

Carmen Ristoscu

List of Publications by Year in descending order

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141
papers

2,204
citations

236925

25
h-index

276875

41
g-index

143
all docs

143
docs citations

143
times ranked

2587
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in Laser Additive Manufacturing of Cobalt–Chromium Alloy Multi-Layer Mesoscopic Analytical Modelling with Experimental Correlations: From Micro-Dendrite Grains to Bulk Objects. <i>Nanomaterials</i> , 2022, 12, 802.	4.1	3
2	Laser additive manufacturing of bulk and powder ceramic materials: mathematical modeling with experimental correlations. <i>Rapid Prototyping Journal</i> , 2022, 28, 1520-1529.	3.2	1
3	Implant Surfaces Containing Bioglasses and Ciprofloxacin as Platforms for Bone Repair and Improved Resistance to Microbial Colonization. <i>Pharmaceutics</i> , 2022, 14, 1175.	4.5	6
4	Laser additive manufacturing of Co-Cr alloy and the induced defects thereof. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 121, 1385-1400.	3.0	3
5	Thermal Nonlinear Klein–Gordon Equation for Nano-/Micro-Sized Metallic Particle–Attosecond Laser Pulse Interaction. <i>Materials</i> , 2021, 14, 857.	2.9	1
6	Grain refinement and mechanical properties for AISI304 stainless steel single-tracks by laser melting deposition: Mathematical modelling versus experimental results. <i>Results in Physics</i> , 2021, 22, 103880.	4.1	14
7	Fourier two-temperature model to describe ultrafast laser pulses interaction with metals: A novel mathematical technique. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 392, 127155.	2.1	6
8	Laser Coatings via State-of-the-Art Additive Manufacturing: A Review. <i>Coatings</i> , 2021, 11, 296.	2.6	18
9	Synergistic effect in a two-phase laser procedure for production of silver nanoparticles colloids applicable in ophthalmology. <i>Optics and Laser Technology</i> , 2021, 138, 106850.	4.6	10
10	Bridging the analytical and artificial neural network models for keyhole formation with experimental verification in laser melting deposition: A novel approach. <i>Results in Physics</i> , 2021, 26, 104440.	4.1	11
11	Artificial Neural Network Algorithms for 3D Printing. <i>Materials</i> , 2021, 14, 163.	2.9	65
12	Composite Drug Delivery System Based on Amorphous Calcium Phosphate–Chitosan: An Efficient Antimicrobial Platform for Extended Release of Tetracycline. <i>Pharmaceutics</i> , 2021, 13, 1659.	4.5	5
13	An Analytical Multiple-Temperature Model for Flash Laser Irradiation on Single-Layer Graphene. <i>Nanomaterials</i> , 2020, 10, 1319.	4.1	8
14	Estimation of clad geometry and corresponding residual stress distribution in laser melting deposition: analytical modeling and experimental correlations. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 111, 77-91.	3.0	29
15	Three-Jet Powder Flow and Laser–Powder Interaction in Laser Melting Deposition: Modelling Versus Experimental Correlations. <i>Metals</i> , 2020, 10, 1113.	2.3	25
16	Fish Bone Derived Bi-Phasic Calcium Phosphate Coatings Fabricated by Pulsed Laser Deposition for Biomedical Applications. <i>Marine Drugs</i> , 2020, 18, 623.	4.6	14
17	Non-Fourier Estimate of Electron Temperature in Case of Femtosecond Laser Pulses Interaction with Metals. <i>Metals</i> , 2020, 10, 606.	2.3	12
18	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

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19	Functional Bioglassâ€”Biopolymer Double Nanostructure for Natural Antimicrobial Drug Extracts Delivery. <i>Nanomaterials</i> , 2020, 10, 385.	4.1	15
20	Antimicrobial and Cytocompatible Bovine Hydroxyapatite-Alumina-Zeolite Composite Coatings Synthesized by Pulsed Laser Deposition from Low-Cost Sustainable Natural Resources. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4026-4036.	6.7	14
21	Biomimetic Collagen/Zn2+-Substituted Calcium Phosphate Composite Coatings on Titanium Substrates as Prospective Bioactive Layer for Implants: A Comparative Study Spin Coating vs. MAPLE. <i>Nanomaterials</i> , 2019, 9, 692.	4.1	14
22	Thin WBx and WyTi1âˆ“yBx films deposited by combined magnetron sputtering and pulsed laser deposition technique. <i>Applied Surface Science</i> , 2019, 478, 505-513.	6.1	15
23	Gradient multifunctional biopolymer thin film assemblies synthesized by combinatorial MAPLE. <i>Applied Surface Science</i> , 2019, 466, 628-636.	6.1	12
24	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.	6.1	22
25	Prevention, Treatment and Tiagnosis of Pathogenic Infections by Using Pulsed Light Radiation Propagating Through Metamaterials. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 374, 012011.	0.6	0
26	Combinatorial Laser Synthesis of Biomaterial Thin Films: Selection and Processing for Medical Applications. <i>Springer Series in Materials Science</i> , 2018, , 309-338.	0.6	4
27	Metamaterials for Antimicrobial Biofilm Applications. , 2018, , 257-282.		4
28	Oxidation behaviour of composite CrN/(Cr,V)N coatings with different contents of vanadium induced by UV nanosecond laser pulses. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	3.3	2
29	Optical metamaterials for decontamination of translucent liquids and gases. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 385101.	2.8	6
30	Thin Films and Nanoparticles by Pulsed Laser Deposition: Wetting, Adherence, and Nanostructuring. , 2018, , 245-276.		2
31	Optoelectronics effects in modernization of advanced implants using periodical optical structure. , 2018, , .		1
32	Improvement in ultraviolet based decontamination rate using meta-materials. <i>Applied Surface Science</i> , 2017, 417, 40-47.	6.1	11
33	Femtosecond laser processing of NiPd single and 5x(Ni/Pd) multilayer thin films. <i>Applied Surface Science</i> , 2017, 417, 16-22.	6.1	5
34	Antimicrobial thin films based on ayurvedic plants extracts embedded in a bioactive glass matrix. <i>Applied Surface Science</i> , 2017, 417, 224-233.	6.1	15
35	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.	8.3	39
36	Laser Ablation of Biomaterials. , 2016, , .		0

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37	Functionalized Antimicrobial Composite Thin Films Printing for Stainless Steel Implant Coatings. <i>Molecules</i> , 2016, 21, 740.	3.8	19
38	Combinatorial MAPLE deposition of antimicrobial orthopedic maps fabricated from chitosan and biomimetic apatite powders. <i>International Journal of Pharmaceutics</i> , 2016, 511, 505-515.	5.2	21
39	Laser thin films deposition and characterization for biomedical applications. , 2016, , 77-125.		25
40	Bioactive glass thin films synthesized by advanced pulsed laser techniques. <i>Journal of Physics: Conference Series</i> , 2016, 764, 012020.	0.4	3
41	Surface-enhanced Raman scattering activity of niobium surface after irradiation with femtosecond laser pulses. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	6
42	Correlation between electronic structure and photocatalytic properties of non-metal doped TiO ₂ /ZrO ₂ thin films obtained by pulsed laser deposition method. <i>Vacuum</i> , 2015, 114, 166-171.	3.5	27
43	Structural and biological evaluation of lignin addition to simple and silver-doped hydroxyapatite thin films synthesized by matrix-assisted pulsed laser evaporation. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 5333.	3.6	47
44	Influence of the scanning conditions on the characteristics of the nanostructures fabricated by laser ablation in liquid. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
45	Phenomenological model of growth of TiO ₂ films for biomedicine. , 2015, , .		0
46	Stainless steel surface biofunctionalization with PMMA-bioglass coatings: compositional, electrochemical corrosion studies and microbiological assay. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 195.	3.6	21
47	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.	5.0	33
48	Deposition and surface modification of thin solid structures by high-intensity pulsed laser irradiation. , 2015, , 287-313.		1
49	Electrical characterization of Si doped AlN films synthesized by pulsed laser deposition. <i>EPJ Applied Physics</i> , 2015, 70, 10102.	0.7	0
50	Synthesis of Nanostructured PLD AlN Films: XRD and Surface-Enhanced Raman Scattering Studies. <i>Micro and Nanosystems</i> , 2014, 6, 9-13.	0.6	4
51	Characterisation of the charge transport mechanism in pulsed laser deposited AlN:Si films. , 2014, , .		0
52	Laser synthesis of nanometric iron oxide films for thermo-sensing applications. <i>Materials Research Bulletin</i> , 2014, 50, 148-154.	5.2	4
53	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.	3.0	29
54	Effect of the preparation method on the optical properties of GeS _{1.2} — AgI films. , 2014, , .		0

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55	The effect of laser wavelength on the ablation rate of carbon. Applied Physics A: Materials Science and Processing, 2014, 117, 395-400.	2.3	53
56	Combinatorial MAPLE gradient thin film assemblies signalling to human osteoblasts. Biofabrication, 2014, 6, 035010.	7.1	39
57	Antifungal activity of Ag:hydroxyapatite thin films synthesized by pulsed laser deposition on Ti and Ti modified by TiO ₂ nanotubes substrates. Applied Surface Science, 2014, 293, 37-45.	6.1	65
58	VIS/IR spectroscopy of thin AlN films grown by pulsed laser deposition at 400Â°C and 800Â°C and various N ₂ pressures. Journal of Physics: Conference Series, 2014, 514, 012001.	0.4	10
59	Biomaterial Thin Films by Soft Pulsed Laser Technologies for Biomedical Applications. Springer Series in Materials Science, 2014, , 271-294.	0.6	6
60	Nanocrystalline thin films with charge density wave ground state. Vacuum, 2013, 98, 93-99.	3.5	2
61	Biomimetic Coatings by Pulsed Laser Deposition. Biological and Medical Physics Series, 2013, , 163-191.	0.4	2
62	Combinatorial matrix-assisted pulsed laser evaporation: Single-step synthesis of biopolymer compositional gradient thin film assemblies. Applied Physics Letters, 2012, 101, .	3.3	36
63	Laser technology for synthesis of AlN films: influence of the incident laser fluence on the films microstructure. Journal of Physics: Conference Series, 2012, 356, 012003.	0.4	3
64	Study of the charge transport mechanism in pulsed laser deposited AlN:Si films. Journal of Physics: Conference Series, 2012, 356, 012038.	0.4	0
65	Synthesis of biomaterial thin films by pulsed laser technologies: Electrochemical evaluation of bioactive glass-based nanocomposite coatings for biomedical applications. Materials Science and Engineering C, 2012, 32, 1152-1157.	7.3	28
66	Charge density waves in nanocrystalline thin films of blue bronze K _{0.3} MoO ₃ . Physica B: Condensed Matter, 2012, 407, 1889-1893.	2.7	3
67	Levan Nanostructured Thin Films by MAPLE Assembling. Biomacromolecules, 2011, 12, 2251-2256.	5.4	76
68	Effect of Pulse Laser Duration and Shape on PLD Thin Films Morphology and Structure. , 2011, , .		0
69	Femtosecond laser modification of multilayered TiAlN/TiN coating. Surface and Coatings Technology, 2011, 206, 411-416.	4.8	17
70	Synthesis of ZnO thin films by 40 ps @ 532 nm laser pulses. Applied Physics A: Materials Science and Processing, 2011, 104, 871-876.	2.3	2
71	Optical studies of (AsSe) ₁₀₀ ~x Sb x thin films. Applied Physics A: Materials Science and Processing, 2011, 104, 959-962.	2.3	2
72	Tailoring immobilization of immunoglobulin by excimer laser for biosensor applications. Journal of Biomedical Materials Research - Part A, 2011, 96A, 384-394.	4.0	12

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73	Biocompatibility and bioactivity enhancement of Ce stabilized ZrO_2 doped HA coatings by controlled porosity change of Al_2O_3 substrates. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 96B, 218-224.	3.4	12
74	Structural characterization of AlN films synthesized by pulsed laser deposition. Applied Surface Science, 2011, 257, 5370-5374.	6.1	27
75	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
76	Detection of charge density wave ground state in granular thin films of blue bronze $K_0.3MoO_3$ by femtosecond spectroscopy. Journal of Applied Physics, 2011, 110, .	2.5	9
77	Study of the charge transport mechanism in AlN:Cr films synthesized by pulsed laser deposition. Journal of Physics: Conference Series, 2010, 223, 012037.	0.4	0
78	Ellipsometric characterization of AlN films synthesized by Pulsed-Laser-Deposition. Journal of Physics: Conference Series, 2010, 253, 012032.	0.4	1
79	Study of the charge transport mechanism in pulsed laser deposited AlN:Cr films. Journal of Physics: Conference Series, 2010, 253, 012036.	0.4	0
80	Metal oxide nanoparticles synthesized by pulsed laser ablation for proton exchange membrane fuel cells. Journal of Power Sources, 2010, 195, 7776-7780.	7.8	15
81	Advanced Biomimetic Implants Based on Nanostructured Coatings Synthesized by Pulsed Laser Technologies. Springer Series in Materials Science, 2010, , 235-260.	0.6	22
82	Shallow hydroxyapatite coatings pulsed laser deposited onto Al_2O_3 substrates with controlled porosity: correlation of morphological characteristics with in vitro testing results. Applied Surface Science, 2009, 255, 5312-5317.	6.1	11
83	Surface morphology of AlN films synthesized by pulsed laser deposition. Vacuum, 2009, 84, 155-157.	3.5	10
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	Spectroscopic studies of $(AsSe)_{100-x}Ag_x$ thin films. Applied Surface Science, 2009, 255, 9691-9694.	6.1	7
86	Biofunctional alendronate- Hydroxyapatite thin films deposited by Matrix Assisted Pulsed Laser Evaporation. Biomaterials, 2009, 30, 6168-6177.	11.4	68
87	Trap space charge limited current in pulsed laser deposited AlN:Cr films. , 2009, , .		0
88	Strontium-substituted hydroxyapatite coatings synthesized by pulsed-laser deposition: In vitro osteoblast and osteoclast response. Acta Biomaterialia, 2008, 4, 1885-1893.	8.3	313
89	A Perspective of Pulsed Laser Deposition (PLD) in Surface Engineering: Alumina Coatings and Substrates. Key Engineering Materials, 2008, 384, 185-212.	0.4	6
90	MEASUREMENTS OF QUANTUM EFFICIENCY OF MG FILMS PRODUCED BY PULSED LASER ABLATION DEPOSITION FOR APPLICATION TO BRIGHT ELECTRON SOURCES. International Journal of Modern Physics A, 2007, 22, 4051-4060.	1.5	1

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91	Photoemission characteristics of PLD grown Mg films under UV laser irradiation. Journal Physics D: Applied Physics, 2007, 40, 5965-5970.	2.8	13
92	Enhanced gas sensing of Au nanocluster-doped or -coated zinc oxide thin films. Journal of Applied Physics, 2007, 102, .	2.5	20
93	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
94	Mg based photocathodes for high brightness RF photoinjectors. Applied Surface Science, 2007, 253, 6531-6534.	6.1	8
95	Study of the gradual interface between hydroxyapatite thin films PLD grown onto Ti-controlled sublayers. Applied Surface Science, 2007, 254, 1150-1154.	6.1	15
96	Nanocrystalline Er:YAG thin films prepared by pulsed laser deposition: An electron microscopy study. Applied Surface Science, 2007, 253, 8268-8272.	6.1	9
97	Femtosecond pulse shaping for phase and morphology control in PLD: Synthesis of cubic SiC. Applied Surface Science, 2006, 252, 4857-4862.	6.1	16
98	Matrix assisted pulsed laser evaporation processing of triacetate-pullulan polysaccharide thin films for drug delivery systems. Applied Surface Science, 2006, 252, 4647-4651.	6.1	31
99	Growth and characterization of $\text{Ti}^2\text{-SiC}$ films obtained by fs laser ablation. Applied Surface Science, 2006, 252, 4672-4677.	6.1	25
100	Diffraction optical elements for photonic gas sensors. , 2005, , .		1
101	Structural and optical characterization of AlN films grown by pulsed laser deposition. Applied Surface Science, 2005, 248, 411-415.	6.1	44
102	SnO ₂ nanostructured films obtained by pulsed laser ablation deposition. Applied Surface Science, 2005, 247, 95-100.	6.1	31
103	Pulsed laser deposition of Mg thin films on Cu substrates for photocathode applications. Applied Surface Science, 2005, 248, 397-401.	6.1	13
104	Nanostructured ZnO coatings grown by pulsed laser deposition for optical gas sensing of butane. Journal of Applied Physics, 2005, 98, 074312.	2.5	33
105	<title>Role of laser pulse duration and ambient nitrogen pressure in deposition of AlN thin films</title>. , 2004, 5581, 356.		0
106	Effects of pulse laser duration and ambient nitrogen pressure in PLD of AlN. Applied Physics A: Materials Science and Processing, 2004, 79, 927-929.	2.3	5
107	<title>Optical emission accompanying pulsed laser ablation of graphite: experiment and kinetics</title>. , 2004, , .		0
108	<title>Pulsed laser deposition of chromium oxides thin films: chemical stabilizations by capping and doping</title>. , 2004, , .		0

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109	Pulsed laser deposition of chromium oxides for applications in spintronics. , 2003, , .		0
110	Optical emission spectroscopy and time-of-flight investigations of plasmas generated from AlN targets in cases of pulsed laser deposition with sub-ps and ns ultraviolet laser pulses. Journal of Applied Physics, 2003, 93, 2244-2250.	2.5	11
111	<title>Particulates in pulsed laser deposition: formation mechanisms and possible approaches to their elimination</title>. , 2002, 4762, 64.		4
112	<title>Quasi-optical dynamical surface resistance characterization of HTS laser-ablated films</title>. , 2002, 4762, 239.		0
113	Mechanical properties improvement of pulsed laser-deposited hydroxyapatite thin films by high energy ion-beam implantation. Applied Surface Science, 2002, 186, 483-489.	6.1	26
114	Plume emissions accompanying 248 nm laser ablation of graphite in vacuum: Effects of pulse duration. Journal of Applied Physics, 2002, 91, 6162-6172.	2.5	62
115	Calcium phosphate thin film processing by pulsed laser deposition and in situ assisted ultraviolet pulsed laser deposition. Journal of Materials Science: Materials in Medicine, 2002, 13, 1167-1173.	3.6	36
116	Influence of the deposition configuration on the composition, structure and morphology of La _{0.6} Y _{0.07} Ca _{0.33} MnO ₃ thin films obtained by pulsed laser deposition. Solid State Sciences, 2001, 3, 1253-1256.	0.7	2
117	Role of laser pulse duration and gas pressure in deposition of AlN thin films. Journal of Applied Physics, 2001, 90, 456-461.	2.5	25
118	La ₂ O ₃ -doped BaTiO ₃ thin films obtained by pulsed laser deposition. Journal of Modern Optics, 2001, 48, 2185-2189.	1.3	1
119	Theoretical and experimental parametric study of the synthesis process of TiN by reactive pulsed laser deposition. , 2001, , .		0
120	Monte Carlo simulation of transit of ablated atoms through ambient gas. , 2001, 4430, 275.		0
121	Influence of substrate orientation on the characteristics of Sr-ferrite thin films obtained by pulsed laser deposition. , 2001, , .		1
122	Influence of a TiN interlayer on the microstructure and mechanical properties of hydroxyapatite films grown by pulsed laser deposition. , 2001, 4397, 319.		0
123	Aspects in HTS laser ablation thin film technology and characterization. , 2001, 4397, 309.		0
124	La ₂ O ₃ -doped BaTiO ₃ thin films obtained by pulsed laser deposition. Journal of Modern Optics, 2001, 48, 2185-2189.	1.3	1
125	Hydroxyapatite thin films growth by pulsed laser deposition: effects of the Ti alloys substrate passivation on the film properties by the insertion of a TiN buffer layer. , 2001, , .		0
126	Trap-assisted tunneling at temperatures near 77 K in laser annealed Si n+-p junctions. Journal of Applied Physics, 2001, 90, 860-865.	2.5	4

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127	Ablation study with a Nd:YAG laser in enhanced free-running regime. , 2001, , .		1
128	<title>Numerical description of the interactions between plasma and high-intensity UV laser pulses of nanosecond duration</title>. , 2000, 4070, 351.		0
129	Growth and characterization of pulsed laser-deposited Mnâ€Zn ferrite thin films. Vacuum, 2000, 58, 294-299.	3.5	3
130	Sr-ferrite thin films grown on sapphire by pulsed laser deposition. Applied Surface Science, 2000, 168, 108-113.	6.1	22
131	Pulsed laser deposition of barium hexaferrite (BaFe ₁₂ O ₁₉) thin films. Applied Surface Science, 2000, 154-155, 485-491.	6.1	28
132	Pulsed laser deposition of hydroxyapatite thin films on Ti-5Al-2.5Fe substrates with and without buffer layers. Applied Surface Science, 2000, 168, 127-131.	6.1	97
133	Structural comparison between La _{0.60} Y _{0.07} Ca _{0.33} MnO ₃ bulk and pulsed laser deposited thin films. Journal of Magnetism and Magnetic Materials, 2000, 211, 54-60.	2.3	5
134	Pulsed-laser deposition of hydroxyapatite thin layer on Ti alloy collectors with and without buffer interlayers. , 1999, , .		1
135	Theoretical modelling of phenomena in the pulsed-laser deposition process: Application to Ti targets ablation in low-pressure N ₂ . Journal of Applied Physics, 1999, 86, 6096-6106.	2.5	31
136	Heat transfer and propagation of plumes in laser reactive ablation of a Ti target in low-pressure N ₂ . , 1999, , .		0
137	AlN thin films obtained by pulsed laser deposition and reactive sputtering. , 0, , .		1
138	Sea Snail: An Alternative Source for Nano-Bioceramic Production. Key Engineering Materials, 0, 493-494, 781-786.	0.4	10
139	The Influence of the Foaming Agents on the Porosity of the PM Hydroxyapatite-Based Biocomposites Processed by Two-Step Sintering. Advanced Materials Research, 0, 1128, 178-186.	0.3	1
140	Pulsed Laser-Deposited TiO ₂ -based Films: Synthesis, Electronic Structure and Photocatalytic Activity. , 0, , .		2
141	Biopolymer Thin Films Synthesized by Advanced Pulsed Laser Techniques. , 0, , .		10