

Mohammad Jafar Hadianfard

List of Publications by Year in descending order

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41
papers

1,041
citations

361045

20
h-index

433756

31
g-index

41
all docs

41
docs citations

41
times ranked

1007
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Modification of Stainless Steel Orthopedic Implants by Solâ€“Gel ZrTiO ₄ and ZrTiO ₄ â€“PMMA Coatings. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 1327-1335.	0.5	76
2	Microwave-assisted synthesis of graphene modified CuO nanoparticles for voltammetric enzyme-free sensing of glucose at biological pH values. <i>Mikrochimica Acta</i> , 2018, 185, 57.	2.5	56
3	In Vitro Electrochemical Corrosion and Cell Viability Studies on Nickel-Free Stainless Steel Orthopedic Implants. <i>PLoS ONE</i> , 2013, 8, e61633.	1.1	52
4	Effects of strain rate on mechanical properties and failure mechanism of structural Alâ€“Mg alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 492, 283-292.	2.6	50
5	Microstructural, thermal and magnetic properties of amorphous/nanocrystalline FeCrMnN alloys prepared by mechanical alloying and subsequent heat treatment. <i>Journal of Alloys and Compounds</i> , 2009, 480, 617-624.	2.8	50
6	Low cycle fatigue behavior and failure mechanism of a dual-phase steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 499, 493-499.	2.6	45
7	A new double-layer solâ€“gel coating to improve the corrosion resistance of a medical-grade stainless steel in a simulated body fluid. <i>Materials Letters</i> , 2013, 97, 162-165.	1.3	44
8	Aqueous solâ€“gel synthesis of zirconium titanate (ZrTiO ₄) nanoparticles using chloride precursors. <i>Ceramics International</i> , 2012, 38, 6145-6149.	2.3	42
9	Fabrication and characterization of functionally graded hydroxyapatite/TiO ₂ multilayer coating on Tiâ€“6Alâ€“4V titanium alloy for biomedical applications. <i>Ceramics International</i> , 2015, 41, 12668-12679.	2.3	42
10	Zirconium titanate thin film prepared by an aqueous particulate solâ€“gel spin coating process using carboxymethyl cellulose as dispersant. <i>Materials Letters</i> , 2012, 88, 5-8.	1.3	40
11	Synthesis and characterization of NiAlxFe _{2-2x} O ₄ magnetic spinel ferrites produced by conventional method. <i>Powder Technology</i> , 2013, 235, 110-114.	2.1	38
12	Multilayer zirconium titanate thin films prepared by a solâ€“gel deposition method. <i>Ceramics International</i> , 2013, 39, 1271-1276.	2.3	37
13	The effect of sintering temperature on the structure and mechanical properties of medical-grade powder metallurgy stainless steels. <i>Powder Technology</i> , 2016, 289, 37-43.	2.1	37
14	A study on the tensile properties of silicone rubber/polypropylene fibers/silica hybrid nanocomposites. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 57, 289-296.	1.5	37
15	Microstructural and hardness evolution of mechanically alloyed Feâ€“Crâ€“Mnâ€“N powders. <i>Journal of Alloys and Compounds</i> , 2010, 497, 369-372.	2.8	32
16	The effect of nitrogen on the glass-forming ability and micro-hardness of Feâ€“Crâ€“Mnâ€“N amorphous alloys prepared by mechanical alloying. <i>Materials Chemistry and Physics</i> , 2009, 118, 71-75.	2.0	28
17	Characterization of Feâ€“Crâ€“Mnâ€“N amorphous powders with a wide supercooled liquid region developed by mechanical alloying. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 1135-1142.	2.6	26
18	Preparation and Properties of a Phenolic/Graphite Nanocomposite Bipolar Plate for Proton Exchange Membrane Fuel Cell. <i>ECS Journal of Solid State Science and Technology</i> , 2012, 1, M39-M46.	0.9	24

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19	A comprehensive study on the mechanical properties and failure mechanisms of graphyne nanotubes (GNTs) in different phases. <i>Computational Materials Science</i> , 2020, 182, 109794.	1.4	23
20	The influence of Al content and CaO/SiO ₂ on the magnetic and structural properties of Al-substituted Ni ferrites. <i>Journal of Alloys and Compounds</i> , 2009, 481, 539-542.	2.8	22
21	The effect of sintering time on the densification and mechanical properties of a mechanically alloyed Cr/Mn/N stainless steel. <i>Materials & Design</i> , 2010, 31, 527-532.	5.1	20
22	Crystal interstitial sites contribution to nitrogen supersaturation in mechanically alloyed Fe/Cr/Mn/N alloys. <i>Journal of Alloys and Compounds</i> , 2010, 505, 584-587.	2.8	20
23	Liquid-phase sintering of medical-grade P558 stainless steel using a new biocompatible eutectic additive. <i>Materials Letters</i> , 2012, 74, 209-212.	1.3	20
24	Effect of milling time on structure and mechanical properties of porous nickel-free austenitic stainless steels processed by mechanical alloying and sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 5522-5527.	2.6	17
25	On the general outline of physical properties of amorphous-nanocrystalline Fe/Cr/Mn/N alloy powders prepared by mechanical alloying under nitrogen. <i>Journal of Alloys and Compounds</i> , 2011, 509, 3252-3256.	2.8	16
26	Microstructural characterization of medical-grade stainless steel powders prepared by mechanical alloying and subsequent annealing. <i>Advanced Powder Technology</i> , 2013, 24, 605-608.	2.0	16
27	FRACTURE TOUGHNESS MEASUREMENTS AND FAILURE MECHANISMS OF METAL MATRIX COMPOSITES. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1994, 17, 253-263.	1.7	15
28	A system dynamics model to estimate energy, temperature, and particle size in planetary ball milling. <i>Journal of Alloys and Compounds</i> , 2013, 555, 108-111.	2.8	15
29	Influence of annealing temperature on the structural and anti-corrosion characteristics of sol-gel derived, spin-coated thin films. <i>Ceramics International</i> , 2014, 40, 2885-2890.	2.3	13
30	Failure in a high pressure feeding line of an oil refinery due to hydrogen effect. <i>Engineering Failure Analysis</i> , 2010, 17, 873-881.	1.8	12
31	The cross-linked polyvinyl alcohol/hydroxyapatite nanocomposite foam. <i>Journal of Materials Research and Technology</i> , 2019, 8, 3149-3157.	2.6	12
32	The role of hollow silica nanospheres and rigid silica nanoparticles on acoustic wave absorption of flexible polyurethane foam nanocomposites. <i>Journal of Cellular Plastics</i> , 2020, 56, 395-410.	1.2	10
33	Temperature effect on fracture behaviour of an alumina particulate-reinforced 6061-aluminium composite. <i>Applied Composite Materials</i> , 1994, 1, 93-113.	1.3	9
34	A novel approach to quantify nitrogen distribution in nanocrystalline-amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2011, 509, 2248-2251.	2.8	9
35	A study on the role of polypropylene fibers and silica nanoparticles on the compression properties of silicone rubber composites as a material of finger joint implant. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2017, 66, 48-52.	1.8	9
36	The Optimization of Ball Milling Method in Preparation of Phenolic/Functionalized Multi-Wall Carbon Nanotube Composite and Comparison with Wet Method. <i>International Journal of Engineering Research in Africa</i> , 0, 5, 16-29.	0.7	8

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37	Compositional homogeneity in a medical-grade stainless steel sintered with a Mn-Si additive. <i>Materials Science and Engineering C</i> , 2012, 32, 2215-2219.	3.8	7
38	On the Role of Both Polypropylene Fibers and Silica Nanoparticles on the Viscoelastic Behavior of Silicone Rubber Nanocomposites. <i>Polymer-Plastics Technology and Engineering</i> , 2016, 55, 1693-1699.	1.9	5
39	Effects of hold-time at a certain temperature on LCF behavior and failure mechanism of a titanium matrix composite. <i>Composites Science and Technology</i> , 2005, 65, 2208-2218.	3.8	4
40	Failure Analysis of Disbondment of Three-Layer Polyethylene Coatings from the Surface of Buried Steel Pipelines. <i>Journal of Failure Analysis and Prevention</i> , 2015, 15, 604-611.	0.5	2
41	Study the Effect of Nanoemissive Materials on M-Type Cathode Performance. <i>Advanced Materials Research</i> , 2013, 829, 772-777.	0.3	1