

Emilia Pecheva

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

393
citations

840776

11
h-index

794594

19
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41
all docs

41
docs citations

41
times ranked

487
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics of hydroxyapatite deposition on solid substrates modified by sequential implantation of Ca and P ions. <i>Applied Surface Science</i> , 2004, 235, 176-181.	6.1	49
2	White Light Scanning Interferometry Adapted for Large-Area Optical Analysis of Thick and Rough Hydroxyapatite Layers. <i>Langmuir</i> , 2007, 23, 3912-3918.	3.5	42
3	High Speed Imaging of Cavitation around Dental Ultrasonic Scaler Tips. <i>PLoS ONE</i> , 2016, 11, e0149804.	2.5	29
4	Stimulated in vitro bone-like apatite formation by a novel laser processing technique. <i>Chemical Engineering Journal</i> , 2008, 137, 144-153.	12.7	27
5	Femtosecond laser ablation of dentin and enamel for fast and more precise dental cavity preparation. <i>Materials Science and Engineering C</i> , 2018, 90, 433-438.	7.3	27
6	Hydroxyapatite Grown on a Native Extracellular Matrix: Initial Interactions with Human Fibroblasts. <i>Langmuir</i> , 2007, 23, 9386-9392.	3.5	26
7	Hydroxyapatite growth induced by native extracellular matrix deposition on solid surfaces. , 2005, 9, 9-12.		26
8	Porous silicon as a substrate for hydroxyapatite growth. <i>Vacuum</i> , 2004, 76, 135-138.	3.5	18
9	Ion implantation modified stainless steel as a substrate for hydroxyapatite deposition. Part I. Surface modification and characterization. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 435-440.	3.6	17
10	Ion beam and laser processing for hydroxyapatite formation. <i>Vacuum</i> , 2004, 76, 339-342.	3.5	12
11	Improved interaction of osteoblast-like cells with apatite-nanodiamond coatings depends on fibronectin. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 1891-1900.	3.6	12
12	Ion implantation modified stainless steel as a substrate for hydroxyapatite deposition. Part II. Biomimetic layer growth and characterization. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 441-447.	3.6	11
13	Calcium phosphate formation on plasma immersion ion implanted low density polyethylene and polytetrafluorethylene surfaces. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 1145-1153.	3.6	11
14	Apatite-nanodiamond composite as a functional coating of stainless steel. <i>Surface and Interface Analysis</i> , 2010, 42, 475-480.	1.8	11
15	Peculiarities of hydroxyapatite/nanodiamond composites as novel implants. <i>Journal of Physics: Conference Series</i> , 2007, 93, 012049.	0.4	10
16	Kinetics of hydroxyapatite deposition on solid substrates modified by sequential implantation of Ca and P ions. <i>Applied Surface Science</i> , 2004, 235, 170-175.	6.1	9
17	Effect of Nanodiamond Particles Incorporation in Hydroxyapatite Coatings. <i>ECS Transactions</i> , 2009, 25, 403-410.	0.5	8
18	The performance characteristics of a piezoelectric ultrasonic dental scaler. <i>Medical Engineering and Physics</i> , 2016, 38, 199-203.	1.7	7

#	ARTICLE	IF	CITATIONS
19	A novel laser-liquid-solid interaction process for hydroxyapatite formation on porous silicon. , 2005, , .		4
20	Towards real time 3D quantitative characterisation of <i>in situ</i> layer growth using white light interference microscopy. Journal of Physics: Conference Series, 2010, 253, 012017.	0.4	4
21	The Advantages of Polymer Composites with Detonation Nanodiamond Particles for Medical Applications. , 0, , .		4
22	Study of the calcium phosphate layer grown on AISI 316 stainless steel from simulated body fluid. Journal of Materials Science: Materials in Electronics, 2003, 14, 775-776.	2.2	3
23	Study of modified solid surfaces by nanostructured CdSe in SiO ₂ thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 1070-1074.	0.8	3
24	Natural Opal as a Model System for Studying the Process of Biomineralization. Solid State Phenomena, 2005, 106, 75-78.	0.3	3
25	Study of Organosilicon Plasma Polymer Used in Composite Layers with Biomedical Application. , 2010, , .		3
26	Precise femtosecond laser ablation of dental hard tissue: preliminary investigation on adequate laser parameters. Journal of Physics: Conference Series, 2017, 794, 012036.	0.4	3
27	Enhancement of hydroxyapatite formation by laser-liquid-solid interaction. , 2004, , .		2
28	Hydroxyapatite kinetic deposition on solid substrates induced by laser-liquid-solid interaction. , 2005, , .		2
29	Formation of Surfaces Organized on both a Micro- and Nanometer Scale by a Laser-Liquid-Solid-Interaction Process. Plasma Processes and Polymers, 2006, 3, 248-252.	3.0	2
30	Effect of Ammonia Plasma Treatment on the Biological Performance of Plasma Polymerized Hexamethyldisiloxane. , 2010, , .		2
31	Ion beam patterning of solid surfaces for hydroxyapatite deposition. Vacuum, 2004, 76, 335-338.	3.5	1
32	Hydroxyapatite Growth on Glass/CdSe/SiO ₂ Nanostructures. Solid State Phenomena, 2005, 106, 123-126.	0.3	1
33	Optimised 3D surface measurement of hydroxyapatite layers using adapted white light scanning interferometry. , 2006, 6341, 687.		1
34	Bioactivity of Polycrystalline Silicon Layers. Journal of Nanoscience and Nanotechnology, 2008, 8, 924-930.	0.9	1
35	Hydroxyapatite Reinforced Coatings with Incorporated Detonationally Generated Nanodiamonds. , 2010, , .		1
36	Improvement in measurements of hydroxyapatite layers by hybrid high dynamic range image processing in white-light interferometry. Materials Today: Proceedings, 2017, 4, S36-S43.	1.8	1

#	ARTICLE	IF	CITATIONS
37	Ion-beam-modified surfaces as substrates for hydroxyapatite growth induced by laser-liquid-solid interaction. , 2004, , .		0
38	Polycrystalline Silicon: a Biocompatibility Assay. , 2010, , .		0
39	BIOACTIVITY OF NANOSTRUCTURED SURFACES. NATO Science Series Series II, Mathematics, Physics and Chemistry, 2006, , 505-510.	0.1	0