

Emanuel Axente

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8112968/publications.pdf>

Version: 2024-02-01

82
papers

1,816
citations

257101
24
h-index

301761
39
g-index

82
all docs

82
docs citations

82
times ranked

1997
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Anatase phase TiO ₂ thin films obtained by pulsed laser deposition for gas sensing applications. <i>Applied Surface Science</i> , 2005, 247, 429-433.	3.1	100
3	Selective ablation of thin films with short and ultrashort laser pulses. <i>Applied Surface Science</i> , 2006, 252, 4814-4818.	3.1	77
4	Levan Nanostructured Thin Films by MAPLE Assembling. <i>Biomacromolecules</i> , 2011, 12, 2251-2256.	2.6	76
5	Biofunctional alendronate-Hydroxyapatite thin films deposited by Matrix Assisted Pulsed Laser Evaporation. <i>Biomaterials</i> , 2009, 30, 6168-6177.	5.7	68
6	Pulsed laser deposition of transparent conductive oxide thin films on flexible substrates. <i>Applied Surface Science</i> , 2012, 260, 42-46.	3.1	62
7	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
8	Quantitative analyses of glass via laser-induced breakdown spectroscopy in argon. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 101, 32-45.	1.5	56
9	Strontium and zoledronate hydroxyapatites graded composite coatings for bone prostheses. <i>Journal of Colloid and Interface Science</i> , 2015, 448, 1-7.	5.0	51
10	Ultra-fast laser ablation applied to deep-drilling of metals. <i>Applied Surface Science</i> , 2005, 248, 299-303.	3.1	50
11	Combinatorial MAPLE gradient thin film assemblies signalling to human osteoblasts. <i>Biofabrication</i> , 2014, 6, 035010.	3.7	39
12	Synergistic effects of BMP-2, BMP-6 or BMP-7 with human plasma fibronectin onto hydroxyapatite coatings: A comparative study. <i>Acta Biomaterialia</i> , 2017, 55, 481-492.	4.1	39
13	Comparative investigation of laser ablation plumes in air and argon by analysis of spectral line shapes: Insights on calibration-free laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 100, 189-196.	1.5	37
14	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
15	Analysis of Multi-elemental Thin Films via Calibration-Free Laser-Induced Breakdown Spectroscopy. <i>Analytical Chemistry</i> , 2019, 91, 2544-2550.	3.2	36
16	Ideal radiation source for plasma spectroscopy generated by laser ablation. <i>Physical Review E</i> , 2017, 96, 053210.	0.8	35
17	Polycaprolactone biopolymer thin films obtained by matrix assisted pulsed laser evaporation. <i>Applied Surface Science</i> , 2007, 253, 6476-6479.	3.1	34
18	Nanostructured ZnO coatings grown by pulsed laser deposition for optical gas sensing of butane. <i>Journal of Applied Physics</i> , 2005, 98, 074312.	1.1	33

#	ARTICLE	IF	CITATIONS
19	Antiresorption implant coatings based on calcium alendronate and octacalcium phosphate deposited by matrix assisted pulsed laser evaporation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 136, 449-456.	2.5	33
20	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
21	Gradient coatings of strontium hydroxyapatite/zinc β -tricalcium phosphate as a tool to modulate osteoblast/osteoclast response. <i>Journal of Inorganic Biochemistry</i> , 2018, 183, 1-8.	1.5	32
22	Matrix assisted pulsed laser evaporation processing of triacetate-pullulan polysaccharide thin films for drug delivery systems. <i>Applied Surface Science</i> , 2006, 252, 4647-4651.	3.1	31
23	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
24	Accurate analysis of indium-zinc oxide thin films via laser-induced breakdown spectroscopy based on plasma modeling. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 553.	1.6	29
25	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
26	Combinatorial Matrix Assisted Pulsed Laser Evaporation of a biodegradable polymer and fibronectin for protein immobilization and controlled release. <i>Applied Surface Science</i> , 2014, 306, 75-79.	3.1	22
27	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. <i>Applied Surface Science</i> , 2018, 441, 871-883.	3.1	22
28	Functionalized Graphene Oxide Thin Films for Anti-tumor Drug Delivery to Melanoma Cells. <i>Frontiers in Chemistry</i> , 2020, 8, 184.	1.8	22
29	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
30	Lab-on-a-Chip Platforms as Tools for Drug Screening in Neuropathologies Associated with Blood-Brain Barrier Alterations. <i>Biomolecules</i> , 2021, 11, 916.	1.8	21
31	Enhanced gas sensing of Au nanocluster-doped or -coated zinc oxide thin films. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	20
32	Local thermodynamic equilibrium in a laser-induced plasma evidenced by blackbody radiation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 144, 82-86.	1.5	20
33	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
34	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
35	Laser induced forward transfer of metal oxides using femtosecond double pulses. <i>Applied Surface Science</i> , 2010, 257, 508-511.	3.1	18
36	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

#	ARTICLE	IF	CITATIONS
37	Evaluation of pressure in a plasma produced by laser ablation of steel. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 143, 63-70.	1.5	18
38	Laser Coatings via State-of-the-Art Additive Manufacturing: A Review. <i>Coatings</i> , 2021, 11, 296.	1.2	18
39	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
40	Characterization of pulsed laser deposited chalcogenide thin layers. <i>Applied Surface Science</i> , 2009, 255, 5318-5321.	3.1	16
41	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
42	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
43	Functional Bioglassâ€”Biopolymer Double Nanostructure for Natural Antimicrobial Drug Extracts Delivery. <i>Nanomaterials</i> , 2020, 10, 385.	1.9	15
44	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
45	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
46	Nanosopic photodeposited structures analyzed by an evanescent optical method. <i>Applied Surface Science</i> , 2007, 253, 6535-6538.	3.1	13
47	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
48	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
49	High Repetition Rate UV versus VIS Picosecond Laser Fabrication of 3D Microfluidic Channels Embedded in Photosensitive Glass. <i>Nanomaterials</i> , 2018, 8, 583.	1.9	12
50	Gradient multifunctional biopolymer thin film assemblies synthesized by combinatorial MAPLE. <i>Applied Surface Science</i> , 2019, 466, 628-636.	3.1	12
51	Measurement error due to self-absorption in calibration-free laser-induced breakdown spectroscopy. <i>Analytica Chimica Acta</i> , 2021, 1185, 339070.	2.6	12
52	Doped thin metal oxide films for catalytic gas sensors. <i>Applied Surface Science</i> , 2006, 252, 4578-4581.	3.1	11
53	Optical properties of aluminium nitride films obtained by pulsed laser deposition: an ellipsometric study. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 85, 99-102.	1.1	11
54	Matrix-Assisted Pulsed Laser Evaporation: A novel approach to design mesoporous carbon films. <i>Carbon</i> , 2017, 122, 484-495.	5.4	11

#	ARTICLE	IF	CITATIONS
55	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
56	Biopolymer Thin Films Synthesized by Advanced Pulsed Laser Techniques. , 0, , .		10
57	Laser-assisted synthesis of carbon coatings with cobalt oxide nanoparticles embedded in gradient of composition and sizes. <i>Surface and Coatings Technology</i> , 2021, 419, 127301.	2.2	10
58	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
59	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
60	Creatinine biomaterial thin films grown by laser techniques. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 1335-1339.	1.7	7
61	Compositional Analysis of Drugs by Laser-Induced Breakdown Spectroscopy. <i>Journal of Applied Spectroscopy</i> , 2017, 84, 472-477.	0.3	7
62	Biomimetic Coatings Obtained by Combinatorial Laser Technologies. <i>Coatings</i> , 2020, 10, 463.	1.2	7
63	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
64	Biomaterial Thin Films by Soft Pulsed Laser Technologies for Biomedical Applications. <i>Springer Series in Materials Science</i> , 2014, , 271-294.	0.4	6
65	Electrical Properties of MIS Capacitors with AlN Films Synthesized by Pulsed Laser Deposition. <i>Plasma Processes and Polymers</i> , 2006, 3, 205-208.	1.6	5
66	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
67	Quantitative analysis of amorphous indium zinc oxide thin films synthesized by Combinatorial Pulsed Laser Deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 229-236.	1.1	5
68	Picosecond Laser Processing of Photosensitive Glass for Generation of Biologically Relevant Microenvironments. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8947.	1.3	5
69	Biomimetic Nanostructures with Compositional Gradient Grown by Combinatorial Matrix-Assisted Pulsed Laser Evaporation for Tissue Engineering. <i>Current Medicinal Chemistry</i> , 2020, 27, 903-918.	1.2	5
70	Composite Drug Delivery System Based on Amorphous Calcium Phosphateâ€“Chitosan: An Efficient Antimicrobial Platform for Extended Release of Tetracycline. <i>Pharmaceutics</i> , 2021, 13, 1659.	2.0	5
71	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
72	Combinatorial Laser Synthesis of Biomaterial Thin Films: Selection and Processing for Medical Applications. <i>Springer Series in Materials Science</i> , 2018, , 309-338.	0.4	4

#	ARTICLE	IF	CITATIONS
73	Recent advances of graphene family nanomaterials for nanomedicine. , 2018, , 413-455.		3
74	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
75	Biomimetic Coatings by Pulsed Laser Deposition. Biological and Medical Physics Series, 2013, , 163-191.	0.3	2
76	Special Issue "Pulsed Laser Deposition of Thin Films: Recent Advances and Challenge" Coatings, 2022, 12, 368.	1.2	2
77	Microstructural Investigations of Hafnium Aluminum Oxide Films. Materials Research Society Symposia Proceedings, 2008, 1074, 1.	0.1	1
78	<title>Pulsed laser deposition of chromium oxides thin films: chemical stabilizations by capping and doping</title>. , 2004, , .		0
79	<title>Behavior of pulsed laser deposited hydroxyapatite thin films under simulated biological conditions</title>. , 2007, 6606, 405.		0
80	<title>Structure and optical properties of pulsed-laser-deposited AlN thin films for optoelectronic applications</title>. Proceedings of SPIE, 2007, , .	0.8	0
81	Multiphoton processing technologies applied in laser-based 3D printing. , 2018, , .		0
82	Nanoparticle Generation by Double-Pulse Laser Ablation. , 2018, , 317-356.		0