. Queralto, A.P. delPino, C. Logofatu, A. Datcu, R. Amade, I. Alshaiikh, E. Bertran, I. Urzica, E. Gyorgy, **Journal of Alloys and Compounds** **726**, 1003-1013, (2017). **JIF: 3.133. AIS: 0.552**
10. *Single layer of Ge quantum dots in HfO₂ for floating gate memory capacitors*, A.M. Lepadatu, C. Palade, A. Slav, A.V. Maraloiu, S. Lazanu, T. Stoica, C. Logofatu, V.S. Teodorescu, M.L. Ciurea, **Nanotechnology** **28**, 175707 (2017). **JIF: 3.440. AIS: 0.913**
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15. *Lignin Fragmentation onto Multifunctional Fe₃O₄@Nb₂O₅@Co@Re Catalysts: The Role of the Composition and Deposition Route of Rhenium*, C. Opris, B. Cojocaru, N. Gheorghe, M. Tudorache, S.M. Coman, V.I. Parvulescu, B. Duraki, F. Krumeich, J.A. van Bokhoven, **ACS Catalysis** **7**, 3257-3267 (2017). **JIF: 10.614. AIS: 2.751**
16. *Dimensionality-Driven Metal-Insulator Transition in Spin-Orbit-Coupled SrIrO₃*, P. Schutz, D. Di Sante, L. Dudy, J. Gabel, M. Stubinger, M. Kamp, Y. Huang, M. Capone, M. A. Husanu, V. N. Strocov, S. Sangiovanni, M. Sing, R. Claessen, **Physical Review Letters** **119**, 256404 (2017), **JIF: 8.462. AIS: 3.266**
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18. *Discovery of Lorentz-violating type II Weyl fermions in LaAlGe*, S.Y. Xu, N. Alidoust, C.Q. Chang, H. Lu, B. Singh, I. Belopolski, D.S. Sanchez, X. Zhang, G. Bian, H. Zheng, M.A. Husanu, Y. Bian, S.M. Huang, C.H. Hsu, T.R. Chang, H.T. Jeng, A. Bansil, T. Neupert, V.N. Strocov, H. Lin, S.A. Jia, M.Z. Hasan, **Science Advances** **3**, e1603266 (2017), **JIF: 11.511. AIS: 5.413**
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38. *Polarization landscape effects in soft X-ray-induced surface chemical decomposition of lead zirco-titanate, evidenced by photoelectron spectromicroscopy*, L.E. Abramiuc, L.C. Tănase, A. Barinov, N.G. Apostol, C. Chirilă, L. Trupină, L. Pintilie, C.M. Teodorescu, **Nanoscale** **9**, 11055-11067 (2017). [JIF: 7.367](#). [AIS: 1.721](#)
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Lucrări acceptate:

47. *Selective catalytic oxidation reaction of p-xylene on manganese-iron mixed oxide materials* S. Nicolae, F. Neatu, M. Florea, **Comptes Rendus Chimie**, DOI: 10.1016/j.crci.2017.06.005 (2017). **JIF: 1.879. AIS: 0.308**

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Brevete:

Realizarea unei structuri fotoactive pe n-GaSb, R. Ghita, C. Negrila, C. Logofatu, M.D. Mihai, D. Predoi, M. Stoicu, Cerere brevet A00685/20.09.2017, OSIM

Ochelari cu metasuprafete plasmonice functionand ca analizor de stari de polarizare, C. Cotirlan-Simioniuc, A. Rizea, C. Marin, Cerere brevet A00167/20.03.2017, OSIM

Metoda si dispozitiv de masurare a proprietatilor optice ale straturilor subtiri depuse pe suprafete sau interfete cu reflexie totala interna, C. Cotirlan, M.F. Lazarescu, Brevet acordat prin Hotarare Nr. 6/141 din 29.11.2017, OSIM