

Ahmad Kermanpur

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

169
papers

4,031
citations

33
h-index

55
g-index

169
ext. papers

4,663
ext. citations

4
avg, IF

5.82
L-index

#	Paper	IF	Citations
169	Effect of nitrogen addition and aging treatment on microstructure and high temperature mechanical properties of Ti-48Al-2Cr-2Nb (at%) intermetallic alloy. <i>Journal of Alloys and Compounds</i> , 2022 , 904, 164077	5.7	1
168	Graphene oxide decorated with gold enables efficient biophotovoltaic cells incorporating photosystem I.. <i>RSC Advances</i> , 2022 , 12, 8783-8791	3.7	1
167	Effect of hafnium addition on microstructure and room temperature mechanical properties of the Ti-48Al-2Cr-2Nb intermetallic alloy. <i>Journal of Alloys and Compounds</i> , 2022 , 917, 165467	5.7	0
166	Effect of Hf addition on solidification and hot isostatically pressed microstructures of the Ti-48Al-2Cr-2Nb (at%) intermetallic alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 860, 158437	5.7	3
165	Design of a hot deformation processing map for a Ni-free, N-bearing austenitic stainless steel. <i>Materials Today Communications</i> , 2021 , 27, 102352	2.5	0
164	The novel immobilization of G-quadruplex aptamer on Cu deposited surface using electrochemical method. <i>Materials Letters</i> , 2021 , 282, 128703	3.3	3
163	Investigation of microstructure-tensile behavior relationship in Hastelloy X Ni-based superalloy processed by laser powder-bed fusion: Insights into the elevated temperature ductility loss. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 823, 141721	5.3	3
162	Contribution of hot isostatic pressing on densification, microstructure evolution, and mechanical anisotropy of additively manufactured IN718 Ni-based superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 823, 141721	5.3	1
161	Fullerenes Enhance Self-Assembly and Electron Injection of Photosystem I in Biophotovoltaic Devices. <i>Langmuir</i> , 2021 , 37, 11465-11473	4	3
160	A semi-analytical approach on critical thermal states in water wall tubes of a subcritical drum boiler of a thermal power plant. <i>International Journal of Pressure Vessels and Piping</i> , 2021 , 194, 104507	2.4	
159	Effect of Ta/W Ratio on Microstructural Features and Segregation Patterns of the Single Crystal PWA1483 Ni-Based Superalloy. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 7567-7586	1.6	5
158	Structural and Electrical Investigation of Cobalt-Doped NiO/Perovskite Interface for Efficient Inverted Solar Cells. <i>Nanomaterials</i> , 2020 , 10,	5.4	2
157	Effect of Intercritical Annealing on Microstructure and Tensile Properties of an Ultrafine-Grained Dual-Phase Low Alloy Steel Containing Titanium. <i>Steel Research International</i> , 2020 , 91, 2000118	1.6	4
156	Insight to the Influence of Ti Addition on the Strain-Induced Martensitic Transformation in a High (about 7 wt.%) Mn Stainless Steel. <i>Metals</i> , 2020 , 10, 568	2.3	
155	A multifunctional nanocomposite spray dressing of Kappa-carrageenan-polydopamine modified ZnO/L-glutamic acid for diabetic wounds. <i>Materials Science and Engineering C</i> , 2020 , 111, 110837	8.3	24
154	Microstructural and mechanical anisotropy of selective laser melted IN718 superalloy at room and high temperatures using small punch test. <i>Materials Characterization</i> , 2020 , 162, 110200	3.9	21
153	Performance enhancement of mesoscopic perovskite solar cells with GQDs-doped TiO ₂ electron transport layer. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 208, 110407	6.4	20

152	The role of GQDs additive in TiO ₂ nanorods as an electron transfer layer on performance improvement of the perovskite solar cells. <i>Electrochimica Acta</i> , 2020 , 337, 135822	6.7	12
151	Failure investigation of water wall tubes in a drum boiler of a thermal power plant. <i>Engineering Failure Analysis</i> , 2020 , 118, 104869	3.2	5
150	Enhanced performance of planar perovskite solar cells using TiO ₂ /SnO ₂ and TiO ₂ /WO ₃ bilayer structures: Roles of the interfacial layers. <i>Solar Energy</i> , 2020 , 208, 697-707	6.8	25
149	Poly(Caprolactone)-Poly(N-Isopropyl Acrylamide)-Fe ₃ O ₄ Magnetic Nanofibrous Structure with Stimuli Responsive Drug Release. <i>Macromolecular Materials and Engineering</i> , 2020 , 305, 2000208	3.9	2
148	Effect of N addition on microstructure and high temperature mechanical properties of Ti-48Al-2Cr-2Nb (at. %) intermetallic alloy. <i>Materials Today Communications</i> , 2020 , 25, 101494	2.5	1
147	Cobalt doped magnetite nanoparticles: Synthesis, characterization, optimization and suitability evaluations for magnetic hyperthermia applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 116, 113759	3	22
146	Effect of N addition on microstructure refinement and high temperature mechanical properties of Ti-46Al-8Ta (at. %) intermetallic alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 817, 152749	5.7	9
145	Electrochemical molecularly bioimprinted siloxane biosensor on the basis of core/shell silver nanoparticles/EGFR exon 21 L858R point mutant gene/siloxane film for ultra-sensing of Gemcitabine as a lung cancer chemotherapy medication. <i>Biosensors and Bioelectronics</i> , 2019 , 145, 111611	11.8	12
144	On the Microstructure and Solidification Behavior of N-Bearing Ti-46Al-8Ta (at.%) Intermetallic Alloys. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 6438-6448	1.6	3
143	Developing high-strength, ductile Ni-free FeCrMnNi stainless steels by interstitial-alloying and thermomechanical processing. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 2846-2853	5.5	5
142	Effect of Mn addition on the structural and magnetic properties of Zn-ferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 481, 16-24	2.8	8
141	On the Reversion and Recrystallization of Austenite in the Interstitially Alloyed Ni-Free Nano/Ultrafine Grained Austenitic Stainless Steels. <i>Metals and Materials International</i> , 2019 , 25, 846-859 ^{2.4}	2.4	9
140	Sprayable and injectable visible-light Kappa-carrageenan hydrogel for in-situ soft tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2019 , 138, 590-601	7.9	29
139	Effect of thermomechanical treatment on the microstructures and mechanical properties of an ultrafine grained steel using bainite starting microstructure. <i>International Journal of Materials Research</i> , 2019 , 110, 517-523	0.5	
138	Low-Temperature Nb-Doped SnO ₂ Electron-Selective Contact Yields over 20% Efficiency in Planar Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 773-778	20.1	119
137	Superelastic properties of nanocrystalline NiTi shape memory alloy produced by thermomechanical processing. <i>Transactions of Nonferrous Metals Society of China</i> , 2018 , 28, 515-523	3.3	16
136	Diagnosis of EGFR exon21 L858R point mutation as lung cancer biomarker by electrochemical DNA biosensor based on reduced graphene oxide /functionalized ordered mesoporous carbon/Ni-oxytetracycline metallopolymer nanoparticles modified pencil graphite electrode. <i>Biosensors and Bioelectronics</i> , 2018 , 113, 108-115	11.8	41
135	Development of an electrochemical biosensor for vitamin B12 using D-phenylalanine nanotubes 2018 ,		2

134	Effects of withdrawal rate and starter block size on crystal orientation of a single crystal Ni-based superalloy. <i>Journal of Crystal Growth</i> , 2018 , 485, 19-27	1.6	12
133	PEG coated Zn _{0.3} Fe _{2.7} O ₄ nanoparticles in the presence of Fe ₂ O ₃ phase synthesized by citric acid assisted hydrothermal reduction process for magnetic hyperthermia applications. <i>Materials Chemistry and Physics</i> , 2018 , 212, 432-439	4.4	14
132	Peptide modified paper based impedimetric immunoassay with nanocomposite electrodes as a point-of-care testing of Alpha-fetoprotein in human serum. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 748-757	11.8	24
131	Superelastic behavior of nanostructured Ti 50 Ni 48 Co 2 shape memory alloy with cold rolling processing. <i>Transactions of Nonferrous Metals Society of China</i> , 2018 , 28, 1351-1359	3.3	9
130	On the Hot Deformation Behavior of a Ni-Free Austenitic Stainless Steel Interstitially Alloyed with Low Nitrogen Content. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 6765-6779	1.6	1
129	Optimizing Grain Selection Design in the Single-Crystal Solidification of Ni-Based Superalloys. <i>Crystal Research and Technology</i> , 2018 , 53, 1800108	1.3	1
128	Investigation and regulation of self-assembled well-ordered nano/microstructures via an aromatic amino acid. <i>Soft Matter</i> , 2018 , 14, 4996-5007	3.6	4
127	Effects of hydrothermal process parameters on the physical, magnetic and thermal properties of Zn _{0.3} Fe _{2.7} O ₄ nanoparticles for magnetic hyperthermia applications. <i>Ceramics International</i> , 2017 , 43, 5794-5804	5.1	38
126	On the precipitation hardening of the directionally solidified GTD-111 Ni-base superalloy: Microstructures and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 685, 79-86	5.3	16
125	Effect of withdrawal rate transition on microstructural features of a single crystal Ni-based superalloy. <i>Crystal Research and Technology</i> , 2017 , 52, 1700012	1.3	3
124	Effect of TiO ₂ morphology on structure of TiO ₂ -graphene oxide nanocomposite synthesized via a one-step hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2017 , 722, 272-277	5.7	28
123	Evaluation of Lipton-Glicksman-Kurz Model for Free Dendritic Growth Under an Applied Electric Field. <i>Jom</i> , 2017 , 69, 261-265	2.1	
122	The effect of Nb on texture evolutions of the ultrafine-grained dual-phase steels fabricated by cold rolling and intercritical annealing. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 1026-1035	5.7	22
121	Highly efficient and stable planar perovskite solar cells by solution-processed tin oxide. <i>Energy and Environmental Science</i> , 2016 , 9, 3128-3134	35.4	603
120	Microstructural and weldability analysis of Inconel617/AISI 310 stainless steel dissimilar welds. <i>International Journal of Pressure Vessels and Piping</i> , 2016 , 144, 18-24	2.4	39
119	Determination of processing maps for the warm working of vanadium microalloyed eutectoid steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 658, 167-175	5.3	16
118	Kinetics of Ferrite Recrystallization and Austenite Formation During Intercritical Annealing of the Cold-Rolled Ferrite/Martensite Duplex Structures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 1040-1051	2.3	17
117	Development of a high strength and ductile Nb-bearing dual phase steel by cold-rolling and intercritical annealing of the ferrite-martensite microstructures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 658, 355-366	5.3	39

116	EFFECTS OF APPLIED ELECTRIC CURRENT ON THE TIP RADIUS AND THE UNIVERSAL AMPLITUDE COEFFICIENT OF A SINGLE GROWING DENDRITE. <i>Surface Review and Letters</i> , 2016 , 23, 1550083	1.1	2
115	Influence of prior cold rolling reduction on microstructure and mechanical properties of a reversion annealed high-Mn austenitic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 650, 119-128	5.3	19
114	Deformation-induced martensitic transformation in a 201 austenitic steel: The synergy of stacking fault energy and chemical driving force. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 653, 147-152	5.3	36
113	Characterization of pure Ni ultrafine/nanoparticles synthesized by electromagnetic levitational gas condensation method. <i>Materials Research Bulletin</i> , 2016 , 74, 212-217	5.1	7
112	A Comparison on the EBSD and RO-XRD Techniques for Measuring Crystal Orientation of the Single-Crystal Ni-Based Superalloys. <i>Metallography, Microstructure, and Analysis</i> , 2016 , 5, 342-349	1.1	11
111	Effect of Post Weld Heat Treatment on Mechanical and Corrosion Behaviors of NiTi and Stainless Steel Laser-Welded Wires. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 2395-2402	1.6	7
110	Effect of N on Phase Transformations During Martensite Thermomechanical Processing of the Nano/Ultrafine-Grained 201L Steel. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 5502-5512	1.6	3
109	Correlation of microstructure and strain hardening behavior in the ultrafine-grained Nb-bearing dual phase steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 678, 215-226	5.3	32
108	A microstructural investigation on deformation mechanisms of Fe ₁₈ Cr ₁₂ Mn _{0.05} C metastable austenitic steels containing different amounts of nitrogen. <i>Materials and Design</i> , 2015 , 82, 273-280	8.1	12
107	Microstructure, Cyclic Deformation and Corrosion Behavior of Laser Welded NiTi Shape Memory Wires. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 3356-3364	1.6	12
106	Effect of Nb on Microstructures and Mechanical Properties of an Ultrafine-Grained Dual Phase Steel. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 3008-3017	1.6	9
105	Effect of initial microstructure on the work hardening behavior of plain eutectoid steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 632, 103-109	5.3	42
104	An investigation on microstructure and mechanical properties of a Nb-microalloyed nano/ultrafine grained 201 austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 636, 593-599	5.3	13
103	Influence of Nb-Microalloying on the Formation of Nano/Ultrafine-Grained Microstructure and Mechanical Properties During Martensite Reversion Process in a 201-Type Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 3406-3413	2.3	13
102	Nanoindentation study of ferrite/martensite dual phase steels developed by a new thermomechanical processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 639, 8-14	5.3	33
101	Microstructures, Mechanical Properties, and Strain Hardening Behavior of an Ultrahigh Strength Dual Phase Steel Developed by Intercritical Annealing of Cold-Rolled Ferrite/Martensite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 3052-3062	2.3	18
100	Investigating the effects of short time austenitizing and cooling rate on pearlitic microstructure and mechanical properties of a hot rolled plain eutectoid carbon steel. <i>Materials & Design</i> , 2015 , 67, 217-223		13
99	Warm deformation processing maps for the plain eutectoid steels. <i>Journal of Alloys and Compounds</i> , 2015 , 626, 136-144	5.7	31

98	Preferred Crystallographic Orientation Development in Nano/Ultrafine-Grained 316L Stainless Steel During Martensite to Austenite Reversion. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 644-653	1.6	8
97	Microstructures and Mechanical Properties of Nano/Ultrafine-Grained N-Bearing, Low-Ni Austenitic Stainless Steels. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 1018-1025	1.6	1
96	Nanocrystallization of the Ti50Ni48Co2 Shape Memory Alloy by Thermomechanical Treatment. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 445-451	1.6	9
95	Effects of Thermo-mechanical Processing on the Mechanical Properties and Shape Recovery of the Nanostructured Ti50Ni45Cu5 Shape Memory Alloy 2015 , 11, 61-66		3
94	Strengthening Mechanisms of Ultrafine Grained Dual Phase Steels Developed by New Thermomechanical Processing. <i>ISIJ International</i> , 2015 , 55, 218-226	1.7	29
93	Development of a New Ultrafine/Nano Ferrite-Carbide Microstructure by Thermomechanical Processing. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015 , 28, 249-253	2.5	7
92	Design, fabrication and testing of an apparatus for in-situ investigation of free dendritic growth under an applied electric field. <i>Journal of Crystal Growth</i> , 2015 , 416, 169-174	1.6	3
91	Correlation of Mechanical Properties with Fracture Surface Features in a Newly Developed Dual-Phase Steel. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 1573-1580	1.6	9
90	The effect of cold rolling and annealing on microstructure and tensile properties of the nanostructured Ni50Ti50 shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 607, 33-37	5.3	24
89	The effect of thermomechanical processing on the microstructure and mechanical properties of the nanocrystalline TiNiCo shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 598, 183-189	5.3	17
88	Effect of annealing temperature on nano/ultrafine grain of Ni-free austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 592, 77-82	5.3	30
87	Constitutive model for describing flow behaviour of Fe18Cr10Mn0.39N austenitic stainless steel. <i>Materials Science and Technology</i> , 2014 , 30, 257-260	1.5	2
86	A novel route for development of ultrahigh strength dual phase steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 619, 1-11	5.3	59
85	Microstructural investigation on deformation behavior of high purity FeCrNi austenitic alloys during tensile testing at different temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 618, 16-21	5.3	14
84	Influence of precooling and deformation temperature on microstructure and mechanical properties in a high-manganese austenitic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 614, 232-237	5.3	2
83	Effect of Nitrogen Content on Grain Refinement and Mechanical Properties of a Reversion-Treated Ni-Free 18Cr-12Mn Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 6317-6328	2.3	19
82	Investigation of the effect of grain size on the strain-induced martensitic transformation in a high-Mn stainless steel using nanoindentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 612, 214-216	5.3	17
81	Design of a new Ni-free austenitic stainless steel with unique ultrahigh strength-high ductility synergy. <i>Materials & Design</i> , 2014 , 63, 500-507		24

80	Formation of the Nanocrystalline Structure in an Equiatomic NiTi Shape-Memory Alloy by Thermomechanical Processing. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 1408-1414	1.6	9
79	The effects of multi-cyclic thermo-mechanical treatment on the grain refinement and tensile properties of a metastable austenitic steel. <i>Journal of Alloys and Compounds</i> , 2014 , 583, 357-360	5.7	17
78	Effects of initial microstructure and thermomechanical processing parameters on microstructures and mechanical properties of ultrafine grained dual phase steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 612, 54-62	5.3	31
77	Enhanced mechanical properties in a high-manganese austenitic steel through formation of nano grains, nanotwinned austenite grains, nano carbides and TRIP. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 610, 273-278	5.3	18
76	Formation of Nano/ultrafine Grain Structure in a Ti-modified 201L Stainless Steel through Martensite Thermomechanical Treatment. <i>ISIJ International</i> , 2014 , 54, 920-925	1.7	1
75	Fabrication of the ultrafine-grained ferrite with good resistance to grain growth and evaluation of its tensile properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 593, 24-30	5.3	13
74	Influence of Ti microalloying on the formation of nanocrystalline structure in the 201L austenitic stainless steel during martensite thermomechanical treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 584, 177-183	5.3	18
73	Synthesis of Graphene/CuO Magnetic Nanocomposite via Solvothermal Processing 2013 , 151-156		
72	Influence of nitrogen alloying on properties of Fe ₃₁₈ Cr ₃₁₂ Mn ₃ XN austenitic stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 588, 43-48	5.3	36
71	Application of Martensitic Transformation Fundamentals to Select Appropriate Alloys for Grain Refining Through Martensite Thermomechanical Treatment. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 3524-3531	2.3	11
70	Investigation of cold rolling variables on the formation of strain-induced martensite in 201L stainless steel. <i>Materials & Design</i> , 2013 , 46, 49-53		26
69	Laser welding of NiTi shape memory alloy: Comparison of the similar and dissimilar joints to AISI 304 stainless steel. <i>Optics and Laser Technology</i> , 2013 , 54, 151-158	4.2	62
68	Microstructure and mechanical properties of friction stir welded lean duplex stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 561, 486-491	5.3	55
67	Effect of Ti on the Formation of Nano/Ultrafine Grain Structure in the 201L Austenitic Stainless Steel through Martensite Thermomechanical Treatment 2013 , 71-78		
66	The improvement of ductility in nano/ultrafine grained low carbon steels via high temperature short time annealing. <i>Materials Letters</i> , 2012 , 74, 206-208	3.3	20
65	Synthesis of high intrinsic loss power aqueous ferrofluids of iron oxide nanoparticles by citric acid-assisted hydrothermal-reduction route. <i>Journal of Solid State Chemistry</i> , 2012 , 187, 20-26	3.3	53
64	Effects of thermo-mechanical parameters on microstructure and mechanical properties of Ti ₉₀ at.%Ni shape memory alloy produced by VAR method. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 535, 164-169	5.3	11
63	Comparative study on microstructure and homogeneity of NiTi shape memory alloy produced by copper boat induction melting and conventional vacuum arc melting. <i>Vacuum</i> , 2012 , 86, 1073-1077	3.7	17

62	Three-dimensional simulation of quenching process of plain carbon steel gears incorporating phase transformations. <i>Materials Science and Technology</i> , 2012 , 28, 197-204	1.5	5
61	Formation of nano/ultrafine grain structure in a 201 stainless steel through the repetitive martensite thermomechanical treatment. <i>Materials Letters</i> , 2012 , 89, 22-24	3.3	19
60	Bulk synthesis of ZnO nanoparticles by the one-step electromagnetic levitational gas condensation method. <i>Ceramics International</i> , 2012 , 38, 5871-5878	5.1	7
59	Synthesis of aqueous ferrofluids of Zn _x Fe _{3-x} O ₄ nanoparticles by citric acid assisted hydrothermal-reduction route for magnetic hyperthermia applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 2211-2217	2.8	50
58	Effect of Process Parameters on Microstructures and Mechanical Properties of a Nano/ultrafine Grained Low Carbon Steel Produced by Martensite Treatment Using Plane Strain Compression. <i>ISIJ International</i> , 2012 , 52, 464-470	1.7	4
57	PROCESSING OF NANO/SUBMICRON GRAINED STAINLESS STEEL 304L BY AN ADVANCED THERMOMECHANICAL PROCESS. <i>International Journal of Modern Physics Conference Series</i> , 2012 , 05, 383-390	0.7	8
56	Investigating microstructural evolution during homogenization of the equiatomic NiTi shape memory alloy produced by vacuum arc remelting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 7952-7955	5.3	20
55	Effect of reversion annealing on the formation of nano/ultrafine grained structure in 201 austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 530, 378-381	5.3	41
54	Formation mechanism of ZnO nanorods produced by the electromagnetic levitational gas condensation method. <i>Scientia Iranica</i> , 2011 , 18, 1647-1651	1.5	18
53	Characterization of microstructures and mechanical properties of Inconel 617/310 stainless steel dissimilar welds. <i>Materials Characterization</i> , 2011 , 62, 425-431	3.9	140
52	Electromagnetic-thermal coupled simulation of levitation melting of metals. <i>Journal of Materials Processing Technology</i> , 2011 , 211, 222-229	5.3	20
51	Microstructural investigation on strengthening mechanisms of AISI 304L austenitic stainless steel during cryogenic deformation. <i>Materials Science and Technology</i> , 2011 , 27, 1828-1832	1.5	14
50	The effect of bainite in producing nano/ultrafine grained steel by the martensite treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 3562-3567	5.3	19
49	Producing the nano/ultrafine grained low carbon steel by martensite process using plane strain compression. <i>Journal of Materials Processing Technology</i> , 2011 , 211, 230-236	5.3	25
48	Application of polymeric quenchant in heat treatment of crack-sensitive steel mechanical parts: Modeling and experiments. <i>Materials & Design</i> , 2011 , 32, 2870-2877		16
47	The influence of reversion annealing behavior on the formation of nanograined structure in AISI 201L austenitic stainless steel through martensite treatment. <i>Materials & Design</i> , 2011 , 32, 4437-4442		39
46	Production of nano/ultrafine grained AISI 201L stainless steel through advanced thermo-mechanical treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 5025-5029	5.3	46
45	Analytical&experimental approach for accurate depth profile evaluation of diffusion zone in plasma nitrided iron. <i>Surface Engineering</i> , 2011 , 27, 259-265	2.6	3

44	Synthesis of aluminum nanoparticles by electromagnetic levitational gas condensation method. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 6251-5	1.3	9
43	Optimizing the electrode position in sacrificial anode cathodic protection systems using boundary element method. <i>Corrosion Science</i> , 2010 , 52, 678-687	6.8	35
42	Microstructural evolution in a low carbon steel during cold rolling and subsequent annealing. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 6177-81	1.3	12
41	Nanoporous titania-coated alumina membranes: sol-gel synthesis and characterisation. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 6222-5	1.3	
40	Numerical Simulation and Experimental Investigation of Residual Stresses in the Circumferential Butt GTAW of Incoloy 800H Pipes. <i>Journal of Materials Engineering and Performance</i> , 2010 , 19, 13-21	1.6	9
39	Effects of process parameters on synthesis of Zn ultrafine/nanoparticles by electromagnetic levitational gas condensation. <i>Advanced Powder Technology</i> , 2010 , 21, 556-563	4.6	13
38	Production of nano/submicron grained AISI 304L stainless steel through the martensite reversion process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 7334-7339	5.3	100
37	Influence of mould design on the solidification of heavy forging ingots of low alloy steels by numerical simulation. <i>Materials & Design</i> , 2010 , 31, 1096-1104		44
36	The effect of cold rolling regime on microstructure and mechanical properties of AISI 304L stainless steel. <i>Journal of Materials Processing Technology</i> , 2010 , 210, 1017-1022	5.3	107
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