

Emanuel Axente

List of Publications by Year in descending order

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82
papers

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citations

257101

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82
all docs

82
docs citations

82
times ranked

1997
citing authors

#	ARTICLE	IF	CITATIONS
1	Special Issue "Pulsed Laser Deposition of Thin Films: Recent Advances and Challenge", Coatings, 2022, 12, 368.	1.2	2
2	Laser Coatings via State-of-the-Art Additive Manufacturing: A Review. Coatings, 2021, 11, 296.	1.2	18
3	Lab-on-a-Chip Platforms as Tools for Drug Screening in Neuropathologies Associated with Blood-Brain Barrier Alterations. Biomolecules, 2021, 11, 916.	1.8	21
4	Laser-assisted synthesis of carbon coatings with cobalt oxide nanoparticles embedded in gradient of composition and sizes. Surface and Coatings Technology, 2021, 419, 127301.	2.2	10
5	Measurement error due to self-absorption in calibration-free laser-induced breakdown spectroscopy. Analytica Chimica Acta, 2021, 1185, 339070.	2.6	12
6	In-depth analyses of p-type silicon solar cells: A comparison between commercial compact and laboratory LIBS systems. Optik, 2021, 247, 168038.	1.4	3
7	Composite Drug Delivery System Based on Amorphous Calcium Phosphate-Chitosan: An Efficient Antimicrobial Platform for Extended Release of Tetracycline. Pharmaceutics, 2021, 13, 1659.	2.0	5
8	Picosecond Laser Processing of Photosensitive Glass for Generation of Biologically Relevant Microenvironments. Applied Sciences (Switzerland), 2020, 10, 8947.	1.3	5
9	Biomimetic Coatings Obtained by Combinatorial Laser Technologies. Coatings, 2020, 10, 463.	1.2	7
10	Functional Bioglass-Biopolymer Double Nanostructure for Natural Antimicrobial Drug Extracts Delivery. Nanomaterials, 2020, 10, 385.	1.9	15
11	Functionalized Graphene Oxide Thin Films for Anti-tumor Drug Delivery to Melanoma Cells. Frontiers in Chemistry, 2020, 8, 184.	1.8	22
12	Biomimetic Nanostructures with Compositional Gradient Grown by Combinatorial Matrix-Assisted Pulsed Laser Evaporation for Tissue Engineering. Current Medicinal Chemistry, 2020, 27, 903-918.	1.2	5
13	Analysis of Multi-elemental Thin Films via Calibration-Free Laser-Induced Breakdown Spectroscopy. Analytical Chemistry, 2019, 91, 2544-2550.	3.2	36
14	Gradient multifunctional biopolymer thin film assemblies synthesized by combinatorial MAPLE. Applied Surface Science, 2019, 466, 628-636.	3.1	12
15	Evaluation of pressure in a plasma produced by laser ablation of steel. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 143, 63-70.	1.5	18
16	Local thermodynamic equilibrium in a laser-induced plasma evidenced by blackbody radiation. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 144, 82-86.	1.5	20
17	New bio-active, antimicrobial and adherent coatings of nanostructured carbon double-reinforced with silver and silicon by Matrix-Assisted Pulsed Laser Evaporation for medical applications. Applied Surface Science, 2018, 441, 871-883.	3.1	22
18	Gradient coatings of strontium hydroxyapatite/zinc β -tricalcium phosphate as a tool to modulate osteoblast/osteoclast response. Journal of Inorganic Biochemistry, 2018, 183, 1-8.	1.5	32

#	ARTICLE	IF	CITATIONS
19	Combinatorial Laser Synthesis of Biomaterial Thin Films: Selection and Processing for Medical Applications. Springer Series in Materials Science, 2018, , 309-338.	0.4	4
20	Recent advances of graphene family nanomaterials for nanomedicine. , 2018, , 413-455.		3
21	High Repetition Rate UV versus VIS Picosecond Laser Fabrication of 3D Microfluidic Channels Embedded in Photosensitive Glass. Nanomaterials, 2018, 8, 583.	1.9	12
22	Multiphoton processing technologies applied in laser-based 3D printing. , 2018, , .		0
23	Nanoparticle Generation by Double-Pulse Laser Ablation. , 2018, , 317-356.		0
24	Synergistic effects of BMP-2, BMP-6 or BMP-7 with human plasma fibronectin onto hydroxyapatite coatings: A comparative study. Acta Biomaterialia, 2017, 55, 481-492.	4.1	39
25	Compositional Analysis of Drugs by Laser-Induced Breakdown Spectroscopy. Journal of Applied Spectroscopy, 2017, 84, 472-477.	0.3	7
26	Ideal radiation source for plasma spectroscopy generated by laser ablation. Physical Review E, 2017, 96, 053210.	0.8	35
27	Matrix-Assisted Pulsed Laser Evaporation: A novel approach to design mesoporous carbon films. Carbon, 2017, 122, 484-495.	5.4	11
28	Strontium and zoledronate hydroxyapatites graded composite coatings for bone prostheses. Journal of Colloid and Interface Science, 2015, 448, 1-7.	5.0	51
29	Antiresorption implant coatings based on calcium alendronate and octacalcium phosphate deposited by matrix assisted pulsed laser evaporation. Colloids and Surfaces B: Biointerfaces, 2015, 136, 449-456.	2.5	33
30	Accurate analysis of indium-zinc oxide thin films via laser-induced breakdown spectroscopy based on plasma modeling. Journal of Analytical Atomic Spectrometry, 2014, 29, 553.	1.6	29
31	Comparative investigation of laser ablation plumes in air and argon by analysis of spectral line shapes: Insights on calibration-free laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 100, 189-196.	1.5	37
32	Quantitative analyses of glass via laser-induced breakdown spectroscopy in argon. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 101, 32-45.	1.5	56
33	Quantitative analysis of amorphous indium zinc oxide thin films synthesized by Combinatorial Pulsed Laser Deposition. Applied Physics A: Materials Science and Processing, 2014, 117, 229-236.	1.1	5
34	Combinatorial MAPLE gradient thin film assemblies signalling to human osteoblasts. Biofabrication, 2014, 6, 035010.	3.7	39
35	Combinatorial Matrix Assisted Pulsed Laser Evaporation of a biodegradable polymer and fibronectin for protein immobilization and controlled release. Applied Surface Science, 2014, 306, 75-79.	3.1	22
36	Biomaterial Thin Films by Soft Pulsed Laser Technologies for Biomedical Applications. Springer Series in Materials Science, 2014, , 271-294.	0.4	6

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37	Fabrication of functional fibronectin patterns by nanosecond excimer laser direct write for tissue engineering applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 1809-1821.	1.7	5
38	Active protein and calcium hydroxyapatite bilayers grown by laser techniques for therapeutic applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 2706-2711.	2.1	12
39	Biomimetic Coatings by Pulsed Laser Deposition. <i>Biological and Medical Physics Series</i> , 2013, , 163-191.	0.3	2
40	Combinatorial matrix-assisted pulsed laser evaporation: Single-step synthesis of biopolymer compositional gradient thin film assemblies. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	36
41	Pulsed laser deposition of transparent conductive oxide thin films on flexible substrates. <i>Applied Surface Science</i> , 2012, 260, 42-46.	3.1	62
42	Properties of plasmas produced by short double pulse laser ablation of metals. <i>Journal of Physics: Conference Series</i> , 2012, 399, 012006.	0.3	6
43	Hybrid dextran-iron oxide thin films deposited by laser techniques for biomedical applications. <i>Materials Science and Engineering C</i> , 2012, 32, 296-302.	3.8	18
44	Levan Nanostructured Thin Films by MAPLE Assembling. <i>Biomacromolecules</i> , 2011, 12, 2251-2256.	2.6	76
45	Tailoring immobilization of immunoglobulin by excimer laser for biosensor applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 96A, 384-394.	2.1	12
46	Probing electron-phonon coupling in metals via observations of ablation plumes produced by two delayed short laser pulses. <i>Applied Physics Letters</i> , 2011, 99, 081502.	1.5	14
47	Metal oxide nanoparticles synthesized by pulsed laser ablation for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 7776-7780.	4.0	15
48	Laser induced forward transfer of metal oxides using femtosecond double pulses. <i>Applied Surface Science</i> , 2010, 257, 508-511.	3.1	18
49	Advanced Biomimetic Implants Based on Nanostructured Coatings Synthesized by Pulsed Laser Technologies. <i>Springer Series in Materials Science</i> , 2010, , 235-260.	0.4	22
50	Biofunctional alendronate- Ca -Hydroxyapatite thin films deposited by Matrix Assisted Pulsed Laser Evaporation. <i>Biomaterials</i> , 2009, 30, 6168-6177.	5.7	68
51	Characterization of pulsed laser deposited chalcogenide thin layers. <i>Applied Surface Science</i> , 2009, 255, 5318-5321.	3.1	16
52	Subpicosecond laser ablation of copper and fused silica: Initiation threshold and plasma expansion. <i>Applied Surface Science</i> , 2009, 255, 9734-9737.	3.1	29
53	Investigation of plumes produced by material ablation with two time-delayed femtosecond laser pulses. <i>Applied Surface Science</i> , 2009, 255, 9738-9741.	3.1	19
54	Creatinine biomaterial thin films grown by laser techniques. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 1335-1339.	1.7	7

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55	Correlation between ablation efficiency and nanoparticle generation during the short-pulse laser ablation of metals. <i>Laser Physics</i> , 2008, 18, 374-379.	0.6	60
56	Correlation between plasma expansion and damage threshold by femtosecond laser ablation of fused silica. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 105216.	1.3	19
57	Microstructural Investigations of Hafnium Aluminum Oxide Films. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1074, 1.	0.1	1
58	<title>Behavior of pulsed laser deposited hydroxyapatite thin films under simulated biological conditions</title>. , 2007, 6606, 405.		0
59	Enhanced gas sensing of Au nanocluster-doped or -coated zinc oxide thin films. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	20
60	<title>Structure and optical properties of pulsed-laser-deposited AlN thin films for optoelectronic applications</title>. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0
61	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
62	Structural and optical characterization of undoped, doped, and clustered ZnO thin films obtained by PLD for gas sensing applications. <i>Applied Surface Science</i> , 2007, 253, 6499-6503.	3.1	10
63	Polycaprolactone biopolymer thin films obtained by matrix assisted pulsed laser evaporation. <i>Applied Surface Science</i> , 2007, 253, 6476-6479.	3.1	34
64	Nanoscopic photodeposited structures analyzed by an evanescent optical method. <i>Applied Surface Science</i> , 2007, 253, 6535-6538.	3.1	13
65	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
66	Matrix assisted pulsed laser evaporation of cinnamate-pullulan and tosylate-pullulan polysaccharide derivative thin films for pharmaceutical applications. <i>Applied Surface Science</i> , 2007, 253, 7755-7760.	3.1	16
67	Study of the gradual interface between hydroxyapatite thin films PLD grown onto Ti-controlled sublayers. <i>Applied Surface Science</i> , 2007, 254, 1150-1154.	3.1	15
68	Biocompatible and bioactive coatings of Mn ²⁺ -doped β -tricalcium phosphate synthesized by pulsed laser deposition. <i>Applied Surface Science</i> , 2007, 254, 1155-1159.	3.1	32
69	Using differential evanescent light intensity for evaluating profiles and growth rates in KrF laser photodeposited nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2007, 18, 207-211.	1.1	4
70	Nanocrystalline Er:YAG thin films prepared by pulsed laser deposition: An electron microscopy study. <i>Applied Surface Science</i> , 2007, 253, 8268-8272.	3.1	9
71	Influence of in situ nitrogen pressure on crystallization of pulsed laser deposited AlN films. <i>Applied Surface Science</i> , 2007, 253, 8215-8219.	3.1	24
72	Comparative investigation of solar cell thin film processing using nanosecond and femtosecond lasers. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 453-460.	1.3	118

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73	Electrical Properties of MIS Capacitors with AlN Films Synthesized by Pulsed Laser Deposition. Plasma Processes and Polymers, 2006, 3, 205-208.	1.6	5
74	Selective ablation of thin films with short and ultrashort laser pulses. Applied Surface Science, 2006, 252, 4814-4818.	3.1	77
75	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
76	Doped thin metal oxide films for catalytic gas sensors. Applied Surface Science, 2006, 252, 4578-4581.	3.1	11
77	Optical properties of aluminium nitride films obtained by pulsed laser deposition: an ellipsometric study. Applied Physics A: Materials Science and Processing, 2006, 85, 99-102.	1.1	11
78	Ultra-fast laser ablation applied to deep-drilling of metals. Applied Surface Science, 2005, 248, 299-303.	3.1	50
79	Anatase phase TiO ₂ thin films obtained by pulsed laser deposition for gas sensing applications. Applied Surface Science, 2005, 247, 429-433.	3.1	100
80	Nanostructured ZnO coatings grown by pulsed laser deposition for optical gas sensing of butane. Journal of Applied Physics, 2005, 98, 074312.	1.1	33
81	<title>Pulsed laser deposition of chromium oxides thin films: chemical stabilizations by capping and doping</title>. , 2004, , .		0
82	Biopolymer Thin Films Synthesized by Advanced Pulsed Laser Techniques. , 0, , .		10