

Ali-Reza Kiani-Rashid

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49 papers	548 citations	14 h-index	20 g-index
51 ext. papers	680 ext. citations	3.7 avg, IF	4.22 L-index

#	Paper	IF	Citations
49	Surface nanocrystallization and gradient microstructural evolutions in the surface layers of 321 stainless steel alloy treated via severe shot peening. <i>Vacuum</i> , 2017 , 144, 152-159	3.7	47
48	Modeling of hot deformation behavior and prediction of flow stress in a magnesium alloy using constitutive equation and artificial neural network (ANN) model. <i>Journal of Magnesium and Alloys</i> , 2018 , 6, 134-144	8.8	38
47	Correlation between the surface coverage of severe shot peening and surface microstructural evolutions in AISI 321: A TEM, FE-SEM and GI-XRD study. <i>Surface and Coatings Technology</i> , 2018 , 334, 461-470	4.4	27
46	Morphology modification of electrodeposited superhydrophobic nickel coating for enhanced corrosion performance studied by AFM, SEM-EDS and electrochemical measurements. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 547, 81-94	5.1	27
45	Diabetes mellitus in Kuwait. Incidence in the first 29 years of life. <i>Diabetologia</i> , 1983 , 25, 306-8	10.3	27
44	The Microstructure and Mechanical Properties of Hot Forged Vanadium Microalloyed Steel. <i>Materials and Manufacturing Processes</i> , 2012 , 27, 135-139	4.1	21
43	Hydroxyapatite coating containing multi-walled carbon nanotubes on AZ31 magnesium: Mechanical-electrochemical degradation in a physiological environment. <i>Ceramics International</i> , 2018 , 44, 8297-8305	5.1	20
42	Formation of nanocrystalline h-AlN during mechanochemical decomposition of melamine in the presence of metallic aluminum. <i>Journal of Solid State Chemistry</i> , 2012 , 190, 8-11	3.3	20
41	Effect of powder reactivity on fabrication and properties of NiAl/Al ₂ O ₃ composite coated on cast iron using spark plasma sintering. <i>Applied Surface Science</i> , 2015 , 344, 1-8	6.7	18
40	Microstructural and mechanical properties (hardness) investigations of Al-alloyed ductile cast iron. <i>Journal of Alloys and Compounds</i> , 2010 , 500, 129-133	5.7	17
39	Influence of austenitising conditions and aluminium content on microstructure and properties of ductile irons. <i>Journal of Alloys and Compounds</i> , 2009 , 470, 323-327	5.7	16
38	Oxidation behaviour of Al-alloyed ductile cast irons at elevated temperature. <i>Surface and Interface Analysis</i> , 2004 , 36, 1011-1013	1.5	16
37	Improved corrosion inhibition of 3-amino-1,2,4-triazole on mild steel electrode in HCl solution using surface nanocrystallization. <i>International Journal of Materials Research</i> , 2016 , 107, 1031-1040	0.5	15
36	The Effect of Isothermal Heat Treatment Time on the Microstructure and Properties of 2.11% Al Austempered Ductile Iron. <i>Journal of Materials Engineering and Performance</i> , 2012 , 21, 1785-1792	1.6	14
35	Synthesis of nanostructured AlN by solid state reaction of Al and diaminomaleonitrile. <i>Journal of Solid State Chemistry</i> , 2013 , 198, 542-547	3.3	14
34	In-situ synthesis of nanostructured NiAl-Al ₂ O ₃ composite coatings on cast iron substrates by spark plasma sintering of mechanically activated powders. <i>Surface and Coatings Technology</i> , 2015 , 272, 254-267	4.4	13
33	Enhanced protective properties of epoxy/polyaniline-camphorsulfonate nanocomposite coating on an ultrafine-grained metallic surface. <i>Applied Surface Science</i> , 2016 , 376, 121-132	6.7	13

32	Microstructural and mechanical characteristics of Al-alloyed ductile iron upon casting and annealing. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012 , 19, 812-820	3.1	13
31	Investigation on the effects of hot forging parameters on the austenite grain size of vanadium microalloyed forging steel (30MSV6). <i>Journal of Alloys and Compounds</i> , 2010 , 490, 572-575	5.7	13
30	Influences of mechanical activation and heating rate on reaction processes in combustion synthesis of NiAl-Al ₂ O ₃ composites. <i>Powder Technology</i> , 2019 , 346, 237-247	5.2	12
29	Microstructural characteristics of Al-alloyed austempered ductile irons. <i>Journal of Alloys and Compounds</i> , 2009 , 477, 391-398	5.7	12
28	High temperature oxidation behaviour of AISI 321 stainless steel with an ultrafine-grained surface at 800 °C in Ar/20 vol.% O ₂ . <i>Corrosion Science</i> , 2020 , 163, 108282	6.8	12
27	Phase transformation study of aluminium-containing ductile cast irons by dilatometry. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 481-482, 752-756	5.3	11
26	New insights into the effects of surface nanocrystallization on the oxidation of 321 austenitic stainless steel in a humid oxygen environment at 1000 °C. <i>Corrosion Science</i> , 2019 , 147, 231-245	6.8	11
25	Thermal stability of nanocrystalline surface layer of AISI 321 stainless steel. <i>Vacuum</i> , 2017 , 146, 297-303	3.7	10
24	The Influence of Cooling Rate on the Microstructure and Microsegregation in Al ₃₀ Sn Binary Alloy. <i>Metallography, Microstructure, and Analysis</i> , 2013 , 2, 107-112	1.1	10
23	A study on graphitisation acceleration during annealing of martensitic hypereutectoid steel. <i>Phase Transitions</i> , 2011 , 84, 981-991	1.3	10
22	The bainite transformation and the carbide precipitation of 4.88% aluminium austempered ductile iron investigated using electron microscopy. <i>Journal of Alloys and Compounds</i> , 2009 , 474, 490-498	5.7	10
21	Effects of sphere size on the microstructure and mechanical properties of ductile iron/steel hollow sphere syntactic foams. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2016 , 23, 676-682	3.1	8
20	Design of a low density refractory high entropy alloy in non-equiatomic W-Mo-Cr-Ti-Al system. <i>Vacuum</i> , 2020 , 181, 109614	3.7	8
19	Severe shot peening of AISI 321 with 1 000 % and 1 300 % coverages: A comparative study on the surface nanocrystallization, phase transformation, sub-surface microcracks, and microhardness. <i>International Journal of Materials Research</i> , 2018 , 109, 451-459	0.5	6
18	The effect of aluminium content on morphology, size, volume fraction, and number of graphite nodules in ductile cast iron. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2010 , 224, 117-122	1.3	5
17	The New Methods of Graphite Nodules Detection in Ductile Cast Iron. <i>Materials and Manufacturing Processes</i> , 2011 , 26, 242-248	4.1	5
16	The influence of annealing temperature on the graphitisation of CK 45 Steel. <i>Journal of Alloys and Compounds</i> , 2009 , 475, 822-826	5.7	5
15	Investigation of microstructural and mechanical properties of austempered steel bar-reinforced ductile cast iron composite. <i>Materials & Design</i> , 2014 , 53, 1047-1051		4

14	Impact toughness and microstructure of continuous medium carbon steel bar-reinforced cast iron composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 135-138	5.3	4
13	Effect of aluminum on stability of retained austenite in bainitic malleable cast iron. <i>Metal Science and Heat Treatment</i> , 2011 , 53, 322-325	0.6	3
12	Carbide Fragmentation and Dissolution in a High-Carbon High-Chromium Steel Using Hot Rolling Process: Microstructure Evolution, Wear, High-Temperature Oxidation, and Chloride-Induced Corrosion Properties. <i>Corrosion</i> , 2018 , 74, 958-970	1.8	2
11	Microstructure evolution in hypereutectoid graphitic steel. <i>International Journal of Materials Research</i> , 2011 , 102, 1242-1246	0.5	2
10	The cardiovascular epidemic with particular emphasis on the Muslim world. <i>Bangladesh Journal of Medical Science</i> , 2011 , 10, 65-71	0.4	2
9	Synergistic effect of hybrid size ZrO ₂ and electroless nickel decoration on the mechanical and high temperature oxidation properties of NiCr/ZrO ₂ composites. <i>Journal of Alloys and Compounds</i> , 2020 , 848, 156596	5.7	2
8	Effects of copper content on the shell characteristics of hollow steel spheres manufactured using an advanced powder metallurgy technique. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2016 , 23, 434-441	3.1	2
7	The influence of different heat treatment cycles on controlled surface graphitization in CK45 steel. <i>Journal of Alloys and Compounds</i> , 2010 , 492, 739-744	5.7	1
6	Microstructural study in graphitised hypereutectoid cast and commercial steels. <i>Materials Science and Technology</i> , 2011 , 27, 631-636	1.5	1
5	Mechanochemical reaction of Al and melamine: a potential approach towards the in situ synthesis of aluminum nitride-carbon nanotube nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 22121-22131	3.6	1
4	Equal channel angular pressing of spheroidal graphite cast iron. <i>Materials Research Express</i> , 2019 , 6, 066542	5.4	2
3	Mechanical Properties of a High Si and Mn Steel Heat Treated by Two-Step Quenching and Partitioning. <i>Materials Science</i> , 2018 , 53, 481-487	0.7	
2	Non-equiatomic W ₁₀ Mo ₂₇ Cr ₂₁ Ti ₂₂ Al ₂₀ high-entropy alloy produced by mechanical alloying and spark plasma sintering: Phase evolution and mechanical properties. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 146442072110510	1.3	
1	On the material characteristics of a high carbon cast austenitic stainless steel after solution annealing followed by quenching in a CNT nanofluid. <i>International Journal of Materials Research</i> , 2019 , 110, 570-576	0.5	