

Andrei Popescu

List of Publications by Year in descending order

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papers

671
citations

471509

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times ranked

872
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative physical, chemical and biological assessment of simple and titanium-doped ovine dentine-derived hydroxyapatite coatings fabricated by pulsed laser deposition. <i>Applied Surface Science</i> , 2017, 413, 129-139.	6.1	55
2	Synthesis of functionally graded bioactive glass-apatite multistructures on Ti substrates by pulsed laser deposition. <i>Applied Surface Science</i> , 2007, 254, 1279-1282.	6.1	44
3	Laser-direct writing by two-photon polymerization of 3D honeycomb-like structures for bone regeneration. <i>Biofabrication</i> , 2018, 10, 025009.	7.1	40
4	Bioglass thin films for biomimetic implants. <i>Applied Surface Science</i> , 2009, 255, 5476-5479.	6.1	38
5	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. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	33
6	Physical-chemical characterization and biological assessment of simple and lithium-doped biological-derived hydroxyapatite thin films for a new generation of metallic implants. <i>Applied Surface Science</i> , 2018, 439, 724-735.	6.1	32
7	On the bioactivity of adherent bioglass thin films synthesized by magnetron sputtering techniques. <i>Thin Solid Films</i> , 2010, 518, 5955-5964.	1.8	29
8	The Role of Ambient Gas and Pressure on the Structuring of Hard Diamond-Like Carbon Films Synthesized by Pulsed Laser Deposition. <i>Materials</i> , 2015, 8, 3284-3305.	2.9	28
9	Double layered nanostructured composite coatings with bioactive silicate glass and polymethylmetacrylate for biomimetic implant applications. <i>Journal of Electroanalytical Chemistry</i> , 2010, 648, 111-118.	3.8	25
10	Nanostructured bioglass thin films synthesized by pulsed laser deposition: CSLM, FTIR investigations and in vitro biotests. <i>Applied Surface Science</i> , 2008, 255, 3056-3062.	6.1	23
11	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
12	Enhanced gas sensing of Au nanocluster-doped or -coated zinc oxide thin films. <i>Journal of Applied Physics</i> , 2007, 102, .	2.5	20
13	Biocompatible and bioactive nanostructured glass coatings synthesized by pulsed laser deposition: In vitro biological tests. <i>Applied Surface Science</i> , 2009, 255, 5486-5490.	6.1	20
14	Multi-layer haemocompatible diamond-like carbon coatings obtained by combined radio frequency plasma enhanced chemical vapor deposition and magnetron sputtering. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 2695-2707.	3.6	20
15	Thickness Influence on In Vitro Biocompatibility of Titanium Nitride Thin Films Synthesized by Pulsed Laser Deposition. <i>Materials</i> , 2016, 9, 38.	2.9	19
16	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
17	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
18	Functionalized porphyrin conjugate thin films deposited by matrix assisted pulsed laser evaporation. <i>Applied Surface Science</i> , 2013, 278, 207-210.	6.1	17

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19	Analysis of indium zinc oxide thin films by laser-induced breakdown spectroscopy. Journal of Applied Physics, 2011, 110, .	2.5	16
20	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
21	Investigation and in situ removal of spatter generated during laser ablation of aluminium composites. Applied Surface Science, 2016, 378, 102-113.	6.1	14
22	Electrically responsive microstructured polypyrrole-polyurethane composites for stimulated osteogenesis. Applied Surface Science, 2018, 433, 166-176.	6.1	12
23	Laser processing of polyethylene glycol derivative and block copolymer thin films. Applied Surface Science, 2009, 255, 5605-5610.	6.1	11
24	Histamine detection using functionalized porphyrin as electrochemical mediator. Comptes Rendus Chimie, 2018, 21, 270-276.	0.5	11
25	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
26	Functional polyethylene glycol derivatives nanostructured thin films synthesized by matrix-assisted pulsed laser evaporation. Applied Surface Science, 2009, 255, 9873-9876.	6.1	10
27	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
28	Nanocrystalline Er:YAG thin films prepared by pulsed laser deposition: An electron microscopy study. Applied Surface Science, 2007, 253, 8268-8272.	6.1	9
29	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
30	An Experimental Study on Nano-Carbon Films as an Anti-Wear Protection for Drilling Tools. Coatings, 2017, 7, 228.	2.6	7
31	Nitrogen-doped and gold-loaded TiO ₂ photocatalysts synthesized by sequential reactive pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2014, 117, 97-101.	2.3	6
32	Estimation of polyethylene nanothin layer morphology by differential evanescent light intensity imaging. Journal of Nanophotonics, 2010, 4, 041760.	1.0	5
33	Measuring Nanolayer Profiles of Various Materials by Evanescent Light Technique. Journal of Nanoscience and Nanotechnology, 2012, 12, 2668-2671.	0.9	4
34	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
35	Morphology of polyethylene nanolayers: a study by evanescent light microscopy. Journal of Materials Science, 2010, 45, 6332-6338.	3.7	3
36	Structure and enzymatic activity of laser immobilized ribonuclease A. Journal of Materials Science, 2014, 49, 4371-4378.	3.7	3

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37	Nanoprofiles of TiO ₂ films deposited by PLD using an evanescent light method. World Journal of Engineering, 2014, 11, 111-116.	1.6	3
38	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
39	Nanoprofiles evaluation of ZnO thin films by an evanescent light method. Microscopy Research and Technique, 2013, 76, 992-996.	2.2	2
40	Hard TiC Films Grown by Pulsed Laser Deposition. Materials Today: Proceedings, 2015, 2, 3790-3796.	1.8	2
41	Laser Ablation Applied for Synthesis of Thin Films: Insights into Laser Deposition Methods. , 2016, , .		2
42	Study of polyethylene nanolayers by evanescent light microscopy. Applied Physics A: Materials Science and Processing, 2011, 104, 997-1002.	2.3	1
43	Hydroxyapatite thin films synthesized by Pulsed Laser Deposition onto titanium mesh implants for cranioplasty applications. Proceedings of SPIE, 2013, , .	0.8	1
44	Deposition and surface modification of thin solid structures by high-intensity pulsed laser irradiation. , 2015, , 287-313.		1
45	Characterization of Pulsed-Laser-Deposited Aln Films as a Gate Dielectric in Aln-Si Mis Structures. , 2006, , .		0