

Ahmad Kermanpur

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avg, IF

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L-index

#	Paper	IF	Citations
169	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
168	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
167	Effect of strain-induced martensite on the formation of nanocrystalline 316L stainless steel after cold rolling and annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 519, 46-50	5.3	140
166	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
165	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
164	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
163	Thermal and grain-structure simulation in a land-based turbine blade directionally solidified with the liquid metal cooling process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2000 , 31, 1293-1304	2.5	76
162	Failure analysis of Ti6Al4V gas turbine compressor blades. <i>Engineering Failure Analysis</i> , 2008 , 15, 1052-1064	3.4	70
161	Microstructural characterization of dissimilar welds between alloy 800 and HP heat-resistant steel. <i>Materials Characterization</i> , 2008 , 59, 1447-1454	3.9	64
160	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
159	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
158	Formation of Nanocrystalline Structure in 301 Stainless Steel Produced by Martensite Treatment. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009 , 40, 2241-2249	3.3	58
157	Potential application of nanocrystalline 301 austenitic stainless steel in lightweight vehicle structures. <i>Materials & Design</i> , 2009 , 30, 3869-3872		56
156	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
155	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
154	Numerical simulation of metal flow and solidification in the multi-cavity casting moulds of automotive components. <i>Journal of Materials Processing Technology</i> , 2008 , 206, 62-68	5.3	52
153	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

152	Effect of martensite to austenite reversion on the formation of nano/submicron grained AISI 301 stainless steel. <i>Materials Characterization</i> , 2009 , 60, 1220-1223	3.9	46
151	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
150	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
149	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
148	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> , 2019 , 113, 108-115	11.8	41
147	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
146	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
145	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
144	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
143	Directional solidification of Ni base superalloy IN738LC to improve creep properties. <i>Materials Science and Technology</i> , 2000 , 16, 579-586	1.5	39
142	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
141	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
140	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
139	Simulation of dendritic growth in the platform region of single crystal superalloy turbine blades. <i>Journal of Materials Science</i> , 2003 , 38, 4385-4391	4.3	36
138	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
137	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
136	Three-dimensional thermal simulation and experimental investigation of GTAW circumferentially butt-welded Incoloy 800 pipes. <i>Journal of Materials Processing Technology</i> , 2008 , 199, 295-303	5.3	32
135	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

134	Warm deformation processing maps for the plain eutectoid steels. <i>Journal of Alloys and Compounds</i> , 2015 , 626, 136-144	5.7	31
133	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
132	Formation of nano-grained structure in a 301 stainless steel using a repetitive thermo-mechanical treatment. <i>Materials Letters</i> , 2009 , 63, 1442-1444	3.3	31
131	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
130	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
129	Strengthening Mechanisms of Ultrafine Grained Dual Phase Steels Developed by New Thermomechanical Processing. <i>ISIJ International</i> , 2015 , 55, 218-226	1.7	29
128	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
127	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
126	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
125	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
124	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
123	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
122	The effect of cold rolling and annealing on microstructure and tensile properties of the nanostructured Ni ₅₀ Ti ₅₀ shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 607, 33-37	5.3	24
121	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
120	Numerical simulation and experimental investigation of temperature and residual stresses in GTAW with a heat sink process of Monel 400 plates. <i>Journal of Materials Processing Technology</i> , 2010 , 210, 1690-1701	5.3	24
119	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
118	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
117	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

116	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
115	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
114	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
113	Electromagnetic-thermal coupled simulation of levitation melting of metals. <i>Journal of Materials Processing Technology</i> , 2011 , 211, 222-229	5.3	20
112	Microstructural changes and mechanical properties of Incoloy 800 after 15 years service. <i>Materials Characterization</i> , 2009 , 60, 246-250	3.9	20
111	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
110	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
109	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
108	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
107	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
106	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
105	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
104	Formation mechanism of ZnO nanorods produced by the electromagnetic levitational gas condensation method. <i>Scientia Iranica</i> , 2011 , 18, 1647-1651	1.5	18
103	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
102	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
101	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
100	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
99	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

98	Numerical simulation of continuous cooling of a low alloy steel to predict microstructure and hardness. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2009 , 17, 045007	2	17
97	Integrated modeling for the manufacture of aerospace discs: Grain structure evolution. <i>Jom</i> , 2004 , 56, 72-78	2.1	17
96	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
95	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
94	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
93	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
92	Synthesis and characterisation of microporous titania membranes by dip-coating of anodised alumina substrates using sol-gel method. <i>Journal of Alloys and Compounds</i> , 2008 , 461, 331-335	5.7	16
91	Effect of process parameters on grain structure formation during VAR of INCONEL alloy 718. <i>Journal of Materials Science</i> , 2004 , 39, 7175-7182	4.3	15
90	Integrated modeling for the manufacture of Ni-based superalloy discs from solidification to final heat treatment. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 2493-2504	2.3	15
89	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
88	Microstructural investigation on deformation behavior of high purity Fe-Cr-Ni 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
87	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
86	Bulk synthesis of monodisperse Fe nanoparticles by electromagnetic levitational gas condensation method. <i>Materials Letters</i> , 2009 , 63, 575-577	3.3	14
85	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
84	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
83	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
82	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
81	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

80	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
79	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
78	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
77	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
76	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
75	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
74	Effect of electromagnetic vibration on the unmixed zone formation in 25Cr35Ni heat resistant steel/Alloy 800 dissimilar welds. <i>Materials Characterization</i> , 2008 , 59, 1814-1817	3.9	12
73	Improvement of grain structure and mechanical properties of a land based gas turbine blade directionally solidified with liquid metal cooling process. <i>Materials Science and Technology</i> , 2008 , 24, 100-106	1.5	12
72	Effects of thermo-mechanical parameters on microstructure and mechanical properties of Ti ₅₀ 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
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	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
69	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}		9
68	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
67	Nanocrystallization of the Ti ₅₀ Ni ₄₈ Co ₂ Shape Memory Alloy by Thermomechanical Treatment. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 445-451	1.6	9
66	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
65	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
64	Synthesis of aluminum nanoparticles by electromagnetic levitational gas condensation method. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 6251-5	1.3	9
63	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

62	Effect of solution annealing on weldability of aged alloy 800/25Cr35Ni steel dissimilar welds. <i>Science and Technology of Welding and Joining</i> , 2008 , 13, 515-523	3.7	9
61	Effect of N addition on microstructure refinement and high temperature mechanical properties of Ti6Al8Ta (at. %) intermetallic alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 817, 152749	5.7	9
60	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
59	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
58	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
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	Improving weldability of aged 25Cr35Ni heat resistant steel/alloy 800 dissimilar welds. <i>Science and Technology of Welding and Joining</i> , 2007 , 12, 586-592	3.7	8
55	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
54	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
53	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
52	Integrated model for tracking defects through full manufacturing route of aerospace discs. <i>Materials Science and Technology</i> , 2005 , 21, 437-444	1.5	7
51	Scalable, continuous variable, cellular automaton model for grain growth during homogenisation of vacuum arc remelted Inconel* 718. <i>Materials Science and Technology</i> , 2003 , 19, 859-865	1.5	7
50	A microstructural model of competitive growth in nickel based superalloys. <i>International Journal of Cast Metals Research</i> , 2003 , 15, 269-271	1	7
49	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
48	Numerical thermal simulation of graphite electrode in EAF during normal operation. <i>Ironmaking and Steelmaking</i> , 2008 , 35, 465-472	1.3	6
47	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
46	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
45	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

44	Numerical simulation and experimental investigation of temperature distribution in the circumferentially butt GTAW of Incoloy 800H pipes. <i>International Journal of Pressure Vessels and Piping</i> , 2010 , 87, 424-432	2.4	5
43	Artificial Neural Network Modeling of High Pressure Descaling Operation in Hot Strip Rolling of Steels. <i>ISIJ International</i> , 2008 , 48, 963-970	1.7	5
42	A novel analytical-artificial neural network model to improve efficiency of high pressure descaling nozzles in hot strip rolling of steels. <i>Materials Science and Technology</i> , 2007 , 23, 951-957	1.5	5
41	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
40	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
39	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
38	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
37	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
36	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
35	Effects of Thermo-mechanical Processing on the Mechanical Properties and Shape Recovery of the Nanostructured Ti50Ni45Cu5 Shape Memory Alloy 2015 , 11, 61-66		3
34	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
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