Andrei Popescu

List of Publications by Year
in descending order

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45	671	471509 17	610901 24
papers	citations	h-index	g-index

45	45	45	872
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Laser-direct writing by two-photon polymerization of 3D honeycomb-like structures for bone regeneration. Biofabrication, 2018, 10, 025009.	7.1	40
2	Physical-chemical characterization and biological assessment of simple and lithium-doped biological-derived hydroxyapatite thin films for a new generation of metallic implants. Applied Surface Science, 2018, 439, 724-735.	6.1	32
3	Histamine detection using functionalized porphyrin as electrochemical mediator. Comptes Rendus Chimie, 2018, 21, 270-276.	0.5	11
4	Electrically responsive microstructured polypyrrole-polyurethane composites for stimulated osteogenesis. Applied Surface Science, 2018, 433, 166-176.	6.1	12
5	Comparative physical, chemical and biological assessment of simple and titanium-doped ovine dentine-derived hydroxyapatite coatings fabricated by pulsed laser deposition. Applied Surface Science, 2017, 413, 129-139.	6.1	55
6	Control of Porosity and Spatter in Laser Welding of Thick AlMg5 Parts Using High-Speed Imaging and Optical Microscopy. Metals, 2017, 7, 452.	2.3	15
7	An Experimental Study on Nano-Carbon Films as an Anti-Wear Protection for Drilling Tools. Coatings, 2017, 7, 228.	2.6	7
8	Laser Ablation Applied for Synthesis of Thin Films: Insights into Laser Deposition Methods. , 2016, , .		2
9	Thickness Influence on In Vitro Biocompatibility of Titanium Nitride Thin Films Synthesized by Pulsed Laser Deposition. Materials, 2016, 9, 38.	2.9	19
10	Investigation and in situ removal of spatter generated during laser ablation of aluminium composites. Applied Surface Science, 2016, 378, 102-113.	6.1	14
11	Fabrication of periodical surface structures by picosecond laser irradiation of carbon thin films: transformation of amorphous carbon in nanographite. Applied Surface Science, 2016, 390, 236-243.	6.1	4
12	The Role of Ambient Gas and Pressure on the Structuring of Hard Diamond-Like Carbon Films Synthesized by Pulsed Laser Deposition. Materials, 2015, 8, 3284-3305.	2.9	28
13	Hard TiC Films Grown by Pulsed Laser Deposition. Materials Today: Proceedings, 2015, 2, 3790-3796.	1.8	2
14	Deposition and surface modification of thin solid structures by high-intensity pulsed laser irradiation. , 2015, , 287-313.		1
15	Nitrogen-doped and gold-loaded TiO2 photocatalysts synthesized by sequential reactive pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2014, 117, 97-101.	2.3	6
16	Structure and enzymatic activity of laser immobilized ribonuclease A. Journal of Materials Science, 2014, 49, 4371-4378.	3.7	3
17	Nanoprofiles of TiO₂ films deposited by PLD using an evanescent light method. World Journal of Engineering, 2014, 11, 111-116.	1.6	3
18	Functionalized porphyrin conjugate thin films deposited by matrix assisted pulsed laser evaporation. Applied Surface Science, 2013, 278, 207-210.	6.1	17

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19	Multi-layer haemocompatible diamond-like carbon coatings obtained by combined radio frequency plasma enhanced chemical vapor deposition and magnetron sputtering. Journal of Materials Science: Materials in Medicine, 2013, 24, 2695-2707.	3.6	20
20	Influence of a hydrophobin underlayer on the structuring and antimicrobial properties of ZnO films. Journal of Materials Science, 2013, 48, 8329-8336.	3.7	2
21	Nanoprofiles evaluation of ZnO thin films by an evanescent light method. Microscopy Research and Technique, 2013, 76, 992-996.	2.2	2
22	Hydroxyapatite thin films synthesized by Pulsed Laser Deposition onto titanium mesh implants for cranioplasty applications. Proceedings of SPIE, 2013, , .	0.8	1
23	Measuring Nanolayer Profiles of Various Materials by Evanescent Light Technique. Journal of Nanoscience and Nanotechnology, 2012, 12, 2668-2671.	0.9	4
24	ZnO Thin Films Deposited on Textile Material Substrates for Biomedical Applications. NATO Science for Peace and Security Series A: Chemistry and Biology, 2012, , 207-210.	0.5	11
25	Pulsed Laser Processing of Functionalized Polysaccharides for Controlled Release Drug Delivery Systems. NATO Science for Peace and Security Series A: Chemistry and Biology, 2012, , 231-236.	0.5	8
26	Study of polyethylene nanolayers by evanescent light microscopy. Applied Physics A: Materials Science and Processing, 2011, 104, 997-1002.	2.3	1
27	MAPLE deposition of Mn(III) metalloporphyrin thin films: Structural, topographical and electrochemical investigations. Applied Surface Science, 2011, 257, 5293-5297.	6.1	18
28	Radical modification of the wetting behavior of textiles coated with ZnO thin films and nanoparticles when changing the ambient pressure in the pulsed laser deposition process. Journal of Applied Physics, 2011, 110, .	2.5	33
29	Analysis of indium zinc oxide thin films by laser-induced breakdown spectroscopy. Journal of Applied Physics, 2011, 110, .	2.5	16
30	Double layered nanostructured composite coatings with bioactive silicate glass and polymethylmetacrylate for biomimetic implant applications. Journal of Electroanalytical Chemistry, 2010, 648, 111-118.	3.8	25
31	Morphology of polyethylene nanolayers: a study by evanescent light microscopy. Journal of Materials Science, 2010, 45, 6332-6338.	3.7	3
32	Functional porphyrin thin films deposited by matrix assisted pulsed laser evaporation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 169, 106-110.	3.5	17
33	On the bioactivity of adherent bioglass thin films synthesized by magnetron sputtering techniques. Thin Solid Films, 2010, 518, 5955-5964.	1.8	29
34	Estimation of polyethylene nanothin layer morphology by differential evanescent light intensity imaging. Journal of Nanophotonics, 2010, 4, 041760.	1.0	5
35	Bioglass thin films for biomimetic implants. Applied Surface Science, 2009, 255, 5476-5479.	6.1	38
36	Biocompatible and bioactive nanostructured glass coatings synthesized by pulsed laser deposition: In vitro biological tests. Applied Surface Science, 2009, 255, 5486-5490.	6.1	20

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37	Functional polyethylene glycol derivatives nanostructured thin films synthesized by matrix-assisted pulsed laser evaporation. Applied Surface Science, 2009, 255, 9873-9876.	6.1	10
38	Functionalized polyvinyl alcohol derivatives thin films for controlled drug release and targeting systems: MAPLE deposition and morphological, chemical and in vitro characterization. Applied Surface Science, 2009, 255, 5600-5604.	6.1	21
39	Laser processing of polyethylene glycol derivative and block copolymer thin films. Applied Surface Science, 2009, 255, 5605-5610.	6.1	11
40	Nanostructured bioglass thin films synthesized by pulsed laser deposition: CSLM, FTIR investigations and in vitro biotests. Applied Surface Science, 2008, 255, 3056-3062.	6.1	23
41	Enhanced gas sensing of Au nanocluster-doped or -coated zinc oxide thin films. Journal of Applied Physics, 2007, 102, .	2.5	20
42	Synthesis of functionally graded bioactive glass-apatite multistructures on Ti substrates by pulsed laser deposition. Applied Surface Science, 2007, 254, 1279-1282.	6.1	44
43	Processing of poly(1,3-bis-(p-carboxyphenoxy propane)-co-(sebacic anhydride)) 20:80 (P(CPP:SA)20:80) by matrix-assisted pulsed laser evaporation for drug delivery systems. Applied Surface Science, 2007, 254, 1169-1173.	6.1	9
44	Nanocrystalline Er:YAG thin films prepared by pulsed laser deposition: An electron microscopy study. Applied Surface Science, 2007, 253, 8268-8272.	6.1	9
45	Characterization of Pulsed-Laser-Deposited Aln Films as a Gate Dielectric in Aln-Si Mis Structures. , 2006, , .		0