

Adriana Balan

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Preparation and Characterization of Silica Nanoparticles and of Silica-Gentamicin Nanostructured Solution Obtained by Microwave-Assisted Synthesis. <i>Materials</i> , 2021, 14, 2086.	2.9	29
2	Stainless Steel Surface Nitriding in Open Atmosphere Cold Plasma: Improved Mechanical, Corrosion and Wear Resistance Properties. <i>Materials</i> , 2021, 14, 4836.	2.9	6
3	Hybrid Proton-Exchange Membrane Based on Perfluorosulfonated Polymers and Resorcinol-Formaldehyde Hydrogel. <i>Polymers</i> , 2021, 13, 4123.	4.5	5
4	Laser-induced graphene as the microporous layer in proton exchange membrane fuel cells. <i>Applied Surface Science</i> , 2020, 504, 144096.	6.1	22
5	Exploring the Conformation and Thermal Stability of Human Serum Albumin Corona of Ferrihydrite Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9734.	4.1	11
6	Synthesis and Characterisation of Organo-Modified Silica Nanostructured Films for the Water-Repellent Treatment of Historic Stone Buildings. <i>Coatings</i> , 2020, 10, 1010.	2.6	7
7	Current - Voltage Variation and Voltage Stability at Constant Load for a PEMFC System with Different Bipolar Plate Flow Fields. , 2019, , .		1
8	Simplified Mathematical Model for Polarization Curve Validation and Experimental Performance Evaluation of a PEM Fuel Cell System. <i>Procedia Manufacturing</i> , 2019, 32, 810-819.	1.9	10
9	Exergy Analysis of a PEM Fuel Cell System with Different Bipolar Plate Flow Fields. , 2019, , .		2
10	Advances in Spectral Distribution Assessment of Laser Accelerated Protons using Multilayer CR-39 Detectors. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2052.	2.5	6
11	X-ray Structure Elucidation of a Pt-Metalloporphyrin and Its Application for Obtaining Sensitive AuNPs-Plasmonic Hybrids Capable of Detecting Triiodide Anions. <i>International Journal of Molecular Sciences</i> , 2019, 20, 710.	4.1	10
12	EXPERIMENTAL STUDY OF A PEMFC SYSTEM WITH DIFFERENT DIMENSIONS OF THE SERPENTINE TYPE CHANNELS FROM BIPOLAR PLATE FLOW FIELDS. <i>Mechanika</i> , 2019, 25, .	0.5	1
13	Space-Filling Supercapacitor Carpets: Highly scalable fractal architecture for energy storage. <i>Journal of Power Sources</i> , 2018, 384, 145-155.	7.8	19
14	Histamine detection using functionalized porphyrin as electrochemical mediator. <i>Comptes Rendus Chimie</i> , 2018, 21, 270-276.	0.5	11
15	Experimental investigation of cathode back-pressure effect on voltage oscillations in a PEM fuel cell system. , 2018, , .		0
16	Carbon xerogel as gas diffusion layer in PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 10448-10454.	7.1	16
17	Voltammetric determination of dihydroxybenzene isomers using a disposable pencil graphite electrode modified with cobalt-phthalocyanine. <i>Mikrochimica Acta</i> , 2017, 184, 1481-1488.	5.0	36
18	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. <i>Polymers</i> , 2017, 9, 732.	4.5	136

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19	Recovering Hydrogen Sulfide from Sulfurous Waters with PEM Fuel Cells. <i>Energy Procedia</i> , 2016, 85, 273-278.	1.8	7
20	Electrochemical Behaviour and Rapid Determination of L-Dopa at Electrochemically Pretreated Screen Printed Carbon Electrode. <i>Electroanalysis</i> , 2015, 27, 2275-2279.	2.9	14
21	Dental Enamel Quality and Black Tooth Stain: A New Approach and Explanation by using Raman and AFM Techniques. <i>Particulate Science and Technology</i> , 2015, 33, 429-435.	2.1	7
22	Ceramics and amorphous thin films based on gallium sulphide doped by rare-earth sulphides. <i>Semiconductor Science and Technology</i> , 2015, 30, 044001.	2.0	2
23	Screen-printed Prussian Blue modified electrode for simultaneous detection of hydroquinone and catechol. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 824-832.	7.8	63
24	Influence of hydrophobic characteristic of organo-modified precursor on wettability of silica film. <i>Bulletin of Materials Science</i> , 2014, 37, 107-115.	1.7	18
25	Functionalized porphyrin conjugate thin films deposited by matrix assisted pulsed laser evaporation. <i>Applied Surface Science</i> , 2013, 278, 207-210.	6.1	17
26	Fabrication of hydrophobic and antireflective coatings based on hybrid silica films by sol-gel process. <i>Surface and Coatings Technology</i> , 2012, 206, 4449-4454.	4.8	85
27	Magnetic core/shell nanoparticle thin films deposited by MAPLE: Investigation by chemical, morphological and in vitro biological assays. <i>Applied Surface Science</i> , 2012, 258, 9250-9255.	6.1	21
28	Deposition of antibacterial of poly(1,3-bis-(p-carboxyphenoxy propane)-co-(sebacic anhydride)) 20:80/gentamicin sulfate composite coatings by MAPLE. <i>Applied Surface Science</i> , 2011, 257, 5287-5292.	6.1	32
29	MAPLE deposition of Mn(III) metalloporphyrin thin films: Structural, topographical and electrochemical investigations. <i>Applied Surface Science</i> , 2011, 257, 5293-5297.	6.1	18
30	Composite biocompatible hydroxyapatite-silk fibroin coatings for medical implants obtained by Matrix Assisted Pulsed Laser Evaporation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 169, 151-158.	3.5	48
31	Functional porphyrin thin films deposited by matrix assisted pulsed laser evaporation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 169, 106-110.	3.5	17
32	Structure and properties of silver doped SnSe ₂ and Ge ₂ Sb ₂ Te ₅ thin films prepared by pulsed laser deposition. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 516-520.	1.8	21
33	Functionalized polyvinyl alcohol derivatives thin films for controlled drug release and targeting systems: MAPLE deposition and morphological, chemical and in vitro characterization. <i>Applied Surface Science</i> , 2009, 255, 5600-5604.	6.1	21
34	Laser processing of polyethylene glycol derivative and block copolymer thin films. <i>Applied Surface Science</i> , 2009, 255, 5605-5610.	6.1	11