

Lista de lucrări

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Articole științifice originale in extenso ca autor

Autori	Titlu	An	Jurnal	Vol	Issue	Nr. Art.	Pag start	Pag end
1 Voinea S., Balan A., Greene R.M., Anton L.L., Tirca R., Costache D., Dumitru V.T.	USING A REMOTE LAB FOR ELECTROLYSIS EXPERIMENT AS PART OF RENEWABLE ENERGY COURSES	2022	Romanian Reports in Physics		74	3	904	
2 Purcar V., Rădițoiu V., Nichita C., Bălan A., Rădițoiu A., Căprărescu S., Raduly F.M., Manea R., Șomoghi R., Nicolae C.-A., Raut I., Jecu L.	Preparation and characterization of silica nanoparticles and of silica-gentamicin nanostructured solution obtained by microwave-assisted synthesis	2021	Materials		14	8	2086	
3 Chilom C.G., Bălan A., Sandu N., Bălășoiu M., Stolyar S., Orelovich O.	Exploring the conformation and thermal stability of human serum albumin corona of ferrihydrite nanoparticles	2020	International Journal of Molecular Sciences		21	24	9734	1 11
4 Petcu C., Alexandrescu E., Bălan A., Tănase M.A., Cintează L.O.	Synthesis and characterisation of organo-modified silica nanostructured films for the water-repellent treatment of historic stone buildings	2020	Coatings		10	10	1010	1 16
5 Tiliakos A., Trefilov A.M.I., Tanasă E., Balan A., Stamatîn I.	Laser-induced graphene as the microporous layer in proton exchange membrane fuel cells	2020	Applied Surface Science		504		144096	
6 Abdullah M.Z., Al-Timimi M.H., Albanda W.H., Dumitru M., Balan A.E., Ceaus C., Tanasa E., Stamatîn I.	Structural and electrochemical properties of p3-na0.67 mn0.3 co0.7 o2 nanostructures prepared by citric-urea self-combustion route as cathode for sodium ion battery	2019	Digest Journal of Nanomaterials and Biostructures		14	4		1179 1193
7 Groza A., Serbanescu M., Butoi B., Stancu E., Stratițiu C., Burducea I., Balan A., Chiroasca A., Mihalcea B., Ganciu M.	Advances in spectral distribution assessment of laser accelerated protons using multilayer CR-39 detectors	2019	Applied Sciences (Switzerland)		9	10	2052	
8 Cosma E.F., Lascu A., Shova S., Zaltariov M.-F., Birdeanu M., Croitor L., Balan A., Anghel D., Stamatîn S.	X-ray structure elucidation of a pt-metalloporphyrin and its application for obtaining sensitive aunps-plasmonic hybrids capable of detecting triiodide anions	2019	International Journal of Molecular Sciences		20	3	710	
9 Tiliakos A., Trefilov A.M.I., Tanasă E., Balan A., Stamatîn I.	Space-Filling Supercapacitor Carpets: Highly scalable fractal architecture for energy storage	2018	Journal of Power Sources		384			145 155
10 Iordache A.-M., Cristescu R., Fagadar-Cosma E., Popescu A.C., Ciucu A.A., Iordache S.M., Balan A., Nichita C., Stamatîn I., Chrisey D.B.	Histamine detection using functionalized porphyrin as electrochemical mediator [Détection de l'histamine par l'utilisation d'une porphyrine fonctionnalisée comme médiateur chimique]	2018	Comptes Rendus Chimie		21	44989		270 276
11 Butoi B., Groza A., Dinca P., Balan A., Barna V.	Morphological and structural analysis of polyaniline and poly(o-anisidine) layers generated in a DC glow discharge plasma by using an oblique angle electrode deposition configuration	2017	Polymers		9	12	732	
12 Buleandra M., Rabinca A.A., Badea I.A., Balan A., Stamatîn I., Mihailciuc C., Ciucu A.A.	Voltammetric determination of dihydroxybenzene isomers using a disposable pencil graphite electrode modified with cobalt-phthalocyanine	2017	Microchimica Acta		184	5		1481 1488
13 Rabinca A.A., Buleandra M., Balan A., Stamatîn I., Ciucu A.A.	Electrochemical Behaviour and Rapid Determination of L-Dopa at Electrochemically Pretreated Screen Printed Carbon Electrode	2015	Electroanalysis		27	10		2275 2279
14 Sfeatcu R., Luculescu C., Ciobanu L., Balan A., Gatîn E., Patrascu I.	Dental enamel quality and black tooth stain: A new approach and explanation by using Raman and AFM techniques	2015	Particulate Science and Technology		33	4		429 435
15 Popescu M., Sava F., Lorinczi A., Velea A., Simandan I.D., Badica P., Burdusel M., Galca A.C., Matei E., Preda N., Secu M., Socol G., Jipa F., Zamfirescu M., Balan A.	Ceramics and amorphous thin films based on gallium sulphide doped by rare-earth sulphides	2015	Semiconductor Science and Technology		30	4	44001	
16 Buleandra M., Rabinca A.A., Mihailciuc C., Balan A., Nichita C., Stamatîn I., Ciucu A.A.	Screen-printed Prussian Blue modified electrode for simultaneous detection of hydroquinone and catechol	2014	Sensors and Actuators, B: Chemical		203			824 832
17 Purcar V., Cinteza O., Ghiurea M., Balan A., Caprarescu S., Donescu D.	Influence of hydrophobic characteristic of organo-modified precursor on wettability of silica film	2014	Bulletin of Materials Science		37	1		107 115
18 Iordache S., Cristescu R., Popescu A.C., Popescu C.E., Dorcioman G., Mihailciuc I.N., Ciucu A.A., Balan A., Stamatîn I., Fagadar-Cosma E., Chrisey D.B.	Functionalized porphyrin conjugate thin films deposited by matrix assisted pulsed laser evaporation	2013	Applied Surface Science		278			207 210
19 Cristescu R., Popescu C., Socol G., Iordache I., Mihailciuc I.N., Mihailciuc D.E., Grumezescu A.M., Balan A., Stamatîn I., Chifiriuc C., Bleotu C., Saviuc C., Popa M., Chrisey D.B.	Magnetic core/shell nanoparticle thin films deposited by MAPLE: Investigation by chemical, morphological and in vitro biological assays	2012	Applied Surface Science		258	23		9250 9255
20 Purcar V., Stamatîn I., Cinteza O., Petcu C., Rădițoiu V., Ghiurea M., Mîclaus T., Andronie A.	Fabrication of hydrophobic and antireflective coatings based on hybrid silica films by sol-gel process	2012	Surface and Coatings Technology		206	21		4449 4454

21	Florea-Spiroiu M., Bala D., Balan A., Nichita C., Stamatin I.	Alginate matrices prepared in sub and supercritical CO ₂	2012	Digest Journal of Nanomaterials and Biostructures	7	4	1549	1555
22	Cristescu R., Popescu C., Socol G., Visan A., Mihailescu I.N., Gittard S.D., Miller P.R., Martin T.N., Narayan R.J., Andronie A., Stamatin I., Chrisey D.B.	Deposition of antibacterial of poly(1,3-bis-(p-carboxyphenoxy propane)-co-(sebacic anhydride)) 20:80/gentamicin sulfate composite coatings by MAPLE	2011	Applied Surface Science	257	12	5287	5292
23	Cristescu R., Popescu C., Popescu A.C., Grigorescu S., Mihailescu I.N., Ciucu A.A., Iordache S., Andronie A., Stamatin I., Fagadar-Cosma E., Chrisey D.B.	MAPLE deposition of Mn(III) metalloporphyrin thin films: Structural, topographical and electrochemical investigations	2011	Applied Surface Science	257	12	5293	5297
24	Nichita C., Stamatin I., Balan-Andronie A., Zaulet M.	Antioxidant biohybrids with potential application in pharmaceutical area	2011	Digest Journal of Nanomaterials and Biostructures	6	4	1851	1858
25	Serban E.C., Banu N., Marinescu A.C., Trefilov A.M.I., Andronie-Balan A., Iordache S.M., Cucu A., Ceaus C., Cinteza O., Stamatin S., Stamatin I.	Catalyst FeNi supported on nanometric mezoporous oxide for PEMFC applications	2011	Optoelectronics and Advanced Materials, Rapid Communications	5	11	1248	1251
26	Banu N., Serban E.C., Marinescu A., Trefilov A.M.I., Andronie-Balan A., Cucu A., Iordache S., Ceaus C., Cinteza O., Stamatin I., Ciocanea A., Stamatin S.	Pt supported on nanosized oxides for electrocatalyst used in polymer electrolyte fuel cells	2011	Optoelectronics and Advanced Materials, Rapid Communications	5	11	1186	1189
27	Chilom C., Andronie A., Găzdaru D., Gămănuț R., Toma F., Feraru E., Popescu A.	Study of some physical properties of gmp kinase from haemophilus influenzae	2011	Digest Journal of Nanomaterials and Biostructures	6	2	747	753
28	Miroiu F.M., Socol G., Visan A., Stefan N., Craciun D., Craciun V., Dorcioman G., Mihailescu I.N., Sima L.E., Petrescu S.M., Andronie A., Stamatin I., Moga S., Ducu C.	Composite biocompatible hydroxyapatite-silk fibroin coatings for medical implants obtained by Matrix Assisted Pulsed Laser Evaporation	2010	Materials Science and Engineering B: Solid-State Materials for Advanced Technology	169	44929	151	158
29	Cristescu R., Popescu C., Popescu A.C., Mihailescu I.N., Ciucu A.A., Andronie A., Iordache S., Stamatin I., Fagadar-Cosma E., Chrisey D.B.	Functional porphyrin thin films deposited by matrix assisted pulsed laser evaporation	2010	Materials Science and Engineering B: Solid-State Materials for Advanced Technology	169	44929	106	110
30	Popescu M., Velea A., Sava F., Lorinczi A., Tomescu A., Simion C., Matei E., Socol G., Mihailescu I.N., Andronie A., Stamatin I.	Structure and properties of silver doped SnSe 2 and Ge 2Sb 2Te 5 thin films prepared by pulsed laser deposition	2010	Physica Status Solidi (A) Applications and Materials Science	207	3	516	520
31	Trefilov A.M.I., Cucu A., Iordache S., Serban E.C., Banu N., Marinescu A., Andronie A., Ceaus C., Stamatin S., Ceaus M., Emandi A., Nan G., Stamatin I.	Electrochemical activity of Nickel raney nanoparticles with applications in fuel cells	2010	Optoelectronics and Advanced Materials, Rapid Communications	4	11	1733	1735
32	Iordache S., Ducu A.-M., Cucu A., Andronie A., Stamatin S., Ceaus C., Popescu A., Fagadar-Cosma E., Cristescu R., Stamatin I.	The characterization of the immobilized active substrates on screen-printed electrodes designed for response to the biochemical agents	2010	Journal of Optoelectronics and Advanced Materials	12	9	1946	1951
33	Cristescu C., Andronie A., Iordache S.M., Cucu A., Stamatin S., Nan G., Taranu I., Constantinescu L.M., Stamatin I.	Detection of the neurotoxin, deoxyynivalenol, with PANI modified screen-printed electrode	2010	Journal of Optoelectronics and Advanced Materials	12	4	941	943
34	Stamatin S., Andronie A., Cristescu C., Iordache S.M., Cucu A., Luculescu C., Ceaus C., Stamatin I.	FeNi cathalyst for polymer electrolyte fuel cells	2010	Journal of Optoelectronics and Advanced Materials	12	4	937	940
35	Cristescu R., Popescu C., Popescu A.C., Grigorescu S., Duta L., Mihailescu I.N., Caraene G., Albulescu R., Albulescu L., Andronie A., Stamatin I., Ionescu A., Mihaiescu D., Buruiana T., Chrisey D.B.	Functionalized polyvinyl alcohol derivatives thin films for controlled drug release and targeting systems: MAPLE deposition and morphological, chemical and in vitro characterization	2009	Applied Surface Science	255	10	5600	5604
36	Cristescu R., Popescu C., Popescu A.C., Grigorescu S., Duta L., Mihailescu I.N., Andronie A., Stamatin I., Ionescu O.S., Mihaiescu D., Buruiana T., Chrisey D.B.	Laser processing of polyethylene glycol derivative and block copolymer thin films	2009	Applied Surface Science	255	10	5605	5610
37	Nan G., Stamatin I., Andronie A., Iordache S., Cristescu C., Cucu A., Baciu A., Rambu G.A.	Microcellular carbon from polyacrylonitrile precursors	2009	Journal of Optoelectronics and Advanced Materials	11	11	1788	1793
38	Cristescu C., Andronie A., Iordache S., Stamatin S.N., Constantinescu L.M., Rambu G.A., Iordoc M., Vasilescu-Mirea R., Iordache I., Stamatin I.	PANI - TiO ₂ nanostructures for fuel cell and sensor applications	2008	Journal of Optoelectronics and Advanced Materials	10	11	2985	2987

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Balan A.E., AL-Sharea A., Lavasani E.J., Tanasa E., Voinea S., Dobrica B., Stamatin I.	Paraffin-Multilayer Graphene Composite for Thermal Management in Electronics	2023	Materials	16	6	2310		
Balan A.E., Bita B.I., Vizireanu S., Dinescu G., Stamatin I., Trefilov A.M.I.	Carbon-Nanowall Microporous Layers for Proton Exchange Membrane Fuel Cell	2022	Membranes	12	11	1064		
Trefilov A.M.I., Balan A. (corresponding author), Stamatin I.	Hybrid proton-exchange membrane based on perfluorosulfonated polymers and resorcinol- formaldehyde hydrogel	2021	Polymers	13	23	4123		
Ionescu V., Balan A. (corresponding author), Trefilov A.M.I., Stamatin I.	Exergetic performance of a pem fuel cell with laser-induced graphene as the microporous layer	2021	Energies	14	19	6232		

5	Mateescu A.O., Mateescu G., Balan A. (corresponding author), Ceaus C., Stamatin I., Cristea D., Samoila C., Ursutiu D.	Stainless steel surface nitriding in open atmosphere cold plasma: Improved mechanical, corrosion and wear resistance properties	2021	Materials	14	17	4836	
6	Saeed F.R., Al-Timimi M.H.A.A., Al-Banda W.H.A., Abdullah M.Z., Stamatin I., Voinea S., Dobrica B., Balan A. (corresponding author)	Thermal properties of paraffin/ nano-magnetite-trevorite phase change materials	2018	Journal of Ovonic Research	14	5		371 379
7	Trefilov A.M.I., Tiliakos A., Serban E.C., Ceaus C., Iordache S.M., Voinea S., Balan A. (corresponding author)	Carbon xerogel as gas diffusion layer in PEM fuel cells	2017	International Journal of Hydrogen Energy	42	15		10448 10454
8	Saeed F.R., Serban E.C., Vasile E., Al-Timimi M.H.A.A., Al-Banda W.H.A., Abdullah M.Z.A., Stamatin I., Cucu A., Iordache S.M., Voinea S., Balan A. (corresponding author)	Nanomagnetite enhanced paraffin for thermal energy storage applications	2017	Digest Journal of Nanomaterials and Biostructures	12	2		273 280
9	Mateescu O.A., Balan A. (corresponding author), Mateescu G., Stamatin I., Samoila C., Ursutiu D., Nascov V.	Microstructure & corrosion resistance for WC-Ti-N layers deposited by reactive magnetron sputtering	2015	Digest Journal of Nanomaterials and Biostructures	10	2		437 443
10	Serban E.C., Balan A. (corresponding author), Iordache A.M., Cucu A., Ceaus C., Necula M., Ruxanda G., Bacu C., Mamut E., Stamatin I.	Urea/ hydrogen peroxide fuel cell	2014	Digest Journal of Nanomaterials and Biostructures	9	4		1647 1654
11	Andronie A. , Antohe S., Iordache S., Stamatin S., Cucu A., Ciocanea A., Emandi A., Ur E., Stamatin I.	Proton exchange membrane based on polyperfluorosulfonic acid modified with sulfonamide groups	2010	Optoelectronics and Advanced Materials, Rapid Communications	4	11		1807 1810
12	Andronie A. , Antohe S., Iordache S., Cucu A., Stamatin S., Ciocanea A., Emandi A., Nan G., Berlic C., Rimbu G.A., Stamatin I.	Study of the conduction mechanisms in poly-perfluorosulfonated membranes impregnated with intrinsic semiconducting polymers	2010	Journal of Optoelectronics and Advanced Materials	12	11		2288 2295