Mohammad Jafar Hadianfard

List of Publications by Year
in descending order

41 papers	1,041 citations	361413 20 h-index	434195 31 g-index

41 all docs	41 docs citations	41 times ranked	1007 citing authors

#	Article	IF	Citations
1	The role of hollow silica nanospheres and rigid silica nanoparticles on acoustic wave absorption of flexible polyurethane foam nanocomposites. Journal of Cellular Plastics, 2020, 56, 395-410.	2.4	10
2	A comprehensive study on the mechanical properties and failure mechanisms of graphyne nanotubes (GNTs) in different phases. Computational Materials Science, 2020, 182, 109794.	3.0	23
3	The cross-linked polyvinyl alcohol/hydroxyapatite nanocomposite foam. Journal of Materials Research and Technology, 2019, 8, 3149-3157.	5.8	12
4	Microwave-assisted synthesis of graphene modified CuO nanoparticles for voltammetric enzyme-free sensing of glucose at biological pH values. Mikrochimica Acta, 2018, 185, 57.	5.0	56
5	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. International Journal of Polymeric Materials and Polymeric Biomaterials, 2017, 66, 48-52.	3.4	9
6	On the Role of Both Polypropylene Fibers and Silica Nanoparticles on the Viscoelastic Behavior of Silicone Rubber Nanocomposites. Polymer-Plastics Technology and Engineering, 2016, 55, 1693-1699.	1.9	5
7	The effect of sintering temperature on the structure and mechanical properties of medical-grade powder metallurgy stainless steels. Powder Technology, 2016, 289, 37-43.	4.2	37
8	A study on the tensile properties of silicone rubber/polypropylene fibers/silica hybrid nanocomposites. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 57, 289-296.	3.1	37
9	Failure Analysis of Disbondment of Three-Layer Polyethylene Coatings from the Surface of Buried Steel Pipelines. Journal of Failure Analysis and Prevention, 2015, 15, 604-611.	0.9	2
10	Fabrication and characterization of functionally graded hydroxyapatite/TiO2 multilayer coating on Tiâ€“6Alâ€“4V titanium alloy for biomedical applications. Ceramics International, 2015, 41, 12668-12679.	4.8	42
11	Influence of annealing temperature on the structural and anti-corrosion characteristics of solâ€“gel derived, spin-coated thin films. Ceramics International, 2014, 40, 2885-2890.	4.8	13
12	Synthesis and characterization of NiAlxFe2â˜xO4 magnetic spinel ferrites produced by conventional method. Powder Technology, 2013, 235, 110-114.	4.2	38
13	Multilayer zirconium titanate thin films prepared by a solâ€“gel deposition method. Ceramics International, 2013, 39, 1271-1276.	4.8	37
14	A system dynamics model to estimate energy, temperature, and particle size in planetary ball milling. Journal of Alloys and Compounds, 2013, 555, 108-111.	5.5	15
15	Microstructural characterization of medical-grade stainless steel powders prepared by mechanical alloying and subsequent annealing. Advanced Powder Technology, 2013, 24, 605-608.	4.1	16
16	A new double-layer solâ€“gel coating to improve the corrosion resistance of a medical-grade stainless steel in a simulated body fluid. Materials Letters, 2013, 97, 162-165.	2.6	44
17	In Vitro Electrochemical Corrosion and Cell Viability Studies on Nickel-Free Stainless Steel Orthopedic Implants. PLoS ONE, 2013, 8, e61633.	2.5	52
18	Surface Modification of Stainless Steel Orthopedic Implants by Solâ€“Gel ZrTiO₄ and ZrTiO₄â€“PMMA Coatings. Journal of Biomedical Nanotechnology, 2013, 9, 1327-1335.	1.1	76

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19	Study the Effect of Nanoemissive Materials on M-Type Cathode Performance. Advanced Materials Research, 2013, 829, 772-777.	0.3	1
20	Preparation and Properties of a Phenolic/Graphite Nanocomposite Bipolar Plate for Proton Exchange Membrane Fuel Cell. ECS Journal of Solid State Science and Technology, 2012, 1, M39-M46.	1.8	24
21	Zirconium titanate thin film prepared by an aqueous particulate solâ€“gel spin coating process using carboxymethyl cellulose as dispersant. Materials Letters, 2012, 88, 5-8.	2.6	40
22	Compositional homogeneity in a medical-grade stainless steel sintered with a Mnâ€“Si additive. Materials Science and Engineering C, 2012, 32, 2215-2219.	7.3	7
23	Aqueous solâ€“gel synthesis of zirconium titanate (ZrTiO4) nanoparticles using chloride precursors. Ceramics International, 2012, 38, 6145-6149.	4.8	42
24	Liquid-phase sintering of medical-grade P558 stainless steel using a new biocompatible eutectic additive. Materials Letters, 2012, 74, 209-212.	2.6	20
25	A novel approach to quantify nitrogen distribution in nanocrystalline-amorphous alloys. Journal of Alloys and Compounds, 2011, 509, 2248-2251.	5.5	9
26	On the general outline of physical properties of amorphous-nanocrystalline Feâ€“Crâ€“Mnâ€“N alloy powders prepared by mechanical alloying under nitrogen. Journal of Alloys and Compounds, 2011, 509, 3252-3256.	5.5	16
27	Characterization of Feâ€“Crâ€“Mnâ€“N amorphous powders with a wide supercooled liquid region developed by mechanical alloying. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 1135-1142.	5.6	26
28	The effect of sintering time on the densification and mechanical properties of a mechanically alloyed Crâ€“Mnâ€“N stainless steel. Materials & Design, 2010, 31, 527-532.	5.1	20
29	Effect of milling time on structure and mechanical properties of porous nickel-free austenitic stainless steels processed by mechanical alloying and sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5522-5527.	5.6	17
30	Failure in a high pressure feeding line of an oil refinery due to hydrogen effect. Engineering Failure Analysis, 2010, 17, 873-881.	4.0	12
31	Microstructural and hardness evolution of mechanically alloyed Feâ€“Crâ€“Mnâ€“N powders. Journal of Alloys and Compounds, 2010, 497, 369-372.	5.5	32
32	Crystal interstitial sites contribution to nitrogen supersaturation in mechanically alloyed Feâ€“Crâ€“Mnâ€“N alloys. Journal of Alloys and Compounds, 2010, 505, 584-587.	5.5	20
33	The effect of nitrogen on the glass-forming ability and micro-hardness of Feâ€“Crâ€“Mnâ€“N amorphous alloys prepared by mechanical alloying. Materials Chemistry and Physics, 2009, 118, 71-75.	4.0	28
34	Low cycle fatigue behavior and failure mechanism of a dual-phase steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 499, 493-499.	5.6	45
35	Microstructural, thermal and magnetic properties of amorphous/nanocrystalline FeCrMnN alloys prepared by mechanical alloying and subsequent heat treatment. Journal of Alloys and Compounds, 2009, 480, 617-624.	5.5	50
36	The influence of Al content and CaOâ€“SiO2 on the magnetic and structural properties of Al-substituted Ni ferrites. Journal of Alloys and Compounds, 2009, 481, 539-542.	5.5	22

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37	Effects of strain rate on mechanical properties and failure mechanism of structural Alâ€“Mg alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 492, 283-292.	5.6	50
38	Effects of hold-time at a certain temperature on LCF behavior and failure mechanism of a titanium matrix composite. Composites Science and Technology, 2005, 65, 2208-2218.	7.8	4
39	Temperature effect on fracture behaviour of an alumina particulate-reinforced 6061-aluminium composite. Applied Composite Materials, 1994, 1, 93-113.	2.5	9
40	FRACTURE TOUGHNESS MEASUREMENTS AND FAILURE MECHANISMS OF METAL MATRIX COMPOSITES. Fatigue and Fracture of Engineering Materials and Structures, 1994, 17, 253-263.	3.4	15
41	The Optimization of Ball Milling Method in Preparation of Phenolic/Functionalized Multi-Wall Carbon Nanotube Composite and Comparison with Wet Method. International Journal of Engineering Research in Africa, 0, 5, 16-29.	0.7	8