

Mehrdad Khakbiz

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,051
citations

361413

20
h-index

434195

31
g-index

35
all docs

35
docs citations

35
times ranked

1279
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and structural characterization of Al ³⁺ /B ₄ C nano-composite powders by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2009, 479, 334-341.	5.5	187
2	Characterization of nanostructured biodegradable Zn-Mn alloy synthesized by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1319-1327.	5.5	70
3	Analysis of the rheological behavior and stability of 316L stainless steel ³⁺ /TiC powder injection molding feedstock. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 407, 105-113.	5.6	66
4	Synthesis and characterization of ZnAl-NO ₃ (-CO ₃) layered double hydroxide: A novel structure for intercalation and release of simvastatin. <i>Applied Surface Science</i> , 2019, 467-468, 782-791.	6.1	66
5	Novel antibacterial biodegradable Fe-Mn-Ag alloys produced by mechanical alloying. <i>Materials Science and Engineering C</i> , 2018, 88, 88-94.	7.3	64
6	Effects of Ti-based catalysts on hydrogen desorption kinetics of nanostructured magnesium hydride. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 21007-21014.	7.1	48
7	Synthesis, Characterization and In Vitro Biological Evaluation of Sol-gel Derived Sr-containing Nano Bioactive Glass. <i>Silicon</i> , 2017, 9, 535-542.	3.3	39
8	Inhibitor of PI3K/Akt Signaling Pathway Small Molecule Promotes Motor Neuron Differentiation of Human Endometrial Stem Cells Cultured on Electrospun Biocomposite Polycaprolactone/Collagen Scaffolds. <i>Molecular Neurobiology</i> , 2017, 54, 2547-2554.	4.0	39
9	Design and characterization of nano and bimodal structured biodegradable Fe-Mn-Ag alloy with accelerated corrosion rate. <i>Journal of Alloys and Compounds</i> , 2018, 767, 955-965.	5.5	39
10	Comparative analysis and properties evaluation of gelatin microspheres crosslinked with glutaraldehyde and 3-glycidoxypropyltrimethoxysilane as drug delivery systems for the antibiotic vancomycin. <i>International Journal of Pharmaceutics</i> , 2019, 557, 208-220.	5.2	36
11	Medical application of biomimetic 4D printing. <i>Drug Development and Industrial Pharmacy</i> , 2021, 47, 521-534.	2.0	34
12	Synthesis and characterization of Mg, Zn and Sr-incorporated hydroxyapatite whiskers by hydrothermal method. <i>Materials Letters</i> , 2019, 243, 120-124.	2.6	31
13	Synthesis and characterization of strontium fluor-hydroxyapatite nanoparticles for dental applications. <i>Microchemical Journal</i> , 2020, 153, 104485.	4.5	31
14	Synthesis and characterization of Zn/Al-LDH@SiO ₂ nanohybrid: Intercalation and release behavior of vitamin C. <i>Materials Science and Engineering C</i> , 2019, 103, 109816.	7.3	28
15	A biomaterials approach to Schwann cell development in neural tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 2425-2446.	4.0	27
16	Naringin-loaded Poly(ϵ -caprolactone)/Gelatin Electrospun Mat as a Potential Wound Dressing: In vitro and In vivo Evaluation. <i>Fibers and Polymers</i> , 2018, 19, 125-134.	2.1	24
17	Wear mechanisms maps of CNT reinforced Al6061 nanocomposites treated by cryomilling and mechanical milling. <i>Tribology International</i> , 2017, 110, 151-160.	5.9	23
18	Synthesis of a novel dexamethasone intercalated layered double hydroxide nanohybrids and their deposition on anodized titanium nanotubes for drug delivery purposes. <i>Journal of Solid State Chemistry</i> , 2019, 271, 144-153.	2.9	23

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19	In situ preparation of Cu-MnO nanocomposite powder through mechanochemical synthesis. Journal of Alloys and Compounds, 2009, 477, 683-687.	5.5	22
20	Investigation of rheological behaviour of 316L stainless steel-3 wt-%TiC powder injection moulding feedstock. Powder Metallurgy, 2005, 48, 144-150.	1.7	20
21	In Vitro Degradation, Hemocompatibility, and Cytocompatibility of Nanostructured Absorbable Fe-Mn-Ag Alloys for Biomedical Application. ACS Biomaterials Science and Engineering, 2020, 6, 2094-2106.	5.2	20
22	Purmorphamine as a Shh Signaling Activator Small Molecule Promotes Motor Neuron Differentiation of Mesenchymal Stem Cells Cultured on Nanofibrous PCL Scaffold. Molecular Neurobiology, 2017, 54, 5668-5675.	4.0	17
23	Effect of high energy ball milling on the properties of biodegradable nanostructured Fe-35 wt.%Mn alloy. Journal of Alloys and Compounds, 2018, 768, 166-175.	5.5	15
24	Carboxymethyl kappa carrageenan-modified decellularized small-diameter vascular grafts improving thromboresistance properties. Journal of Biomedical Materials Research - Part A, 2019, 107, 1690-1701.	4.0	14
25	Synthesizing of Nanostructured Fe-Mn Alloys by Mechanical Alloying Process. , 2015, 11, 381-385.		13
26	Preclinical studies of acellular extracellular matrices as small-caliber vascular grafts. Tissue and Cell, 2019, 60, 25-32.	2.2	11
27	A review of 3D printing technology for rapid medical diagnostic tools. Molecular Systems Design and Engineering, 2022, 7, 315-324.	3.4	10
28	Microstructural and tribological properties of nanostructured Al6061-CNT produced by mechanical milling and extrusion. Advanced Powder Technology, 2018, 29, 543-554.	4.1	8
29	Characterization and multiscale modeling of novel calcium phosphate composites containing hydroxyapatite whiskers and gelatin microspheres. Journal of Alloys and Compounds, 2020, 832, 154938.	5.5	8
30	Effect of nanoparticles on surface characteristics of dental nanocomposite. Medical Devices & Sensors, 2020, 3, e10081.	2.7	5
31	EFFECT OF MECHANICAL ALLOYING PROCESS PARAMETERS ON CHARACTERISTICS OF Al-B ₄ C NANOCOMPOSITE-NANOCRYSTALLINE POWDER PARTICLES. International Journal of Modern Physics B, 2008, 22, 2924-2932.	2.0	4
32	Characterization and fractal modeling of boron carbide nanoparticles synthesized by nanomilling. Physica B: Condensed Matter, 2019, 557, 132-140.	2.7	3
33	Evolution of the size distribution of Al-B ₄ C nano-composite powders during mechanical milling: a comparison of experimental results with artificial neural networks and multiple linear regression models. Neural Computing and Applications, 2019, 31, 1145-1154.	5.6	3
34	EFFECT OF REINFORCEMENT CONTENT AND CONSOLIDATION PROCEDURES ON PROPERTIES OF ALUMINUM-BORON CARBIDE NANO-COMPOSITES. International Journal of Modern Physics Conference Series, 2012, 05, 589-597.	0.7	2
35	Evaluation of Antibacterial and Mechanical Features of Dental Adhesives Containing Colloidal Gold Nanoparticles. Journal of Molecular Liquids, 2022, , 119824.	4.9	1