

Nicolaie È~tefan

List of Publications by Year in descending order

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45
papers

761
citations

430874

18
h-index

552781

26
g-index

46
all docs

46
docs citations

46
times ranked

1220
citing authors

#	ARTICLE	IF	CITATIONS
1	Pulsed laser deposition of transparent conductive oxide thin films on flexible substrates. Applied Surface Science, 2012, 260, 42-46.	6.1	62
2	Composite biocompatible hydroxyapatite/silk fibroin coatings for medical implants obtained by Matrix Assisted Pulsed Laser Evaporation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 169, 151-158.	3.5	48
3	Characterization of PLD grown WO ₃ thin films for gas sensing. Applied Surface Science, 2017, 417, 218-223.	6.1	47
4	Hydroxyapatite thin films synthesized by pulsed laser deposition and magnetron sputtering on PMMA substrates for medical applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 169, 159-168.	3.5	41
5	Flexible heterostructures based on metal phthalocyanines thin films obtained by MAPLE. Applied Surface Science, 2016, 374, 403-410.	6.1	35
6	Biomimetic nanocrystalline apatite coatings synthesized by Matrix Assisted Pulsed Laser Evaporation for medical applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 181, 56-63.	3.5	33
7	Characteristics of ZrC/ZrN and ZrC/TiN multilayers grown by pulsed laser deposition. Applied Surface Science, 2011, 257, 5332-5336.	6.1	32
8	Photocatalytic activity of pulsed laser deposited TiO ₂ thin films in N ₂ , O ₂ and CH ₄ . Thin Solid Films, 2010, 518, 4648-4653.	1.8	31
9	Antimicrobial polycaprolactone/polyethylene glycol embedded lysozyme coatings of Ti implants for osteoblast functional properties in tissue engineering. Applied Surface Science, 2017, 417, 234-243.	6.1	31
10	Composite biodegradable biopolymer coatings of silk fibroin and Poly(3-hydroxybutyric-acid-co-3-hydroxyvaleric-acid) for biomedical applications. Applied Surface Science, 2015, 355, 1123-1131.	6.1	30
11	Correlation between electronic structure and photocatalytic properties of non-metal doped TiO ₂ /ZrO ₂ thin films obtained by pulsed laser deposition method. Vacuum, 2015, 114, 166-171.	3.5	27
12	High quality amorphous indium zinc oxide thin films synthesized by pulsed laser deposition. Thin Solid Films, 2011, 520, 1274-1277.	1.8	24
13	Structural investigations of ITO-ZnO films grown by the combinatorial pulsed laser deposition technique. Applied Surface Science, 2009, 255, 5288-5291.	6.1	23
14	Chemical composition of ZrC thin films grown by pulsed laser deposition. Applied Surface Science, 2009, 255, 5260-5263.	6.1	22
15	Photoexpansion and nano-lenslet formation in amorphous As ₂ S ₃ thin films by 800-nm femtosecond laser irradiation. Journal of Applied Physics, 2012, 112, .	2.5	22
16	Very hard TiN thin films grown by pulsed laser deposition. Applied Surface Science, 2012, 260, 2-6.	6.1	22
17	The effect of deposition atmosphere on the chemical composition of TiN and ZrN thin films grown by pulsed laser deposition. Applied Surface Science, 2014, 302, 124-128.	6.1	21
18	Enhanced gas sensing of Au nanocluster-doped or -coated zinc oxide thin films. Journal of Applied Physics, 2007, 102, .	2.5	20

#	ARTICLE	IF	CITATIONS
19	Large third-order optical nonlinearities in iron oxide thin films synthesized by reactive pulsed laser deposition. <i>Optical Materials</i> , 2016, 60, 123-127.	3.6	15
20	Influence of thermal treatment in N ₂ atmosphere on chemical, microstructural and optical properties of indium tin oxide and nitrogen doped indium tin oxide rf-sputtered thin films. <i>Thin Solid Films</i> , 2013, 541, 121-126.	1.8	14
21	Degradable silk fibroin " Poly (sebacic acid) diacetoxy terminated, (SF-PSADT) polymeric composite coatings for biodegradable medical applications deposited by laser technology. <i>Progress in Organic Coatings</i> , 2019, 134, 11-21.	3.9	13
22	Biocompatibility and bioactivity enhancement of Ce stabilized ZrO ₂ doped HA coatings by controlled porosity change of Al ₂ O ₃ substrates. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 96B, 218-224.	3.4	12
23	Shallow hydroxyapatite coatings pulsed laser deposited onto Al ₂ O ₃ substrates with controlled porosity: correlation of morphological characteristics with in vitro testing results. <i>Applied Surface Science</i> , 2009, 255, 5312-5317.	6.1	11
24	Mechanical properties of pulsed laser deposited nanocrystalline SiC films. <i>Applied Surface Science</i> , 2015, 336, 391-395.	6.1	11
25	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.	6.1	10
26	High-repetition rate pulsed laser deposition of ZrC thin films. <i>Surface and Coatings Technology</i> , 2009, 203, 1055-1058.	4.8	10
27	On the structural and electrical characteristics of zinc oxide thin films. <i>Thin Solid Films</i> , 2010, 518, 4615-4618.	1.8	10
28	Evolution of the properties of ZnO thin films subjected to heating treatments. <i>Thin Solid Films</i> , 2012, 520, 4689-4693.	1.8	10
29	Structural investigations of InZnO films grown by pulsed laser deposition technique. <i>Thin Solid Films</i> , 2010, 518, 4564-4567.	1.8	9
30	Interfacial atomic diffusion in AF/Fe/Cu/Fe (AF = Fe ₅₀ Mn ₅₀ and Ir ₅₀ Mn ₅₀) multilayer systems. <i>Thin Solid Films</i> , 2010, 518, 5981-5985.	1.8	7
31	Wear resistance of ZrC/TiN and ZrC/ZrN thin multilayers grown by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 717-722.	2.3	7
32	The Influence of the Microstructure and Morphology of CeO ₂ Buffer Layer on the Properties of YBCO Films PLD Grown on Ni Tape. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 2475-2485.	1.8	7
33	Investigation of nitrogen and iron co-doped TiO ₂ films synthesized in N ₂ /CH ₄ via pulsed laser deposition technique. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 2569-2579.	3.1	7
34	Laser Synthesis of Nanometric Iron Oxide Films with High Seebeck Coefficient and High Thermoelectric Figure of Merit. <i>Lasers in Manufacturing and Materials Processing</i> , 2014, 1, 21-35.	2.2	5
35	Laser synthesis of 2D heterostructures of transitional metal oxides for photo sensors with high sensitivity. <i>Journal of Laser Applications</i> , 2016, 28, .	1.7	5
36	Characterization of MAPLE deposited WO ₃ thin films for electrochromic applications. <i>Journal of Physics: Conference Series</i> , 2017, 780, 012013.	0.4	5

#	ARTICLE	IF	CITATIONS
37	Cubic Optical Nonlinearity of Thin Fe ₂ O ₃ and Cr ₂ O ₃ Films Synthesized by Pulsed Laser Deposition. Ukrainian Journal of Physics, 2016, 61, 495-501.	0.2	5
38	Laser synthesis of nanometric iron oxide films for thermo-sensing applications. Materials Research Bulletin, 2014, 50, 148-154.	5.2	4
39	Spin configurations and interfacial diffusion in exchange bias and spin valve systems with Ir/Mn antiferromagnetic pinning layers. Hyperfine Interactions, 2009, 191, 135-141.	0.5	3
40	Pulsed laser deposition of semiconducting crystalline double-doped barium titanate thin films on nickel substrates. Applied Surface Science, 2011, 257, 3570-3576.	6.1	3
41	Structural and Magnetoresistive Properties of Nanometric Films Based on Iron and Chromium Oxides on the Si Substrate. Nanoscale Research Letters, 2016, 11, 467.	5.7	3
42	Pulsed Laser-Deposited TiO ₂ -based Films: Synthesis, Electronic Structure and Photocatalytic Activity. , O, , .		2
43	Laser synthesis of 2D structures for photo-thermo sensors with high sensitivity. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	2
44	Combinatorial pulsed laser deposition of thin films. , 2008, , .		0
45	Effect of broadband light on Ag/As ₂ S ₃ multilayers. Journal of Non-Crystalline Solids, 2013, 377, 159-161.	3.1	0