

Nenad L Ignjatovic

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5147683/publications.pdf>

Version: 2024-02-01

95
papers

2,493
citations

172207

29
h-index

214527

47
g-index

97
all docs

97
docs citations

97
times ranked

2752
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal Structure of Hydroxyapatite Nanorods Synthesized by Sonochemical Homogeneous Precipitation. <i>Crystal Growth and Design</i> , 2008, 8, 2217-2222.	1.4	207
2	Synthesis and properties of hydroxyapatite/poly- γ -lactide composite biomaterials. <i>Biomaterials</i> , 1999, 20, 809-816.	5.7	195
3	A study of HAp/PLLA composite as a substitute for bone powder, using FT-IR spectroscopy. <i>Biomaterials</i> , 2001, 22, 571-575.	5.7	130
4	Synthesis and application of hydroxyapatite/poly(lactide composite biomaterial. <i>Applied Surface Science</i> , 2004, 238, 314-319.	3.1	86
5	Nanoparticles of cobalt-substituted hydroxyapatite in regeneration of mandibular osteoporotic bones. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 343-354.	1.7	83
6	Synthetical bone-like and biological hydroxyapatites: a comparative study of crystal structure and morphology. <i>Biomedical Materials (Bristol)</i> , 2011, 6, 045005.	1.7	82
7	Crystal structure of cobalt-substituted calcium hydroxyapatite nanopowders prepared by hydrothermal processing. <i>Journal of Applied Crystallography</i> , 2010, 43, 320-327.	1.9	81
8	Chitosan-PLGA polymer blends as coatings for hydroxyapatite nanoparticles and their effect on antimicrobial properties, osteoconductivity and regeneration of osseous tissues. <i>Materials Science and Engineering C</i> , 2016, 60, 357-364.	3.8	76
9	Hydrothermal Synthesis of Nanosized Pure and Cobalt-Exchanged Hydroxyapatite. <i>Materials and Manufacturing Processes</i> , 2009, 24, 1096-1103.	2.7	74
10	Rare-earth (Gd ³⁺ , Yb ³⁺ /Tm ³⁺ , Eu ³⁺) co-doped hydroxyapatite as magnetic, up-conversion and down-conversion materials for multimodal imaging. <i>Scientific Reports</i> , 2019, 9, 16305.	1.6	74
11	Evaluation of hot-pressed hydroxyapatite/poly-L-lactide composite biomaterial characteristics. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 71B, 284-294.	3.0	69
12	Multifunctional hydroxyapatite and poly(d,l-lactide-co-glycolide) nanoparticles for the local delivery of cholecalciferol. <i>Materials Science and Engineering C</i> , 2013, 33, 943-950.	3.8	57
13	Instrumental methods and techniques for structural and physicochemical characterization of biomaterials and bone tissue: A review. <i>Materials Science and Engineering C</i> , 2017, 79, 930-949.	3.8	56
14	Micromechanical properties of a hydroxyapatite/poly-l-lactide biocomposite using nanoindentation and modulus mapping. <i>Journal of the European Ceramic Society</i> , 2007, 27, 1559-1564.	2.8	49
15	Micro- and nano-injectable composite biomaterials containing calcium phosphate coated with poly(d,l-lactide-co-glycolide). <i>Acta Biomaterialia</i> , 2007, 3, 927-935.	4.1	47
16	Insights into the kinetics of thermally induced crystallization of amorphous calcium phosphate. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29221-29235.	1.3	46
17	Gamma irradiation processing of hydroxyapatite/poly-L-lactide composite biomaterial. <i>Radiation Physics and Chemistry</i> , 2003, 67, 375-379.	1.4	44
18	Controlled assembly of poly(d,l-lactide-co-glycolide)/hydroxyapatite core-shell nanospheres under ultrasonic irradiation. <i>Acta Biomaterialia</i> , 2009, 5, 208-218.	4.1	44

#	ARTICLE	IF	CITATIONS
19	Investigating an organ-targeting platform based on hydroxyapatite nanoparticles using a novel in situ method of radioactive 125Iodine labeling. <i>Materials Science and Engineering C</i> , 2014, 43, 439-446.	3.8	42
20	Microstructural characteristics of calcium hydroxyapatite/poly- l-lactide based composites. <i>Journal of Microscopy</i> , 1999, 196, 243-248.	0.8	40
21	A novel nano drug delivery system based on tige cycline-loaded calcium phosphate coated with poly-dl-lactide-co-glycolide. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 231-239.	1.7	40
22	Improved percutaneous delivery of ketoprofen using combined application of nanocarriers and silicon microneedles. <i>Journal of Pharmacy and Pharmacology</i> , 2013, 65, 1451-1462.	1.2	39
23	Enhanced Osteogenesis of Nanosized Cobalt-substituted Hydroxyapatite. <i>Journal of Bionic Engineering</i> , 2015, 12, 604-612.	2.7	33
24	Chitosan oligosaccharide lactate coated hydroxyapatite nanoparticles as a vehicle for the delivery of steroid drugs and the targeting of breast cancer cells. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6957-6968.	2.9	33
25	Cytotoxicity and fibroblast properties during in vitro test of biphasic calcium phosphate/poly-dl-lactide-co-glycolide biocomposites and different phosphate materials. <i>Microscopy Research and Technique</i> , 2006, 69, 976-982.	1.2	32
26	Biphasic calcium phosphate coated with poly-d,l-lactide-co-glycolide biomaterial as a bone substitute. <i>Journal of the European Ceramic Society</i> , 2007, 27, 1589-1594.	2.8	32
27	Poly(D,L-lactide-co-glycolide)/hydroxyapatite core-shell nanosphere. Part 2: Simultaneous release of a drug and a prodrug (clindamycin and clindamycin phosphate). <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 82, 414-421.	2.5	32
28	Radiation-induced degradation of hydroxyapatite/poly L-lactide composite biomaterial. <i>Radiation Physics and Chemistry</i> , 2007, 76, 722-728.	1.4	31
29	Hydrothermally processed 1D hydroxyapatite: Mechanism of formation and biocompatibility studies. <i>Materials Science and Engineering C</i> , 2016, 68, 746-757.	3.8	31
30	Substitution of Osteoporotic Alveolar Bone by Biphasic Calcium Phosphate/Poly-DL-lactide-co-glycolide Biomaterials. <i>Journal of Biomaterials Applications</i> , 2007, 21, 317-328.	1.2	30
31	Poly(d,l-lactide-co-glycolide)/hydroxyapatite core-shell nanospheres. Part 1: A multifunctional system for controlled drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 82, 404-413.	2.5	30
32	New biocomposite [biphasic calcium phosphate/ poly-DL-lactide-co-glycolide/biostimulative agent] filler for reconstruction of bone tissue changed by osteoporosis. <i>Journal of Materials Science: Materials in Medicine</i> , 2005, 16, 621-626.	1.7	29
33	Selective anticancer activity of hydroxyapatite/chitosan-poly(d,l)-lactide-co-glycolide particles loaded with an androstane-based cancer inhibitor. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 629-639.	2.5	25
34	Synthesis and Characterization of Hydroxyapatite-Collagen Biocomposite Materials. <i>Materials Science Forum</i> , 2003, 413, 269-0.	0.3	24
35	Influence of the Shape of Copper Powder Particles on the Crystal Structure and Some Decisive Characteristics of the Metal Powders. <i>Metals</i> , 2019, 9, 56.	1.0	24
36	Repair of Bone Tissue Affected by Osteoporosis with Hydroxyapatite-Poly-L-lactide (HAp-PLLA) With and Without Blood Plasma. <i>Journal of Biomaterials Applications</i> , 2005, 20, 179-190.	1.2	22

#	ARTICLE	IF	CITATIONS
37	Poly(d,l-lactide-co-glycolide)/hydroxyapatite core-shell nanospheres. Part 3: Properties of hydroxyapatite nano-rods and investigation of a distribution of the drug within the composite. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 87, 226-235.	2.5	20
38	Size effect of calcium phosphate coated with poly(DL-lactide-co-glycolide) on healing processes in bone reconstruction. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 94B, 108-117.	1.6	19
39	Biphasic Calcium Phosphate/Poly-(DL-Lactide-Co-Glycolide) Biocomposite as Filler and Blocks for Reparation of Bone Tissue. <i>Materials Science Forum</i> , 2005, 494, 519-524.	0.3	18
40	Thermal crystallization of amorphous calcium phosphate combined with citrate and fluoride doping: a novel route to produce hydroxyapatite bioceramics. <i>Journal of Materials Chemistry B</i> , 2021, 9, 4832-4845.	2.9	18
41	Comparative morphological and crystallographic analysis of copper powders obtained under different electrolysis conditions. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 1275-1284.	1.7	16
42	Stereological analysis of the poly-(dl-lactide-co-glycolide) submicron sphere prepared by solvent/non-solvent chemical methods and centrifugal processing. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 1339-1344.	1.7	15
43	The influence of gamma radiation on the molecular weight and glass transition of PLLA and HAp/PLLA nanocomposite. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 2744-2749.	0.6	14
44	Anaphoretical/oxidative approach to the in-situ synthesis of adherent hydroxyapatite/titanium oxide composite coatings on titanium. <i>Surface and Coatings Technology</i> , 2019, 358, 688-694.	2.2	14
45	Anodizing/Anaphoretic Electrodeposition of Nano-Calcium Phosphate/Chitosan Lactate Multifunctional Coatings on Titanium with Advanced Corrosion Resistance, Bioactivity, and Antibacterial Properties. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 3088-3102.	2.6	14
46	Molecular spectroscopy analysis of the substitution of bone tissue by HAp/PLLA composite biomaterial. <i>Spectroscopy</i> , 2004, 18, 553-565.	0.8	12
47	Synthesis and Characterization of Hydroxyapatite/Fullerenol Nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 1538-1542.	0.9	12
48	Structure and characteristics of the hot pressed hydroxyapatite/poly-L-lactide composite. <i>Science of Sintering</i> , 2002, 34, 79-93.	0.5	12
49	Analysis of In Vivo Substitution of Bone Tissue by HAp/PLLA Composite Biomaterial with PLLA of Different Molecular Weights Using FTIR Spectroscopy. <i>Materials Science Forum</i> , 2000, 352, 143-150.	0.3	11
50	Stress analysis in hydroxyapatite/poly-l-lactide composite biomaterials. <i>Computational Materials Science</i> , 2001, 20, 275-283.	1.4	11
51	Poly(d,l-lactide-co-glycolide)/hydroxyapatite core-shell nanospheres. Part 4: A change of the surface properties during degradation process and the corresponding in vitro cellular response. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 91, 144-153.	2.5	11
52	Spectrophotometric determination of phosphorus in coal and coal ash using bismuth-phosphomolybdate complex. <i>Journal of the Serbian Chemical Society</i> , 2003, 68, 65-73.	0.4	11
53	The Formation and Characterization of Nanocrystalline Phases by Mechanical Milling of Biphasic Calcium Phosphate/Poly-L-Lactide Biocomposite. <i>Materials Transactions</i> , 2006, 47, 2980-2986.	0.4	10
54	Biodegradable composites based on nanocrystalline calcium phosphate and bioresorbable polymers. <i>Advances in Applied Ceramics</i> , 2008, 107, 142-147.	0.6	10

#	ARTICLE	IF	CITATIONS
55	Nanotechnologies for early diagnosis, in situ disease monitoring, and prevention. , 2018, , 1-92.		10
56	Simultaneous anodization/anaphoretic electrodeposition synthesis of nano calcium phosphate/titanium oxide composite coatings assisted with chitosan oligosaccharide lactate. Materials Letters, 2020, 261, 127121.	1.3	10
57	Hydroxyapatite/poly-L-lactide (Collagen) Biocomposite with Poly-L-lactide of Different Molecular Weights. Advanced Engineering Materials, 2000, 2, 511-514.	1.6	9
58	Preparation of smallest microparticles of poly(D,L-lactide) by modified precipitation method: Influence of the process parameters. Microscopy Research and Technique, 2008, 71, 86-92.	1.2	9
59	Synthesis and Characterization of Biphasic Calcium Phosphate/ Poly-(DL-Lactide-Co-Glycolide) Biocomposite. Materials Science Forum, 2005, 494, 537-542.	0.3	8
60	Influence of ultrasonic processing on the macromolecular properties of poly (d,l-lactide-co-glycolide) alone and in its biocomposite with hydroxyapatite. Ultrasonics Sonochemistry, 2010, 17, 902-908.	3.8	8
61	<i>In Vitro</i> Evaluation of Nanoscale Hydroxyapatite-Based Bone Reconstructive Materials with Antimicrobial Properties. Journal of Nanoscience and Nanotechnology, 2016, 16, 1420-1428.	0.9	8
62	The effect of the androstane lung cancer inhibitor content on the cell-selective toxicity of hydroxyapatite-chitosan-PLGA nanocomposites. Materials Science and Engineering C, 2018, 89, 371-377.	3.8	8
63	Injectable polydimethylsiloxane-hydroxyapatite composite cement. Bio-Medical Materials and Engineering, 2003, 13, 401-10.	0.4	8
64	XRD Analysis of Calcium Phosphate and Biocomposite Calcium Phosphate/Bioresorbable Polymer. Materials Science Forum, 2006, 518, 507-512.	0.3	7
65	Spectroscopic characterization of bone tissue of experimental animals after glucocorticoid treatment and recovery period. Journal of Molecular Structure, 2014, 1074, 315-320.	1.8	6
66	Controllable Synthesis of Horseradish Peroxidase Loaded Poly(D,L-lactide) Nanospheres. Journal of Bionanoscience, 2009, 3, 22-32.	0.4	6
67	Nanomaterial N-CP/DLPLG as potential tissue graft in osteoreparation in combination with bone marrow cells on subcutaneous implantation model. Hemijska Industrija, 2008, 62, 205-210.	0.3	6
68	Efficacy of nanocrystalline bone substitute biphasic calcium phosphate/poly-DL-lactide-co-glycolide for periodontal intrabony defects filling. Vojnosanitetski Pregled, 2015, 72, 689-695.	0.1	6
69	Germanium-doped hydroxyapatite: Synthesis and characterization of a new substituted apatite. Ceramics International, 2022, 48, 27693-27702.	2.3	6
70	Hormone receptor binding, selectivity and cytotoxicity of steroid D-homo lactone loaded chitosan nanoparticles for the treatment of breast and prostate cancer cells. Colloids and Surfaces B: Biointerfaces, 2022, 216, 112597.	2.5	5
71	Apatite Formation on Nanomaterial Calcium Phosphate/poly-DL-lactide-co-glycolide in Simulated Body Fluid. Journal of Applied Biomaterials and Functional Materials, 2012, 10, 43-48.	0.7	4
72	In vitro evaluation of a multifunctional nano drug delivery system based on tigecycline-loaded calcium-phosphate/ poly-DL-lactide-co-glycolide. Bio-Medical Materials and Engineering, 2014, 24, 1647-1658.	0.4	4

#	ARTICLE	IF	CITATIONS
73	Determination of thermodynamic interactions of poly(l-lactide) and biphasic calcium phosphate/poly(l-lactide) composite by inverse gas chromatography at infinite dilution. Journal of Materials Science, 2014, 49, 5076-5086.	1.7	4
74	Effects of hydroxyapatite@poly-lactide-co-glycolide nanoparticles combined with Pb and Cd on liver and kidney parenchyma after the reconstruction of mandibular bone defects. Toxicology Research, 2019, 8, 287-296.	0.9	4
75	Ectopic osteogenesis and hematopoiesis after implantation of bone marrow cells seeded on HAP/PLLA scaffold. Hemijska Industrija, 2009, 63, 301-307.	0.3	4
76	Preparation of TiO ₂ and ZnO Thin Films by Dip-Coating Method. Materials Science Forum, 1998, 282-283, 147-152.	0.3	3
77	In Vitro and In Vivo Investigation of Collagen - C₆₀(OH)₂₄ Interaction. Materials Science Forum, 2004, 453-454, 561-566.	0.3	3
78	Preparation and Properties of Polymeric and Composite Bioresorbable Barrier Membranes. Materials Science Forum, 2004, 453-454, 537-542.	0.3	3
79	Nanoindentation of In Situ Polymers in Hydroxyapatite/Poly-L-Lactide Biocomposites. Materials Science Forum, 2006, 518, 501-506.	0.3	3
80	INTERACTION OF BIOMATERIALS CONTAINING CALCIUM HYDROXYAPATITE/POLY-L-LACTIDE WITH THE SIMULATED BODY FLUID. Acta Medica Medianae, 2011, , 35-39.	0.0	3
81	Chitosan nanobeads loaded with Biginelli hybrids as cell-selective toxicity systems with a homogeneous distribution of the cell cycle in cancer treatment. RSC Advances, 2020, 10, 41542-41550.	1.7	3
82	Cytotoxicity of amorphous calcium phosphate multifunctional composite coatings on titanium obtained by in situ anodization/anaphoretic deposition. Journal of the Serbian Chemical Society, 2021, 86, 555-559.	0.4	3
83	Interdisciplinary crossover for rapid advancements - collaboration between medical and engineering scientists with the focus on Serbia. Srpski Arhiv Za Celokupno Lekarstvo, 2021, 149, 229-235.	0.1	3
84	Relationship between the properties of an interlayer formed by in situ Ti anodization and anaphoretically deposited hydroxyapatite. Journal of the Serbian Chemical Society, 2019, 84, 1305-1318.	0.4	3
85	The Effect of Processing Parameters on Characteristics of Poly-L-Lactide Microspheres. Materials Science Forum, 2007, 555, 453-458.	0.3	2
86	The role of synthetic biomaterials in resorptive alveolar bone regeneration. Hemijska Industrija, 2007, 61, 96-100.	0.3	2
87	From molecules to nanoparticles to functional materials. Journal of the Serbian Chemical Society, 2020, 85, 1383-1403.	0.4	2
88	The Influence of Nanomaterial Calcium Phosphate/poly-(dl-lactide-co-glycolide) on Proliferation and Adherence of HeLa Cells. , 2017, , 387-400.		1
89	Pathway to tailor the phase composition, microstructure and mechanical properties of pulsed laser deposited cobalt-substituted calcium phosphate coatings on titanium. Surface and Coatings Technology, 2022, 437, 128275.	2.2	1
90	Processing and Mechanical Properties of Biphasic Calcium-Phosphate/Poly-L-Lactide Composite Biomaterials. Materials Science Forum, 2004, 471-472, 273-277.	0.3	0

#	ARTICLE	IF	CITATIONS
91	The Influence of Gamma Radiation on the Glass Transition of Hydroxyapatite/Poly L-Lactide Composite. Materials Science Forum, 2007, 555, 497-502.	0.3	0
92	Scanning Electron Microscopy Analysis of Changes of Hydroxiapatite/Poly-L-Lactide with Different Molecular Weight of PLLAaAfter Intraperitoneal Implantation. Acta Veterinaria, 2016, 66, 234-244.	0.2	0
93	The structure and glass transition behavior of PLLA under the influence of gamma radiation. Hemijska Industrija, 2010, 64, 275-281.	0.3	0
94	Multifunctional and hybrid systems based on calcium-phosphate and hydroxyapatite for preventive and regenerative medicine. Tehnika, 2017, 72, 11-24.	0.0	0
95	Molecular designing of nanoparticles and functional materials. Journal of the Serbian Chemical Society, 2017, 82, 607-625.	0.4	0