Gabriel Socol

List of Publications by Year
in descending order

229 papers	4,149 citations	136950 32 h-index	197818 49 g-index
230 all docs	230 docs citations	230 times ranked	4625 citing authors

#	Article	IF	Citations
1	Strontium-substituted hydroxyapatite coatings synthesized by pulsed-laser deposition: In vitro osteoblast and osteoclast response. Acta Biomaterialia, 2008, 4, 1885-1893.	8.3	313
2	Human osteoblast response to pulsed laser deposited calcium phosphate coatings. Biomaterials, 2005, 26, 2381-2389.	11.4	180
3	Anatase phase TiO2 thin films obtained by pulsed laser deposition for gas sensing applications. Applied Surface Science, 2005, 247, 429-433.	6.1	100
4	Biocompatible nanocrystalline octacalcium phosphate thin films obtained by pulsed laser deposition. Biomaterials, 2004, 25, 2539-2545.	11.4	70
5	Functionalized antibiofilm thin coatings based on PLAâ€“PVA microspheres loaded with usnic acid natural compounds fabricated by MAPLE. Applied Surface Science, 2014, 302, 262-267.	6.1	64
6	Pulsed laser deposition of transparent conductive oxide thin films on flexible substrates. Applied Surface Science, 2012, 260, 42-46.	6.1	62
7	Deposition of biopolymer thin films by matrix assisted pulsed laser evaporation. Applied Physics A: Materials Science and Processing, 2004, 79, 1023-1026.	2.3	59
8	Structure and magnetic properties of ZnO films doped with Co, Ni or Mn synthesized by pulsed laser deposition under low and high oxygen partial pressures. Thin Solid Films, 2008, 517, 916-922.	1.8	59
9	Structural and optical characterization of WO3 thin films for gas sensor applications. Journal of Applied Physics, 2005, 97, 093527.	2.5	58
10	Bioactive glass and hydroxyapatite thin films obtained by pulsed laser deposition. Applied Surface Science, 2007, 253, 7981-7986.	6.1	51
11	MAPLE fabricated magnetite@eugenol and (3-hidroxybutyric acid-co-3-hidroxyvaleric acid)â€“polyvinyl alcohol microspheres coated surfaces with anti-microbial properties. Applied Surface Science, 2014, 306, 16-22.	6.1	51
12	Laser deposition of fibrinogen blood proteins thin films by matrix assisted pulsed laser evaporation. Applied Surface Science, 2005, 248, 422-427.	6.1	48
13	Composite biocompatible hydroxyapatiteâ€“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
14	Degradation Behavior of Polymers Used as Coating Materials for Drug Deliveryâ€”A Basic Review. Polymers, 2021, 13, 1272.	4.5	47
15	Wet chemical synthesis of ZnO-CdS composites and their photocatalytic activity. Materials Research Bulletin, 2018, 99, 174-181.	5.2	46
16	Usnic acid-loaded biocompatible magnetic PLGA-PVA microsphere thin films fabricated by MAPLE with increased resistance to staphylococcal colonization. Biofabrication, 2014, 6, 035002.	7.1	45
17	Biocompatible Mn2+-doped carbonated hydroxyapatite thin films grown by pulsed laser deposition. Journal of Biomedical Materials Research - Part A, 2004, 71A, 353-358.	4.0	44
18	Structural and optical characterization of AlN films grown by pulsed laser deposition. Applied Surface Science, 2005, 248, 411-415.	6.1	44

#	Article	IF	Citations
19	Synthesis of functionally graded bioactive glass-apatite multistructures on Ti substrates by pulsed laser deposition. Applied Surface Science, 2007, 254, 1279-1282.	6.1	44
20	Chromium oxides thin films prepared and coated in situ with gold by pulsed laser deposition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 118, 74-78.	3.5	42
21	Optical properties of amorphous-like indium zinc oxide and indium gallium zinc oxide thin films. Thin Solid Films, 2012, 520, 4722-4725.	1.8	42
22	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
23	Bioglass thin films for biomimetic implants. Applied Surface Science, 2009, 255, 5476-5479.	6.1	38
24	MAPLE Fabricated Fe3O4@Cinnamomum verum Antimicrobial Surfaces for Improved Gastrostomy Tubes. Molecules, 2014, 19, 8981-8994.	3.8	38
25	Calcium phosphate thin films synthesized by pulsed laser deposition: Physico-chemical characterization and in vitro cell response. Applied Surface Science, 2005, 248, 344-348.	6.1	37
26	Functionalized magnetite silica thin films fabricated by MAPLE with antibiofilm properties. Biofabrication, 2013, 5, 015007.	7.1	36
27	Flexible heterostructures based on metal phthalocyanines thin films obtained by MAPLE. Applied Surface Science, 2016, 374, 403-410.	6.1	35
28	Polycaprolactone biopolymer thin films obtained by matrix assisted pulsed laser evaporation. Applied Surface Science, 2007, 253, 6476-6479.	6.1	34
29	Fabrication of antimicrobial silver-doped carbon structures by combinatorial pulsed laser deposition. International Journal of Pharmaceutics, 2016, 515, 592-606.	5.2	34
30	Hydroxyapatite thin films grown by pulsed laser deposition and matrix assisted pulsed laser evaporation: Comparative study. Applied Surface Science, 2017, 418, 580-588.	6.1	34
31	Nanostructured ZnO coatings grown by pulsed laser deposition for optical gas sensing of butane. Journal of Applied Physics, 2005, 98, 074312.	2.5	33
32	Biocompatible and bioactive coatings of Mn2+-doped Î²-tricalcium phosphate synthesized by pulsed laser deposition. Applied Surface Science, 2007, 254, 1155-1159.	6.1	32
33	Deposition of antibacterial of poly(1,3-bis-(p-carboxyphenoxy propane)-co-(sebacic anhydride)) 20:80/gentamicin sulfate composite coatings by MAPLE. Applied Surface Science, 2011, 257, 5287-5292.	6.1	32
34	Characteristics of ZrC/ZrN and ZrC/TiN multilayers grown by pulsed laser deposition. Applied Surface Science, 2011, 257, 5332-5336.	6.1	32
35	Pulsed Laser Deposition of Indium Tin Oxide Thin Films on Nanopatterned Glass Substrates. Coatings, 2019, 9, 19.	2.6	32
36	Photocatalytic activity of pulsed laser deposited TiO2 thin films in N2, O2 and CH4. Thin Solid Films, 2010, 518, 4648-4653.	1.8	31

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37	Antimicrobial nanospheres thin coatings prepared by advanced pulsed laser technique. Beilstein Journal of Nanotechnology, 2014, 5, 872-880.	2.8	31
38	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
39	Composite biodegradable biopolymer coatings of silk fibroin â€“ Poly(3-hydroxybutyric-acid-co-3-hydroxyvaleric-acid) for biomedical applications. Applied Surface Science, 2015, 355, 1123-1131.	6.1	30
40	Structure, properties and gas sensing effect of SnSe2 films prepared by pulsed laser deposition method. Journal of Non-Crystalline Solids, 2007, 353, 1865-1869.	3.1	29
41	On the stoichiometry of mass transfer from solid to plasma during pulsed laser ablation of brass. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 636-641.	2.9	29
42	Maple prepared organic heterostructures for photovoltaic applications. Applied Physics A: Materials Science and Processing, 2011, 104, 921-928.	2.3	29
43	Accurate analysis of indiumâ€“zinc oxide thin films via laser-induced breakdown spectroscopy based on plasma modeling. Journal of Analytical Atomic Spectrometry, 2014, 29, 553.	3.0	29
44	A polyaniline/platinum coated fiber optic surface plasmon resonance sensor for picomolar detection of 4-nitrophenol. Scientific Reports, 2021, 11, 10086.	3.3	28
45	New results in pulsed laser deposition of poly-methyl-methacrylate thin films. Applied Surface Science, 2003, 208-209, 645-650.	6.1	27
46	Structural characterization of AlN films synthesized by pulsed laser deposition. Applied Surface Science, 2011, 257, 5370-5374.	6.1	27
47	Visible light-harvesting of TiO2 nanotubes array by pulsed laser deposited CdS. Applied Surface Science, 2014, 309, 225-230.	6.1	27
48	Correlation between electronic structure and photocatalytic properties of non-metal doped TiO2/ZrO2 thin films obtained by pulsed laser deposition method. Vacuum, 2015, 114, 166-171.	3.5	27
49	Core-shell nanowire arrays based on ZnO and CuxO for water stable photocatalysts. Scientific Reports, 2019, 9, 17268.	3.3	27
50	Wear tests of ZrC and ZrN thin films grown by pulsed laser deposition. Applied Surface Science, 2014, 306, 33-36.	6.1	26
51	Bioactive ZnO Coatings Deposited by MAPLEâ€”An Appropriate Strategy to Produce Efficient Anti-Biofilm Surfaces. Molecules, 2016, 21, 220.	3.8	26
52	Growth and characterization of Î²-SiC films obtained by fs laser ablation. Applied Surface Science, 2006, 252, 4672-4677.	6.1	25
53	In-situ crystallization of GeTeGaSb phase change memory stacked films. Journal of Applied Physics, 2014, 116, 234306.	2.5	25
54	Fabrication of magnetite-based coreâ€“shell coated nanoparticles with antibacterial properties. Biofabrication, 2015, 7, 015014.	7.1	25

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55	Influence of in situ nitrogen pressure on crystallization of pulsed laser deposited AlN films. Applied Surface Science, 2007, 253, 8215-8219.	6.1	24
56	High quality amorphous indium zinc oxide thin films synthesized by pulsed laser deposition. Thin Solid Films, 2011, 520, 1274-1277.	1.8	24
57	MAPLE fabrication of thin films based on kanamycin functionalized magnetite nanoparticles with anti-pathogenic properties. Applied Surface Science, 2015, 336, 188-195.	6.1	24
58	MAPLE deposition of Nigella sativa functionalized Fe3O4 nanoparticles for antimicrobial coatings. Applied Surface Science, 2018, 455, 513-521.	6.1	24
59	Structural investigations of ITO-ZnO films grown by the combinatorial pulsed laser deposition technique. Applied Surface Science, 2009, 255, 5288-5291.	6.1	23
60	Thin films of arylenevinylene oligomers prepared by MAPLE for applications in non-linear optics. Applied Surface Science, 2011, 257, 5298-5302.	6.1	23
61	Antimicrobial activity of biopolymeric thin films containing flavonoid natural compounds and silver nanoparticles fabricated by MAPLE: A comparative study. Applied Surface Science, 2016, 374, 290-296.	6.1	23
62	Chemical composition of ZrC thin films grown by pulsed laser deposition. Applied Surface Science, 2009, 255, 5260-5263.	6.1	22
63	MAPLE prepared polymeric thin films for non-linear optic applications. Applied Surface Science, 2009, 255, 5611-5614.	6.1	22
64	Photoexpansion and nano-lenslet formation in amorphous As2S3 thin films by 800â€‰nm femtosecond laser irradiation. Journal of Applied Physics, 2012, 112, .	2.5	22
65	Very hard TiN thin films grown by pulsed laser deposition. Applied Surface Science, 2012, 260, 2-6.	6.1	22
66	Long-Term Evaluation of Dip-Coated PCL-Blend-PEG Coatings in Simulated Conditions. Polymers, 2020, 12, 717.	4.5	22
67	PLD thin films obtained from CrO3 and Cr8O21 targets. Applied Surface Science, 2005, 247, 139-144.	6.1	21
68	Preparation and Characterization of Polar Aniline Functionalized Copolymers Thin Films for Optical Non-Linear Applications. Ferroelectrics, 2009, 389, 159-173.	0.6	21
69	Structure and properties of silver doped SnSe₂ and Ge₂Sb₂Te₅ thin films prepared by pulsed laser deposition. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 516-520.	1.8	21
70	Magnetic core/shell nanoparticle thin films deposited by MAPLE: Investigation by chemical, morphological and in vitro biological assays. Applied Surface Science, 2012, 258, 9250-9255.	6.1	21
71	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
72	Titanium implantsâ€™ surface functionalization by pulsed laser deposition of TiN, ZrC and ZrN hard films. Applied Surface Science, 2017, 417, 175-182.	6.1	21

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73	Hybrid organic-inorganic thin films based on zinc phthalocyanine and zinc oxide deposited by MAPLE. Applied Surface Science, 2020, 503, 144317.	6.1	21
74	Enhanced gas sensing of Au nanocluster-doped or -coated zinc oxide thin films. Journal of Applied Physics, 2007, 102, .	2.5	20
75	Mesoporous silica coatings for cephalosporin active release at the bone-implant interface. Applied Surface Science, 2016, 374, 165-171.	6.1	20
76	Biocomposite coatings based on Poly(3-hydroxybutyrate- co -3-hydroxyvalerate)/calcium phosphates obtained by MAPLE for bone tissue engineering. Applied Surface Science, 2017, 417, 204-212.	6.1	20
77	Gamma-cyclodextrin/usnic acid thin film fabricated by MAPLE for improving the resistance of medical surfaces to Staphylococcus aureus colonization. Applied Surface Science, 2015, 336, 407-412.	6.1	19
78	Biocompatible cephalosporin-hydroxyapatite-poly(lactic-co-glycolic acid)-coatings fabricated by MAPLE technique for the prevention of bone implant associated infections. Applied Surface Science, 2016, 374, 387-396.	6.1	19
79	Transparent indium zinc oxide thin films used in photovoltaic cells based on polymer blends. Thin Solid Films, 2012, 520, 6803-6806.	1.8	18
80	Ar ions irradiation effects in ZrN thin films grown by pulsed laser deposition. Applied Surface Science, 2015, 336, 129-132.	6.1	18
81	Thin coatings based on ZnO@C18-usnic acid nanoparticles prepared by MAPLE inhibit the development of Salmonella enterica early biofilm growth. Applied Surface Science, 2016, 374, 318-325.	6.1	18
82	Laser deposition of poly(3-hydroxybutyric acid-co-3-hydroxyvaleric acid) â€“ lysozyme microspheres based coatings with anti-microbial properties. International Journal of Pharmaceutics, 2017, 521, 184-195.	5.2	18
83	Sn-doped TiO2 nanotubular thin film for photocatalytic degradation of methyl orange dye. Journal of Physics and Chemistry of Solids, 2020, 147, 109609.	4.0	18
84	AlN:Cr thin films synthesized by pulsed laser deposition: Studies by X-ray diffraction and spectroscopic ellipsometry. Applied Surface Science, 2009, 255, 5271-5274.	6.1	17
85	Optical and mechanical properties of nanocrystalline ZrC thin films grown by pulsed laser deposition. Applied Surface Science, 2015, 352, 28-32.	6.1	17
86	Femtosecond pulse shaping for phase and morphology control in PLD: Synthesis of cubic SiC. Applied Surface Science, 2006, 252, 4857-4862.	6.1	16
87	Characterization of pulsed laser deposited chalcogenide thin layers. Applied Surface Science, 2009, 255, 5318-5321.	6.1	16
88	Analysis of indium zinc oxide thin films by laser-induced breakdown spectroscopy. Journal of Applied Physics, 2011, 110, .	2.5	16
89	Crystalline vanadium nitride ultra-thin films obtained at room temperature by pulsed laser deposition. Surface and Coatings Technology, 2012, 211, 158-162.	4.8	16
90	MAPLE prepared heterostructures with arylene based polymer active layer for photovoltaic applications. Applied Surface Science, 2015, 336, 240-248.	6.1	16

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91	Thin and hard ZrC/TiN multilayers grown by pulsed laser deposition. Surface and Coatings Technology, 2011, 205, 5493-5496.	4.8	15
92	Optical properties of amorphous indium zinc oxide thin films synthesized by pulsed laser deposition. Applied Surface Science, 2014, 306, 52-55.	6.1	15
93	MAPLE fabricated coatings based on magnetite nanoparticles embedded into biopolymeric spheres resistant to microbial colonization. Applied Surface Science, 2018, 448, 230-236.	6.1	15
94	Laser Processed Antimicrobial Nanocomposite Based on Polyaniline Grafted Lignin Loaded with Gentamicin-Functionalized Magnetite. Polymers, 2019, 11, 283.	4.5	15
95	Effect of ITO electrode patterning on the properties of organic heterostructures based on non-fullerene acceptor prepared by MAPLE. Applied Surface Science, 2020, 509, 145351.	6.1	15
96	Nanostructured LiFe5O8 by a Biogenic Method for Applications from Electronics to Medicine. Nanomaterials, 2021, 11, 193.	4.1	15
97	Bioactive Coatings Based on Hydroxyapatite, Kanamycin, and Growth Factor for Biofilm Modulation. Antibiotics, 2021, 10, 160.	3.7	15
98	Matrix assisted pulsed laser evaporation of poly(d,l-lactide) thin films for controlled-release drug systems. Applied Surface Science, 2007, 253, 7702-7706.	6.1	14
99	Antimicrobial activity of biopolymerâ€“antibiotic thin films fabricated by advanced pulsed laser methods. Applied Surface Science, 2013, 278, 211-213.	6.1	14
100	Laser prepared organic heterostuctures on glass/AZO substrates. Applied Surface Science, 2014, 302, 169-176.	6.1	14
101	In-situ characterization of the optical and electronic properties in GeTe and GaSb thin films. Journal of Applied Physics, 2015, 118, .	2.5	14
102	Nanoscopic photodeposited structures analyzed by an evanescent optical method. Applied Surface Science, 2007, 253, 6535-6538.	6.1	13
103	MAPLE preparation and characterization of mixed arylenevinylene based oligomers:C60 layers. Applied Surface Science, 2016, 374, 278-289.	6.1	13
104	Degradable silk fibroin â€“ Poly (sebacic acid) diacetoxy terminated, (SF-PSADT) polymeric composite coatings for biodegradable medical applications deposited by laser technology. Progress in Organic Coatings, 2019, 134, 11-21.	3.9	13
105	Electrolyte-Dependent Modification of Resistive Switching in Anodic Hafnia. Nanomaterials, 2021, 11, 666.	4.1	13
106	Phosphate incorporation in anodic hafnium oxide memristors. Applied Surface Science, 2021, 548, 149093.	6.1	13
107	AFM and complementary XRD measurements of in situ grown YBCO films obtained by pulsed laser deposition. Applied Surface Science, 2007, 253, 8179-8183.	6.1	12
108	The role of the substrate material type in formation of laser induced periodical surface structures on ZnO thin films. Applied Surface Science, 2012, 258, 9385-9388.	6.1	12

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109	Bioevaluation of Novel Anti-Biofilm Coatings Based on PVP/Fe3O4 Nanostructures and 2-((4-Ethylphenoxy)methyl)-N- (arylcarbamothioyl)benzamides. Molecules, 2014, 19, 12011-12030.	3.8	12
110	Carvone functionalized iron oxide nanostructures thin films prepared by MAPLE for improved resistance to microbial colonization. Journal of Sol-Gel Science and Technology, 2015, 73, 605-611.	2.4	12
111	Absorption boost of TiO2 nanotubes by doping with N and sensitization with CdS quantum dots. Ceramics International, 2017, 43, 15040-15046.	4.8	12
112	Printing amphotericin B on microneedles using matrixassisted pulsed laser evaporationÂ. International Journal of Bioprinting, 2017, 3, 147.	3.4	12
113	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.	2.3	11
114	Nanostructured thin layers of vanadium oxides doped with cobalt, prepared by pulsed laser ablation: chemistry, local atomic structure, morphology and magnetism. Journal of Experimental Nanoscience, 2010, 5, 509-526.	2.4	11
115	MAPLE fabricated magnetite@Melissa officinalis and poly lactic acid: chitosan coated surfaces with anti-staphylococcal properties. Journal of Sol-Gel Science and Technology, 2015, 73, 612-619.	2.4	11
116	Mechanical properties of pulsed laser deposited nanocrystalline SiC films. Applied Surface Science, 2015, 336, 391-395.	6.1	11
117	Organic heterostructures deposited by MAPLE on AZO substrate. Applied Surface Science, 2017, 417, 196-203.	6.1	11
118	IZO deposited by PLD on flexible substrate for organic heterostructures. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	11
119	MAPLE prepared heterostructures with oligoazomethine: Fullerene derivative mixed layer for photovoltaic applications. Applied Surface Science, 2017, 417, 183-195.	6.1	11
120	Thermal stability of phase change GaSbGeTe, SnSeGeTe and GaSbSnSe double stacked films revealed by X-ray reflectometry and X-ray diffraction. Journal of Non-Crystalline Solids, 2018, 492, 11-17.	3.1	11
121	Flexible organic heterostructures obtained by MAPLE. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	11
122	Nanomagnetite-embedded PLGA Spheres for Multipurpose Medical Applications. Materials, 2019, 12, 2521.	2.9	11
123	Doping of TiO2 nanotubes with nitrogen by annealing in ammonia for visible light activation: Influence of pre- and post-annealing in air. Thin Solid Films, 2019, 692, 137598.	1.8	11
124	Structural and optical characterization of undoped, doped, and clustered ZnO thin films obtained by PLD for gas sensing applications. Applied Surface Science, 2007, 253, 6499-6503.	6.1	10
125	High-repetition rate pulsed laser deposition of ZrC thin films. Surface and Coatings Technology, 2009, 203, 1055-1058.	4.8	10
126	Surface morphology of AlN films synthesized by pulsed laser deposition. Vacuum, 2009, 84, 155-157.	3.5	10

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127	VIS/IR spectroscopy of thin AlN films grown by pulsed laser deposition at 400Â°C and 800Â°C and various N₂ pressures. Journal of Physics: Conference Series, 2014, 514, 012001.	0.4	10
128	Fabrication and characterization of functionalized surfaces with 3-amino propyltrimethoxysilane films for anti-infective therapy applications. Applied Surface Science, 2015, 336, 401-406.	6.1	10
129	Structural and mechanical properties changes induced in nanocrystalline ZrC thin films by Ar ion irradiation. Journal of Nuclear Materials, 2016, 468, 78-83.	2.7	10
130	Pulsed Laser Fabrication of TiO2 Buffer Layers for Dye Sensitized Solar Cells. Nanomaterials, 2019, 9, 746.	4.1	10
131	Proteomics of regenerated tissue in response to a titanium implant with a bioactive surface in a rat tibial defect model. Scientific Reports, 2020, 10, 18493.	3.3	10
132	Sensitive pH Monitoring Using a Polyaniline-Functionalized Fiber Opticâ€"Surface Plasmon Resonance Detector. Sensors, 2021, 21, 4218.	3.8	10
133	Electron microscopy studies of octa-calcium phosphate thin films obtained by pulsed laser deposition. Thin Solid Films, 2004, 453-454, 157-161.	1.8	9
134	Nanocrystalline Er:YAG thin films prepared by pulsed laser deposition: An electron microscopy study. Applied Surface Science, 2007, 253, 8268-8272.	6.1	9
135	Growth of vertically oriented films of carbon nanotubes by activated catalytic chemical vapor deposition on Feâ€"Co/TiN/Si(100) substrates. Journal of Materials Research, 2008, 23, 619-631.	2.6	9
136	Specific biofunctional performances of the hydroxyapatiteâ€"sodium maleate copolymer hybrid coating nanostructures evaluated by in vitro studies. Journal of Materials Science: Materials in Medicine, 2009, 20, 2305-2316.	3.6	9
137	Structural investigations of InZnO films grown by pulsed laser deposition technique. Thin Solid Films, 2010, 518, 4564-4567.	1.8	9
138	Effect of maleic anhydrideâ€"aniline derivative buffer layer on the properties of flexible substrate heterostructures: Indium tin oxide/nucleic acid base/metal. Thin Solid Films, 2011, 520, 1251-1258.	1.8	9
139	Modification of AlN thin films morphology and structure by temporally shaping of fs laser pulses used for deposition. Thin Solid Films, 2011, 519, 6381-6387.	1.8	9
140	Detection of charge density wave ground state in granular thin films of blue bronze K0.3MoO3 by femtosecond spectroscopy. Journal of Applied Physics, 2011, 110, .	2.5	9
141	Microbial colonization of biopolymeric thin films containing natural compounds and antibiotics fabricated by MAPLE. Applied Surface Science, 2015, 336, 234-239.	6.1	9
142	Gamma irradiation effects on the properties of indium zinc oxide thin films. Thin Solid Films, 2016, 614, 2-6.	1.8	9
143	CdS quantum dots sensitized TiO2 nanotubes by matrix assisted pulsed laser evaporation method. Ceramics International, 2016, 42, 9011-9017.	4.8	9
144	Bioactive Ibuprofen-Loaded PLGA Coatings for Multifunctional Surface Modification of Medical Devices. Polymers, 2021, 13, 1413.	4.5	9

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145	Biomolecular papain thin films growth by laser techniques. Journal of Materials Science: Materials in Medicine, 2007, 18, 1643-1647.	3.6	8
146	Highâ€contrast 2D etched holes array obtained by direct laser writing on chalcogenide As₂S₃ films. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2173-2178.	1.8	8
147	Organic heterostructures based on arylenevinylene oligomers deposited by MAPLE. Applied Surface Science, 2014, 302, 216-222.	6.1	8
148	Laser prepared organic heterostructures based on star-shaped arylenevinylene compounds. Applied Physics A: Materials Science and Processing, 2014, 117, 261-268.	2.3	8
149	Enhanced absorption of TiO₂ nanotubes by N-doping and CdS quantum dots sensitization: insight into the structure. RSC Advances, 2018, 8, 35073-35082.	3.6	8
150	Thin Films Based on Cobalt Phthalocyanine:C60 Fullerene:ZnO Hybrid Nanocomposite Obtained by Laser Evaporation. Nanomaterials, 2020, 10, 468.	4.1	8
151	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
152	Spectroscopic studies of (AsSe)100â^'xAgx thin films. Applied Surface Science, 2009, 255, 9691-9694.	6.1	7
153	Wear resistance of ZrC/TiN and ZrC/ZrN thin multilayers grown by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2013, 110, 717-722.	2.3	7
154	Poly(lactic-co-glycolic) acid/chitosan microsphere thin films functionalized with Cinnamomi aetheroleum and magnetite nanoparticles for preventing the microbial colonization of medical surfaces. Journal of Sol-Gel Science and Technology, 2015, 73, 679-686.	2.4	7
155	Lincomycinâ€“embedded PANIâ€“based coatings for biomedical applications. Applied Surface Science, 2018, 455, 653-666.	6.1	7
156	Organic Thin Films Based on DPP-DTT:C60 Blends Deposited by MAPLE. Nanomaterials, 2020, 10, 2366.	4.1	7
157	Chemical Degradation of Methylene Blue Dye Using TiO2/Au Nanoparticles. Nanomaterials, 2021, 11, 1605.	4.1	7
158	Organic Thin Films Deposited by Matrix-Assisted Pulsed Laser Evaporation (MAPLE) for Photovoltaic Cell Applications: A Review. Coatings, 2021, 11, 1368.	2.6	7
159	Thin Film Fabrication by Pulsed Laser Deposition from TiO2 Targets in O2, N2, He, or Ar for Dye-Sensitized Solar Cells. Coatings, 2022, 12, 293.	2.6	7
160	Pulsed laser deposited zinc oxide thin films for optical gas sensor applications. , 2005, , .		6
161	Morphological and structural characterisation of osseointegrable Mn2+ and CO32â^' doped hydroxylapatite thin films. Materials Science and Engineering C, 2007, 27, 105-109.	7.3	6
162	Characteristics of LaB6 thin films grown by pulsed laser deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, 051509.	2.1	6

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163	Amorphous thin films in the galliumâ€“chalcogen system. Physica Status Solidi (B): Basic Research, 2016, 253, 1033-1037.	1.5	6
164	Thermal Stress Effect on the Structure and Properties of Single and Double Stacked Films of GeTe and SnSe. Physica Status Solidi (B): Basic Research, 2018, 255, 1700552.	1.5	6
165	Structural characterisation and thermal stability of SnSeGaSb stacked films. Philosophical Magazine, 2019, 99, 55-72.	1.6	6
166	SnSe2-Zn-Porphyrin Nanocomposite Thin Films for Threshold Methane Concentration Detection at Room Temperature. Chemosensors, 2020, 8, 134.	3.6	6
167	Electrical Properties of MIS Capacitors with AlN Films Synthesized by Pulsed Laser Deposition. Plasma Processes and Polymers, 2006, 3, 205-208.	3.0	5
168	Stoichiometry dependence of the optical properties of amorphous-like In<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.gif" overflow="scroll"><mml:msub><mml:mrow /><mml:mrow><mml:mi>x</mml:mi><mml:mo>â^'</mml:mo><mml:mi>w</mml:mi></mml:mrow></mml:msub></mml:math>Ga<mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.gif" overflow="scroll"><mml:msub><mml:mrow /><mml:mi>w</mml:mi></mml:msub></mml:math>Zn1â^'O1+0	6.1	5
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