

Adriana Balan

List of Publications by Year in descending order

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516710

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citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	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
7	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
8	Laser-induced graphene as the microporous layer in proton exchange membrane fuel cells. <i>Applied Surface Science</i> , 2020, 504, 144096.	6.1	22
9	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
10	Structure and properties of silver doped SnSe_2 and $\text{Ge}_2\text{Sb}_2\text{Te}_5$ thin films prepared by pulsed laser deposition. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 516-520.	1.8	21
11	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
12	Space-Filling Supercapacitor Carpets: Highly scalable fractal architecture for energy storage. <i>Journal of Power Sources</i> , 2018, 384, 145-155.	7.8	19
13	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
14	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
15	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
16	Functionalized porphyrin conjugate thin films deposited by matrix assisted pulsed laser evaporation. <i>Applied Surface Science</i> , 2013, 278, 207-210.	6.1	17
17	Carbon xerogel as gas diffusion layer in PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 10448-10454.	7.1	16
18	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

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19	Laser processing of polyethylene glycol derivative and block copolymer thin films. Applied Surface Science, 2009, 255, 5605-5610.	6.1	11
20	Histamine detection using functionalized porphyrin as electrochemical mediator. Comptes Rendus Chimie, 2018, 21, 270-276.	0.5	11
21	Exploring the Conformation and Thermal Stability of Human Serum Albumin Corona of Ferrihydrite Nanoparticles. International Journal of Molecular Sciences, 2020, 21, 9734.	4.1	11
22	Simplified Mathematical Model for Polarization Curve Validation and Experimental Performance Evaluation of a PEM Fuel Cell System. Procedia Manufacturing, 2019, 32, 810-819.	1.9	10
23	X-ray Structure Elucidation of a Pt-Metalloporphyrin and Its Application for Obtaining Sensitive AuNPs-Plasmonic Hybrids Capable of Detecting Triiodide Anions. International Journal of Molecular Sciences, 2019, 20, 710.	4.1	10
24	Dental Enamel Quality and Black Tooth Stain: A New Approach and Explanation by using Raman and AFM Techniques. Particulate Science and Technology, 2015, 33, 429-435.	2.1	7
25	Recovering Hydrogen Sulfide from Sulfurous Waters with PEM Fuel Cells. Energy Procedia, 2016, 85, 273-278.	1.8	7
26	Synthesis and Characterisation of Organo-Modified Silica Nanostructured Films for the Water-Repellent Treatment of Historic Stone Buildings. Coatings, 2020, 10, 1010.	2.6	7
27	Advances in Spectral Distribution Assessment of Laser Accelerated Protons using Multilayer CR-39 Detectors. Applied Sciences (Switzerland), 2019, 9, 2052.	2.5	6
28	Stainless Steel Surface Nitriding in Open Atmosphere Cold Plasma: Improved Mechanical, Corrosion and Wear Resistance Properties. Materials, 2021, 14, 4836.	2.9	6
29	Hybrid Proton-Exchange Membrane Based on Perfluorosulfonated Polymers and Resorcinol-Formaldehyde Hydrogel. Polymers, 2021, 13, 4123.	4.5	5
30	Ceramics and amorphous thin films based on gallium sulphide doped by rare-earth sulphides. Semiconductor Science and Technology, 2015, 30, 044001.	2.0	2
31	Exergy Analysis of a PEM Fuel Cell System with Different Bipolar Plate Flow Fields. , 2019, , .		2
32	Current - Voltage Variation and Voltage Stability at Constant Load for a PEMFC System with Different Bipolar Plate Flow Fields. , 2019, , .		1
33	EXPERIMENTAL STUDY OF A PEMFC SYSTEM WITH DIFFERENT DIMENSIONS OF THE SERPENTINE TYPE CHANNELS FROM BIPOLAR PLATE FLOW FIELDS. Mechanika, 2019, 25, .	0.5	1
34	Experimental investigation of cathode back-pressure effect on voltage oscillations in a PEM fuel cell system. , 2018, , .		0