

Antoniu Moldovan

List of Publications by Year in descending order

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83
papers

1,158
citations

361045

20
h-index

476904

29
g-index

83
all docs

83
docs citations

83
times ranked

1331
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and characterization of titanium oxy-nitride thin films. Applied Surface Science, 2007, 253, 8210-8214.	3.1	79
2	Laser deposition of fibrinogen blood proteins thin films by matrix assisted pulsed laser evaporation. Applied Surface Science, 2005, 248, 422-427.	3.1	48
3	Thin films of polymer blends for controlled drug delivery deposited by matrix-assisted pulsed laser evaporation. Applied Physics Letters, 2010, 96, 243702.	1.5	41
4	Microfabrication of polystyrene microbead arrays by laser induced forward transfer. Journal of Applied Physics, 2010, 108, .	1.1	39
5	Functionalized polysiloxane thin films deposited by matrix-assisted pulsed laser evaporation for advanced chemical sensor applications. Applied Surface Science, 2006, 252, 4871-4876.	3.1	37
6	High-k dielectric oxides obtained by PLD as solution for gates dielectric in MOS devices. Applied Surface Science, 2007, 253, 8184-8191.	3.1	36
7	Crystallization study of sol-gel un-doped and Pd-doped TiO ₂ materials. Journal of Physics and Chemistry of Solids, 2008, 69, 2548-2554.	1.9	35
8	Polycaprolactone biopolymer thin films obtained by matrix assisted pulsed laser evaporation. Applied Surface Science, 2007, 253, 6476-6479.	3.1	34
9	Biocompatible polymeric implants for controlled drug delivery produced by MAPLE. Applied Surface Science, 2011, 257, 10780-10788.	3.1	32
10	Matrix assisted pulsed laser evaporation processing of triacetate-pullulan polysaccharide thin films for drug delivery systems. Applied Surface Science, 2006, 252, 4647-4651.	3.1	31
11	Morphological and structural studies of WO _x thin films deposited by laser ablation. Applied Surface Science, 2007, 253, 8258-8262.	3.1	31
12	Matrix assisted pulsed laser evaporation of zinc benzoate for ZnO thin films and non-isothermal decomposition kinetics. Thermochimica Acta, 2010, 498, 81-91.	1.2	30
13	Impact of thickness variation on structural, dielectric and piezoelectric properties of (Ba,Ca)(Ti,Zr)O ₃ epitaxial thin films. Scientific Reports, 2018, 8, 2056.	1.6	28
14	TiN/ZrN heterostructures deposition and characterisation. Surface and Coatings Technology, 2006, 200, 6505-6510.	2.2	27
15	Pulsed laser deposition of perovskite relaxor ferroelectric thin films. Applied Surface Science, 2006, 252, 4553-4557.	3.1	25
16	Thin films of polyaniline deposited by MAPLE technique. Applied Surface Science, 2007, 253, 7711-7714.	3.1	24
17	High Permittivity (1-x)Ba(Zr _{0.2} Ti _{0.8})O ₃ -x(Ba _{0.7} Ca _{0.3})TiO ₃ (x = 0.45) Epitaxial Thin Films with Nanoscale Phase Fluctuations. ACS Applied Materials & Interfaces, 2015, 7, 23984-23992.	4.0	23
18	Thermal, morphological and optical investigations of Cu(DAB) ₂ thin films produced by matrix-assisted pulsed laser evaporation and laser-induced forward transfer for sensor development. Thin Solid Films, 2012, 520, 3904-3909.	0.8	22

#	ARTICLE	IF	CITATIONS
19	Induced Hydrophobicity and In Vitro Preliminary Osteoblast Response of Polyvinylidene Fluoride (PVDF) Coatings Obtained via MAPLE Deposition and Subsequent Thermal Treatment. <i>Molecules</i> , 2020, 25, 582.	1.7	22
20	Structural and piezoelectric properties of pulsed laser deposited ZnO thin films. <i>Superlattices and Microstructures</i> , 2006, 39, 366-375.	1.4	20
21	Nickel-titanium alloy: Cytotoxicity evaluation on microorganism culture. <i>Applied Surface Science</i> , 2006, 252, 4619-4624.	3.1	19
22	p-type ZnO thin films grown by RF plasma beam assisted Pulsed Laser Deposition. <i>Superlattices and Microstructures</i> , 2007, 42, 79-84.	1.4	18
23	Structural and optical properties of the SiO ₂ -P ₂ O ₅ films obtained by sol-gel method. <i>Thin Solid Films</i> , 2007, 515, 6601-6605.	0.8	18
24	Thin films of NdFeB deposited by PLD technique. <i>Applied Surface Science</i> , 2007, 253, 8192-8196.	3.1	18
25	MAPLE deposition of PLGA:PEG films for controlled drug delivery: Influence of PEG molecular weight. <i>Applied Surface Science</i> , 2012, 258, 9302-9308.	3.1	18
26	MAPLE Assembled Acetylcholinesterase-Polyethylenimine Hybrid and Multilayered Interfaces for Toxic Gases Detection. <i>Sensors</i> , 2018, 18, 4265.	2.1	18
27	Thin films of polymer blends deposited by matrix-assisted pulsed laser evaporation: Effects of blending ratios. <i>Applied Surface Science</i> , 2011, 257, 5259-5264.	3.1	16
28	A nanoscale continuous transition from the monoclinic to ferroelectric orthorhombic phase inside HfO ₂ nanocrystals stabilized by HfO ₂ capping and self-controlled Ge doping. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12353-12366.	2.7	16
29	Laser deposition of cryoglobulin blood proteins thin films by matrix assisted pulsed laser evaporation. <i>Applied Surface Science</i> , 2006, 252, 4652-4655.	3.1	15
30	SiO _x -P ₂ O ₅ films-promising components in photonic structure. <i>Optical and Quantum Electronics</i> , 2007, 39, 511-521.	1.5	15
31	3D Superparamagnetic Scaffolds for Bone Mineralization under Static Magnetic Field Stimulation. <i>Materials</i> , 2019, 12, 2834.	1.3	15
32	Structural and electrical characterization of PLZT 22/20/80 relaxor films obtained by PLD and RF-PLD. <i>Applied Surface Science</i> , 2005, 248, 329-333.	3.1	14
33	Matrix assisted pulsed laser evaporation of poly(D,L-lactide) thin films for controlled-release drug systems. <i>Applied Surface Science</i> , 2007, 253, 7702-7706.	3.1	14
34	Rolling dopant and strain in Y-doped BiFeO ₃ epitaxial thin films for photoelectrochemical water splitting. <i>Scientific Reports</i> , 2018, 8, 15826.	1.6	14
35	Pulsed laser deposition of doped skutterudite thin films. <i>Applied Surface Science</i> , 2007, 253, 8097-8101.	3.1	13
36	Polyisobutylene Thin Films Obtained by Matrix Assisted Pulsed Laser Evaporation for Sensors Applications. <i>Sensor Letters</i> , 2010, 8, 502-506.	0.4	13

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37	Processing and characterization of ferroelectric thin films obtained by pulsed laser deposition. <i>Journal of the European Ceramic Society</i> , 2005, 25, 2299-2303.	2.8	12
38	AFM and complementary XRD measurements of in situ grown YBCO films obtained by pulsed laser deposition. <i>Applied Surface Science</i> , 2007, 253, 8179-8183.	3.1	12
39	Specificity of defects induced in silicon by RF-plasma hydrogenation. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 777-785.	1.1	12
40	Physical properties of the ferroelectric capacitors based on Al-doped HfO ₂ grown via Atomic Layer Deposition on Si. <i>Applied Surface Science</i> , 2019, 483, 324-333.	3.1	12
41	Ferroelectric (Na _{1/2} Bi _{1/2})TiO ₃ -BaTiO ₃ thin films obtained by pulsed laser deposition. <i>European Physical Journal Special Topics</i> , 2005, 128, 77-80.	0.2	10
42	Lead-free ferroelectric thin films obtained by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 101, 747-751.	1.1	10
43	Dermal cells distribution on laser-structured ormosils. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013, 7, 129-138.	1.3	10
44	Antibacterial polymeric coatings grown by matrix assisted pulsed laser evaporation. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 895-902.	1.1	10
45	Scanning polarization force microscopy investigation of contact angle and disjoining pressure of glycerol and sulfuric acid on highly oriented pyrolytic graphite and aluminum. <i>EPJ Applied Physics</i> , 2013, 64, 31302.	0.3	10
46	Thickness Effect on Some Physical Properties of RF Sputtered ZnTe Thin Films for Potential Photovoltaic Applications. <i>Nanomaterials</i> , 2021, 11, 2286.	1.9	10
47	Structuring by field enhancement of glass, Ag, Au, and Co thin films using short pulse laser ablation. <i>Journal of Applied Physics</i> , 2009, 106, 114908.	1.1	9
48	Wetting properties of glycerol on silicon, native SiO ₂ , and bulk SiO ₂ by scanning polarization force microscopy. <i>Journal of Adhesion Science and Technology</i> , 2014, 28, 1277-1287.	1.4	9
49	Properties of La and Nb-modified PZT thin films grown by radio frequency assisted pulsed laser deposition. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005, 118, 39-43.	1.7	8
50	Matrix assisted pulsed laser evaporation of pullulan tailor-made biomaterial thin films for controlled drug delivery systems. <i>Journal of Physics: Conference Series</i> , 2007, 59, 144-149.	0.3	8
51	Characterization of polymer thin films obtained by pulsed laser deposition. <i>Applied Surface Science</i> , 2011, 257, 5303-5307.	3.1	8
52	In vitro behavior of human mesenchymal stem cells on poly(N-isopropylacrylamide) based biointerfaces obtained by matrix assisted pulsed laser evaporation. <i>Applied Surface Science</i> , 2018, 440, 712-724.	3.1	7
53	Thin films of advanced oxidic materials obtained by pulsed laser deposition. <i>Applied Surface Science</i> , 2007, 253, 8278-8281.	3.1	6
54	Graphene bandgap induced by ferroelectric HfO ₂ doped with Zr (HfZrO). <i>Nanotechnology</i> , 2020, 31, 275202.	1.3	6

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55	High temperature growth of InN on various substrates by plasma-assisted pulsed laser deposition. Applied Surface Science, 2011, 257, 5312-5314.	3.1	5
56	Modification of W surfaces by exposure to hollow cathode plasmas. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	5
57	Multilayer protective coatings obtained by pulsed laser deposition. Applied Surface Science, 2019, 479, 1124-1131.	3.1	5
58	Laser Direct Writing via Two-Photon Polymerization of 3D Hierarchical Structures with Cells-Anti-adhesive Properties. International Journal of Molecular Sciences, 2021, 22, 5653.	1.8	5
59	Monitoring nitinol alloy surface reactions for biofouling studies. Applied Surface Science, 2007, 253, 7719-7723.	3.1	4
60	Electro-optic and dielectric properties of epitaxial $Pb_{1-x}La_xZr_{0.2}Ti_{0.8}O_3$ thin films obtained by pulsed laser deposition. Thin Solid Films, 2013, 541, 127-130.	0.8	4
61	Wetting Properties at Nanometer Scale. , 0, , .		4
62	Growth of ZnO:Al thin films onto different substrates. , 2010, , .		3
63	Properties of composite a-C:H/metal layers deposited by combined RF PECVD/magnetron sputtering techniques. Thin Solid Films, 2011, 519, 4054-4058.	0.8	3
64	MAPLE deposited polymeric blends coatings for controlled drug delivery. , 2012, , .		3
65	Dy ³⁺ and Tb ³⁺ co-doped boro-phosphate sol-gel vitreous thin films. Journal of Sol-Gel Science and Technology, 2021, 97, 39-47.	1.1	3
66	New Poly(N-isopropylacrylamide-butylacrylate) Copolymer Biointerfaces and Their Characteristic Influence on Cell Behavior In Vitro. International Journal of Molecular Sciences, 2022, 23, 3988.	1.8	3
67	Oxygen-vacancy induced ferroelectricity in nitrogen-doped nickel oxide. Journal of Applied Physics, 2022, 131, 164304.	1.1	3
68	Single-pass magnetic force microscopy technique, with topography feedback based on scanning polarization force microscopy. Applied Surface Science, 2022, 597, 153747.	3.1	3
69	<title>Thin films of NdFeB deposited by PLD technique</title>. , 2007, , .		2
70	Skin Layer Defects in Si by Optimized Treatment in Hydrogen RF Plasma. Plasma Processes and Polymers, 2010, 7, 986-991.	1.6	2
71	Proton μ -PIXE mapping, AFM imaging and size statistics of mineral granules in a dental composite. X-Ray Spectrometry, 2010, 39, 208-215.	0.9	2
72	MAPLE deposition of PEG:PLGA thin films. Applied Physics A: Materials Science and Processing, 2012, 106, 197-205.	1.1	2

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73	Multiferroic (Nd,Fe)-doped PbTiO ₃ thin films obtained by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	2
74	Piezoelectric Hybrid Heterostructures PVDF/(Ba,Ca)(Zr,Ti)O ₃ Obtained by Laser Techniques. Coatings, 2020, 10, 1155.	1.2	2
75	In Vitro Effect of Replicated Porous Polymeric Nano-MicroStructured Biointerfaces Characteristics on Macrophages Behavior. Nanomaterials, 2021, 11, 1913.	1.9	2
76	Laser Direct Writing of Dual-Scale 3D Structures for Cell Repelling at High Cellular Density. International Journal of Molecular Sciences, 2022, 23, 3247.	1.8	2
77	Optical, structural and morphological characterization of CdS-doped sol-gel silico-phosphate films. , 2015, , .		1
78	Tailored biodegradable triblock copolymer coatings obtained by MAPLE: a parametric study. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	1
79	<title>New aspects in laser ablation process of the YBCO thin films</title>. , 2004, 5581, 472.		0
80	Effects of layer-by-layer deposition on the structural and optical characteristics of thin films. Proceedings of SPIE, 2009, , .	0.8	0
81	Single pulse near field study on a Co(3 nm)/Cu(6 nm)/Co(20 nm) multilayer structure by using a femtosecond laser. Applied Physics A: Materials Science and Processing, 2011, 104, 839-843.	1.1	0
82	Laser processing of nanostructures: enhancing functional properties of lead-free perovskite nanostructures through chemical pressure and epitaxial strain. , 2019, , 113-152.		0
83	Influence of Laser-Designed Microstructure Density on Interface Characteristics and on Preliminary Responses of Epithelial Cells. Applied Sciences (Switzerland), 2020, 10, 6299.	1.3	0