

Mohammad Jahazi

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189
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196
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6,182
ext. citations

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avg, IF

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#	Paper	IF	Citations
189	A review of laser welding techniques for magnesium alloys. <i>Journal of Materials Processing Technology</i> , 2006 , 171, 188-204	5.3	414
188	Strain hardening behavior of a friction stir welded magnesium alloy. <i>Scripta Materialia</i> , 2007 , 57, 1004-1007	5.3	291
187	Microstructure and tensile properties of friction stir welded AZ31B magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 472, 179-186	5.3	268
186	Linear friction welding of Ti-6Al-4V: Processing, microstructure, and mechanical-property inter-relationships. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 2149-2164	2.3	190
185	Hot working behavior of near- β alloy IMI834. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 396, 50-60	5.3	177
184	Effect of welding speed on butt joint quality of Ti-6Al-4V alloy welded using a high-power Nd:YAG laser. <i>Optics and Lasers in Engineering</i> , 2009 , 47, 1231-1241	4.6	154
183	Effect of tool rotational speed and probe length on lap joint quality of a friction stir welded magnesium alloy. <i>Materials & Design</i> , 2011 , 32, 1-11		141
182	Structure, Texture and Phases in 3D Printed IN718 Alloy Subjected to Homogenization and HIP Treatments. <i>Metals</i> , 2017 , 7, 196	2.3	135
181	Analysis of sharp microtexture heterogeneities in a bimodal IMI 834 billet. <i>Acta Materialia</i> , 2005 , 53, 3535-3543	8.4	126
180	Process optimisation and mechanical properties of friction stir lap welds of 7075-T6 stringers on 2024-T3 skin. <i>Materials & Design</i> , 2010 , 31, 3324-3330		122
179	Microstructural characteristics of forged and heat treated Inconel-718 disks. <i>Materials & Design</i> , 2013 , 52, 791-800		119
178	Deformation characteristics of isothermally forged UDIMET 720 nickel-base superalloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 895-905	2.3	118
177	Texture heterogeneities induced by subtransus processing of near β titanium alloys. <i>Acta Materialia</i> , 2008 , 56, 4298-4308	8.4	114
176	The influence of heat treatment conditions on γ characteristics in Udimet \square 720. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 373, 286-293	5.3	105
175	Effect of pre- and post-weld heat treatment on metallurgical and tensile properties of Inconel 718 alloy butt joints welded using 4 kW Nd:YAG laser. <i>Journal of Materials Science</i> , 2009 , 44, 4557-4571	4.3	96
174	Coarsening and dissolution of γ precipitates during solution treatment of AD730 \square Ni-based superalloy: Mechanisms and kinetics models. <i>Journal of Alloys and Compounds</i> , 2016 , 658, 981-995	5.7	92
173	Influence of thermomechanical processing on microstructural evolution in near- β alloy IMI834. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 416, 300-311	5.3	91

172	Polishing-assisted galvanic corrosion in the dissimilar friction stir welded joint of AZ31 magnesium alloy to 2024 aluminum alloy. <i>Materials Characterization</i> , 2009 , 60, 370-376	3.9	85
171	Flow stress prediction during hot working of near- β -titanium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 447, 99-110	5.3	85
170	Microstructure evolution at the onset of discontinuous dynamic recrystallization: A physics-based model of subgrain critical size. <i>Journal of Alloys and Compounds</i> , 2014 , 587, 199-210	5.7	81
169	Influence of tool geometry and rotational speed on mechanical properties and defect formation in friction stir lap welded 5456 aluminum alloy sheets. <i>Materials & Design</i> , 2014 , 58, 381-389		80
168	The non-equilibrium segregation of boron on original and moving austenite grain boundaries. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 335, 49-61	5.3	76
167	On material flow in Friction Stir Welded Al alloys. <i>Journal of Materials Processing Technology</i> , 2017 , 239, 284-296	5.3	70
166	The influence of hot forging conditions on the microstructure and mechanical properties of two microalloyed steels. <i>Journal of Materials Processing Technology</i> , 2001 , 113, 594-598	5.3	67
165	A Review on Inertia and Linear Friction Welding of Ni-Based Superalloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 1639-1669	2.3	66
164	Study of the variant selection in sharp textured regions of bimodal IMI 834 billet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 430, 157-164	5.3	66
163	Microstructural characteristics and tensile behavior of medium manganese steels with different manganese additions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 729, 496-507	5.3	61
162	Microstructural evolution during transient liquid phase bonding of Inconel 617 using Ni ₃ Si ₃ B filler metal. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 423, 269-281	5.3	60
161	Multi-Scale Analysis of IN-718 Microstructure Evolution During Linear Friction Welding. <i>Advanced Engineering Materials</i> , 2008 , 10, 573-578	3.5	57
160	Mechanical Property and Microstructure of Linear Friction Welded Waspaloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 729-744	2.3	55
159	Kinetics and Mechanisms of β -Reprecipitation in a Ni-based Superalloy. <i>Scientific Reports</i> , 2016 , 6, 28650	4.9	51
158	The influence of flow-forming parameters and microstructure on the quality of a D6ac steel. <i>Journal of Materials Processing Technology</i> , 2000 , 103, 362-366	5.3	49
157	Formation of Widmanstätten ferrite at very high temperatures in the austenite phase field. <i>Acta Materialia</i> , 2016 , 109, 23-31	8.4	41
156	Continuous Wave Nd:YAG Laser Welding of Sand-Cast ZE41A-T5 Magnesium Alloys. <i>Materials and Manufacturing Processes</i> , 2005 , 20, 987-1004	4.1	41
155	Nd:YAG laser welding of aerospace grade ZE41A magnesium alloy: Modeling and experimental investigations. <i>Materials Chemistry and Physics</i> , 2008 , 109, 61-76	4.4	40

154	The influence of hot rolling parameters on the microstructure and mechanical properties of an ultra-high strength steel. <i>Journal of Materials Processing Technology</i> , 2000 , 103, 276-279	5:3	40
153	Substructure of high temperature compressed titanium alloy IMI 834. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 434, 188-193	5:3	39
152	Maximizing the integrity of linear friction welded Waspaloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 555, 117-130	5:3	38
151	Optimization of Processing Parameters During Laser Cladding of ZE41A-T5 Magnesium Alloy Castings Using Taguchi Method. <i>Materials and Manufacturing Processes</i> , 2008 , 23, 413-418	4:1	37
150	Evolution of flow stress and microstructure during isothermal compression of Waspaloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 615, 497-510	5:3	36
149	Cracking in fusion zone and heat affected zone of electron beam welded Inconel-713LC gas turbine blades. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 642, 230-240	5:3	32
148	Linear Friction Welding of IN-718 Process Optimization and Microstructure Evolution. <i>Advanced Materials Research</i> , 2006 , 15-17, 357-362	0:5	32
147	Banded structures in friction stir welded Al alloys. <i>Journal of Materials Processing Technology</i> , 2015 , 221, 269-278	5:3	31
146	Tool Wear Characteristics and Effect on Microstructure in Ti-6Al-4V Friction Stir Welded Joints. <i>Metals</i> , 2016 , 6, 275	2:3	30
145	The effect of heating rate on microstructure and texture formation during annealing of heavily cold-rolled equiatomic CoCrFeMnNi high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 752-761	5:7	28
144	An automated method to analyze separately the microtextures of primary β grains and the secondary β inherited colonies in bimodal titanium alloys. <i>Materials Characterization</i> , 2005 , 54, 216-222	3:9	28
143	Microstructure and mechanical properties of surface and subsurface layers in broached and shot-peened Inconel-718 gas turbine disc fir-trees. <i>Materials Characterization</i> , 2017 , 132, 53-68	3:9	27
142	Local mechanical properties, microstructure, and microtexture in friction stir welded Ti-6Al-4V alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 749, 166-175	5:3	26
141	Effect of tool geometry and welding speed on mechanical properties of dissimilar AA2198/AA2024 FSWed joint. <i>Journal of Manufacturing Processes</i> , 2018 , 34, 86-95	5	26
140	Numerical analysis of the dwell phase in friction stir welding and comparison with experimental data. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 4152-4160	5:3	26
139	The effect of SiC/Al ₂ O ₃ particles used during FSP on mechanical properties of AZ91 magnesium alloy. <i>International Journal of Materials Research</i> , 2014 , 105, 369-374	0:5	25
138	Simultaneous enhancement of strength and ductility in cryogenically treated AISI D2 tool steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 598, 413-419	5:3	24
137	Microstructural and Microhardness Evolution from Homogenization and Hot Isostatic Pressing on Selective Laser Melted Inconel 718: Structure, Texture, and Phases. <i>Journal of Manufacturing and Materials Processing</i> , 2018 , 2, 30	2:2	23

136	Dynamic Recrystallization and Precipitation in 13Cr Super-Martensitic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 2219-2231	2.3	23
135	High temperature deformation of nickel base superalloy Udimet 520. <i>Materials Science and Technology</i> , 2004 , 20, 161-166	1.5	23
134	Strain induced σ precipitation in nickel base superalloy Udimet 720 using a stress relaxation based technique. <i>Scripta Materialia</i> , 2005 , 52, 771-776	5.6	23
133	Modeling Grain Size and Strain Rate in Linear Friction Welded Waspaloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 4230-4238	2.3	22
132	Dissolution and precipitation kinetics of β in nickel base superalloy Udimet 520. <i>Materials Science and Technology</i> , 2002 , 18, 458-462	1.5	22
131	Dynamic recrystallization in Monel400 Ni-Cu alloy: Mechanism and role of twinning. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 744, 376-385	5.3	22
130	Influence of Homogenization and Solution Treatments Time on the Microstructure and Hardness of Inconel 718 Fabricated by Laser Powder Bed Fusion Process. <i>Materials</i> , 2020 , 13,	3.5	21
129	Microstructural Evaluation of Friction Stir Processed AZ31B-H24 Magnesium Alloy. <i>Canadian Metallurgical Quarterly</i> , 2007 , 46, 425-432	0.9	21
128	In Situ Study of Phase Transformations during Non-Isothermal Tempering of Bainitic and Martensitic Microstructures. <i>Metals</i> , 2017 , 7, 346	2.3	20
127	Ti β Al β V electron beam weld qualification using laser scanning confocal microscopy. <i>Materials Characterization</i> , 2005 , 54, 254-262	3.9	20
126	Linear friction welding of Al β Ti Part 2 Interfacial characteristics. <i>Canadian Metallurgical Quarterly</i> , 2011 , 50, 360-370	0.9	19
125	Thin Gauge Titanium Manufacturing Using Multiple-Pass Electron Beam Welding. <i>Materials and Manufacturing Processes</i> , 2006 , 21, 439-451	4.1	19
124	Determination of the critical stress for the initiation of dynamic transformation in commercially pure titanium. <i>Scripta Materialia</i> , 2017 , 133, 83-85	5.6	18
123	Predicting residual stresses and distortion during multisequence welding of large size structures using FEM. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 73, 409-419	3.2	18
122	Linear friction welding of AD730 β Ni-base superalloy: Process-microstructure-property interactions. <i>Materials and Design</i> , 2019 , 183, 108117	8.1	17
121	Analysis of integrity and microstructure of linear friction welded Waspaloy. <i>Materials Characterization</i> , 2015 , 104, 149-161	3.9	17
120	Hot compression behavior and microstructure of selectively laser-melted IN718 alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 96, 371	3.2	17
119	Alternative phase transformation path in cryogenically treated AISI D2 tool steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 634, 32-36	5.3	16

118	Influence of prior cold deformation on microstructure evolution of AISI D2 tool steel after hardening heat treatment. <i>Journal of Manufacturing Processes</i> , 2016 , 22, 115-119	5	16
117	Design and optimisation of a phased array transducer for ultrasonic inspection of large forged steel ingots. <i>NDT and E International</i> , 2019 , 103, 119-129	4.1	15
116	An investigation to the effect of deformation-heat treatment cycle on the eutectic morphology and mechanical properties of a Thixocast A356 alloy. <i>Materials Characterization</i> , 2009 , 60, 817-823	3.9	15
115	Twin-assisted precipitation during hot compression of an Mg-Gd-Zn-Zr magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 706, 142-152	5.3	15
114	On the Occurrence of Liquation During Linear Friction Welding of Ni-Based Superalloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 2886-2899	2.3	14
113	Characteristics of Austenite Transformation During Post Forge Cooling of Large-Size High Strength Steel Ingots. <i>Metallography, Microstructure, and Analysis</i> , 2014 , 3, 281-297	1.1	14
112	On the impacts of tool geometry and cutting conditions in straight turning of aluminum alloys 6061-T6: an experimentally validated numerical study. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 106, 4547-4565	3.2	13
111	Microstructure Evolution During Transient Liquid Phase Bonding of Alloy 617. <i>Metallography, Microstructure, and Analysis</i> , 2013 , 2, 170-182	1.1	13
110	Deformation and Recrystallization Behavior of the Cast Structure in Large Size, High Strength Steel Ingots: Experimentation and Modeling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 4297-4313	2.3	13
109	Optimization of bead spacing during laser cladding of ZE41A-T5 magnesium alloy castings. <i>Journal of Materials Processing Technology</i> , 2008 , 205, 322-331	5.3	13
108	Effect of multipass deformation at elevated temperatures on the flow behavior and microstructural evolution in Ti-6Al-4V. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 729, 119-124	5.3	13
107	Dissolution kinetics and morphological changes of β in AD730Tmsuperalloy. <i>MATEC Web of Conferences</i> , 2014 , 14, 13005	0.3	12
106	Investigation of β platelet boundaries in a near- β titanium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 492, 450-454	5.3	12
105	The Determination of Optimum Forging Conditions for the Production of High Strength-High Impact Toughness Automotive Parts. <i>Materials and Manufacturing Processes</i> , 2006 , 21, 105-110	4.1	12
104	Examination and verification of the filtration mechanism of cake mode during the pressure filtration tests of liquid AlBi cast alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 408, 234-242	5.3	12
103	Effect of homogenization and solution treatments time on the elevated-temperature mechanical behavior of Inconel 718 fabricated by laser powder bed fusion. <i>Scientific Reports</i> , 2021 , 11, 2020	4.9	12
102	On the hot cracking of HSLA steel welds: Role of epitaxial growth and HAZ grain size. <i>Journal of Manufacturing Processes</i> , 2019 , 41, 242-251	5	11
101	Evolution of A-Type Macroseggregation in Large Size Steel Ingot After Multistep Forging and Heat Treatment. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 1046-1055	2.5	11

100	Friction stir lap welding of 5456 aluminum alloy with different sheet thickness: process optimization and microstructure evolution. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 82, 39-48	3.2	11
99	The development of an optimum manufacturing and material selection process for the fabrication of labyrinth seal strips. <i>Journal of Materials Processing Technology</i> , 2004 , 152, 272-275	5.3	11
98	Impact Toughness and Tensile Properties Improvement through Microstructure Control in Hot Forged Nb-V Microalloyed Steel. <i>ISIJ International</i> , 2005 , 45, 272-280	1.7	11
97	Cold spray deposition characteristic and bonding of CrMnCoFeNi high entropy alloy. <i>Surface and Coatings Technology</i> , 2021 , 425, 127748	4.4	11
96	Experimental and unsteady CFD analyses of the heating process of large size forgings in a gas-fired furnace. <i>Case Studies in Thermal Engineering</i> , 2019 , 14, 100428	5.6	10
95	Precipitation behaviour and mechanical properties of a new wrought high entropy superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 749, 271-280	5.3	10
94	Martensitic transformation in AISI D2 tool steel during continuous cooling to 173 K. <i>Journal of Materials Science</i> , 2015 , 50, 5758-5768	4.3	10
93	A viscoplastic model based on a variable strain rate sensitivity index for superplastic sheet metals. <i>International Journal of Material Forming</i> , 2019 , 12, 693-702	2	10
92	Influence of strain rate on dynamic transformation of austenite in an as-cast medium-carbon low-alloy steel. <i>Materialia</i> , 2018 , 1, 155-167	3.2	10
91	The role of ausforming in the stability of retained austenite in a medium-C carbide-free bainitic steel. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 7762-7776	5.5	9
90	Accurate determination of damaged subsurface layers in machined Inconel 718. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 88, 3419-3427	3.2	9
89	Effect of turning environments and parameters on surface integrity of AA6061-T6: experimental analysis, predictive modeling, and multi-criteria optimization. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 110, 2669-2683	3.2	9
88	Retained Austenite Decomposition and Carbide Precipitation during Isothermal Tempering of a Medium-Carbon Low-Alloy Bainitic Steel. <i>Materials</i> , 2018 , 11,	3.5	9
87	High temperature creep properties of a linear friction welded newly developed wrought Ni-based superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 710, 214-226	5.3	8
86	Cracking mechanisms in large size ingots of high nickel content low alloyed steel. <i>Engineering Failure Analysis</i> , 2016 , 68, 122-131	3.2	8
85	Influence of cryogenic process parameters on microstructure and hardness evolution of AISI D2 tool steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 85, 881-890	3.2	8
84	Electron beam freeforming on type 321 stainless steel using BNi-2 brazing paste. <i>Materials Science and Technology</i> , 2005 , 21, 613-618	1.5	8
83	Influence of thermomechanical shrinkage on macrosegregation during solidification of a large-sized high-strength steel ingot. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 99, 3035-3048	3.2	8

82	Prediction of heat transfer coefficient during quenching of large size forged blocks using modeling and experimental validation. <i>Case Studies in Thermal Engineering</i> , 2019 , 13, 100379	5.6	7
81	Austenite grain growth and hot deformation behavior in a medium carbon low alloy steel. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 12102-12114	5.5	7
80	Determination of the Critical Stress Associated with Dynamic Phase Transformation in Steels by Means of Free Energy Method. <i>Metals</i> , 2018 , 8, 360	2.3	7
79	Formation of precipitates in parallel arrays on LPSO structures during hot deformation of GZ41K magnesium alloy. <i>Materials Characterization</i> , 2017 , 131, 234-243	3.9	7
78	Estimation of resistance of filter media used for Prefil Footprinter tests of liquid aluminium alloys. <i>Materials Science and Technology</i> , 2005 , 21, 1192-1198	1.5	7
77	Influence of Process Parameters on Microstructure Evolution During Hot Deformation of a Eutectic High-Entropy Alloy (EHEA). <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 6406-6420	2.3	7
76	On the Effect of Filling Rate on Positive Macrosegregation Patterns in Large Size Cast Steel Ingots. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1878	2.6	7
75	Hot ductility behavior of AD730 nickel-base superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 766, 138391	5.3	6
74	Characterization of Subsurface Microstructural Alterations Induced by Hard Turning of Inconel 718. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 7016-7024	1.6	6
73	Discrepancy between fatigue and dwell-fatigue behavior of near alpha titanium alloys simulated by cellular automata. <i>International Journal of Fatigue</i> , 2013 , 51, 49-56	5	6
72	The influence of thermochemical treatments on interface quality and properties of copper/carbon-fibre composites. <i>Composites Science and Technology</i> , 1999 , 59, 1969-1975	8.6	6
71	Grain size and misorientation evolution in linear friction welding of additively manufactured IN718 to forged superalloy AD730. <i>Materials Characterization</i> , 2021 , 171, 110766	3.9	6
70	Dissimilar linear friction welding of selective laser melted Inconel 718 to forged Ni-based superalloy AD730. Evolution of strengthening phases. <i>Journal of Materials Science and Technology</i> , 2022 , 96, 248-261	9.1	6
69	Influence of predeformation on microstructure evolution of superplastically formed Al 5083 alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 88, 2929-2937	3.2	5
68	On the Role of Chromium in Dynamic Transformation of Austenite. <i>Metals and Materials International</i> , 2019 , 25, 559-569	2.4	5
67	Simulation and experimental validation of the effect of superheat on macrosegregation in large-size steel ingots. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 107, 167-175	3.2	5
66	Mechanical and Metallurgical Evolution of Stainless Steel 321 in a Multi-step Forming Process. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 1526-1538	1.6	5
65	A New Approach in Optimizing the Induction Heating Process Using Flux Concentrators: Application to 4340 Steel Spur Gear. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 3092-3099	1.6	5

64	Variation of strain rate sensitivity index of a superplastic aluminum alloy in different testing methods 2017 ,		5
63	IMPROVING THE FORMABILITY OF STAINLESS STEEL 321 THROUGH MULTISTEP DEFORMATION FOR HYDROFORMING APPLICATIONS. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 2013 , 37, 39-52	1.1	5
62	The influence of thermomechanical parameters on the earing behaviour of 1050 and 1100 aluminium alloys. <i>Journal of Materials Processing Technology</i> , 1997 , 63, 610-613	5.3	5
61	Characterization of Electron Beam Welded 17-4 PH Stainless Steel. <i>Canadian Metallurgical Quarterly</i> , 2008 , 47, 413-435	0.9	5
60	MICROSTRUCTURAL MODELING OF COLD CREEP/FATIGUE IN NEAR ALPHA TITANIUM ALLOYS USING CELLULAR AUTOMATA METHOD. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 2008 , 32, 195-212	1.1	5
59	Modeling of the microstructure alteration induced by hard turning of Inconel 718. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 93, 3705-3712	3.2	5
58	FEM modeling and experimental validation of quench-induced distortions of large size steel forgings. <i>Journal of Manufacturing Processes</i> , 2020 , 58, 592-605	5	5
57	Effect of heat treatments on microstructural and mechanical characteristics of dissimilar friction stir welded 2198/2024 aluminum alloys. <i>Journal of Adhesion Science and Technology</i> , 1-19	2	5
56	Development and Microstructural Characterization of a New Wrought High Entropy Superalloy. <i>Metals and Materials International</i> , 2020 , 26, 591-602	2.4	5
55	Assessing the scale contributing factors of three carbide-free bainitic steels: A complementary theoretical and experimental approach. <i>Materials and Design</i> , 2021 , 197, 109217	8.1	5
54	Optimization of the Post-Process Heat Treatment of Inconel 718 Superalloy Fabricated by Laser Powder Bed Fusion Process. <i>Metals</i> , 2021 , 11, 144	2.3	5
53	Linear friction welding process simulation of Ti-6Al-4V alloy: a heat transfer analysis of the conditioning phase. <i>Procedia Manufacturing</i> , 2018 , 15, 1382-1390	1.5	5
52	Dynamic Phase Transformation Behavior of a Nb-microalloyed Steel during Roughing Passes at Temperatures above the Ae3. <i>Metals</i> , 2019 , 9, 334	2.3	4
51	Assessing Microstructure-Local Mechanical Properties in Friction Stir Welded 6082-T6 Aluminum Alloy. <i>Metals</i> , 2020 , 10, 1244	2.3	4
50	Microstructure Evolution of Selective Laser Melted Inconel 718: Influence of High Heating Rates. <i>Metals</i> , 2020 , 10, 587	2.3	4
49	Numerical Simulation of Water Quenching of Large Size Steel Forgings: Effects of Macroseggregation and Grain Size on Phase Distribution. <i>Journal of Manufacturing and Materials Processing</i> , 2018 , 2, 34	2.2	4
48	Thermomechanical Characterization of Mg-9Al-1Zn Alloy Using Power Dissipation Maps. <i>Journal of Materials Engineering and Performance</i> , 2013 , 22, 3306-3314	1.6	4
47	Microtexture Analysis in Correlation with HCP Textured Regions Observed in a Forged Near Alpha Titanium Alloy. <i>Solid State Phenomena</i> , 2005 , 105, 127-132	0.4	4

46	Analysis of Void Closure during Open Die Forging Process of Large Size Steel Ingots. <i>Key Engineering Materials</i> , 2016 , 716, 579-585	0.4	4
45	Finite Element Simulation of High-Speed Blow Forming of an Automotive Component. <i>Metals</i> , 2018 , 8, 901	2.3	4
44	Application of Shear Punch Testing to Study Microstructure-Property Relationships in Electron Beam Welded 17-4 PH Stainless Steel. <i>Canadian Metallurgical Quarterly</i> , 2009 , 48, 317-326	0.9	3
43	The influence of thermomechanical treatment on the microstructure and mechanical properties of aisi 4130 steel. <i>Metals and Materials International</i> , 1998 , 4, 818-822		3
42	Influence of Nickel on High-Temperature Oxidation and Characteristics of Oxide Layers in Two High-Strength Steels. <i>Steel Research International</i> , 2020 , 91, 1900536	1.6	3
41	Influence of the cooling rate below Ms on the martensitic transformation in a low alloy medium-carbon steel. <i>Journal of Materials Research and Technology</i> , 2021 , 12, 234-242	5.5	3
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35	Influence of initial microstructure and grain size on transformation of bainite to austenite in large size forgings. <i>Journal of Iron and Steel Research International</i> , 2018 , 25, 554-562	1.2	2
34	Influence of Local Mechanical Parameters on Ultrasonic Wave Propagation in Large Forged Steel Ingots. <i>Journal of Nondestructive Evaluation</i> , 2019 , 38, 1	2.1	2
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31	A Proposition for New Quality 3D Indexes to Measure Surface Roughness. <i>Procedia CIRP</i> , 2016 , 46, 327-338		2
30	Optimization of furnace residence time and loading pattern during heat treatment of large size forgings. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 113, 2447-2460	3.2	2
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23	Macrosegregation Characteristics of Ferrite and Austenite Stabilizer Elements in Large Size High Strength Steel Ingot. <i>Key Engineering Materials</i> , 2020 , 846, 82-86	0.4	1
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15	Influence of thermally grown oxide layers thickness on temperature evolution during the forging of large size steel ingots. <i>Materials Chemistry and Physics</i> , 2021 , 125269	4.4	1
14	FE Modelling and Prediction of Macrosegregation Patterns in Large Size Steel Ingots: Influence of Filling Rate. <i>Metals</i> , 2022 , 12, 29	2.3	1
13	Effect of Double Hit Hot Deformation on the Evolution of Dynamically Transformed Ferrite. <i>Metals and Materials International</i> , 2020 , 1	2.4	0
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1	Effect of the ausforming deformation mode on bainitic transformation in a medium carbon high silicon steel. <i>Journal of Materials Research and Technology</i> , 2022 , 18, 3428-3442	5.5	