

# Mohammad Jahazi

## 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.

189  
papers

5,464  
citations

38  
h-index

69  
g-index

196  
ext. papers

6,182  
ext. citations

3.5  
avg, IF

6.05  
L-index

#	Paper	IF	Citations
189	Stability of the microstructure and elevated-temperature mechanical properties of additively manufactured Inconel 718 superalloy subjected to long-term in-service thermal cycling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 202, 1-12720	5.3	2
188	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> , <b>2022</b> , 96, 248-261	9.1	6
187	FE Modelling and Prediction of Macrosegregation Patterns in Large Size Steel Ingots: Influence of Filling Rate. <i>Metals</i> , <b>2022</b> , 12, 29	2.3	1
186	Effect of the ausforming deformation mode on bainitic transformation in a medium carbon high silicon steel. <i>Journal of Materials Research and Technology</i> , <b>2022</b> , 18, 3428-3442	5.5	
185	Microstructure-Based FEM Modeling of Phase Transformation During Quenching of Large-Size Steel Forgings. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2021</b> , 52, 1883-1900	2.3	1
184	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> , <b>2021</b> , 12, 234-242	5.5	3
183	Post-Weld Heat Treatment of Additively Manufactured Inconel 718 Welded to Forged Ni-Based Superalloy AD730 by Linear Friction Welding. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2021</b> , 52, 3475	2.3	1
182	Effects of ausforming temperature on carbide-free bainite transformation and its correlation to the transformation plasticity strain in a medium C- Si-rich steel. <i>Materials Characterization</i> , <b>2021</b> , 176, 111124	3.9	0
181	Assessing the scale contributing factors of three carbide-free bainitic steels: A complementary theoretical and experimental approach. <i>Materials and Design</i> , <b>2021</b> , 197, 109217	8.1	5
180	Grain size and misorientation evolution in linear friction welding of additively manufactured IN718 to forged superalloy AD730— <i>Materials Characterization</i> , <b>2021</b> , 171, 110766	3.9	6
179	Optimization of the Post-Process Heat Treatment of Inconel 718 Superalloy Fabricated by Laser Powder Bed Fusion Process. <i>Metals</i> , <b>2021</b> , 11, 144	2.3	5
178	Analysis and optimization of surface roughness in turning of AA6061-T6 under various environments and parameters. <i>Procedia CIRP</i> , <b>2021</b> , 101, 17-20	1.8	1
177	Phased array probe for the inspection of large steel forgings. <i>Cogent Engineering</i> , <b>2021</b> , 8, 1929040	1.5	
176	Optimization of furnace residence time and loading pattern during heat treatment of large size forgings. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2021</b> , 113, 2447-2460	3.2	2
175	Influence of eutectic phase precipitation on cracking susceptibility during forging of a martensitic stainless steel for turbine shaft applications. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 13, 260-270	5.5	0
174	Influence of thermally grown oxide layers thickness on temperature evolution during the forging of large size steel ingots. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 125269	4.4	1
173	Microstructural evolution during tempering of an ausformed carbide-free low temperature bainitic steel. <i>Materials and Design</i> , <b>2021</b> , 210, 110082	8.1	0

172	Cold spray deposition characteristic and bonding of CrMnCoFeNi high entropy alloy. <i>Surface and Coatings Technology</i> , <b>2021</b> , 425, 127748	4.4	11
171	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> , <b>2021</b> , 11, 2020	4.9	12
170	Assessing Microstructure-Local Mechanical Properties in Friction Stir Welded 6082-T6 Aluminum Alloy. <i>Metals</i> , <b>2020</b> , 10, 1244	2.3	4
169	Austenite grain growth and hot deformation behavior in a medium carbon low alloy steel. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 12102-12114	5.5	7
168	Microstructure Evolution of Selective Laser Melted Inconel 718: Influence of High Heating Rates. <i>Metals</i> , <b>2020</b> , 10, 587	2.3	4
167	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> , <b>2020</b> , 13,	3.5	21
166	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> , <b>2020</b> , 9, 7762-7776	5.5	9
165	Simulation and experimental validation of the effect of superheat on macrosegregation in large-size steel ingots. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2020</b> , 107, 167-175	3.2	5
164	Die-sinking EDM of Al6061-T6: interactions between process parameters, process performance, and surface characteristics. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2020</b> , 107, 333-342	3.2	2
163	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> , <b>2020</b> , 106, 4547-4565	3.2	13
162	Influence of Nickel on High-Temperature Oxidation and Characteristics of Oxide Layers in Two High-Strength Steels. <i>Steel Research International</i> , <b>2020</b> , 91, 1900536	1.6	3
161	On the Impact of Microsegregation Model on the Thermophysical and Solidification Behaviors of a Large Size Steel Ingot. <i>Metals</i> , <b>2020</b> , 10, 74	2.3	2
160	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> , <b>2020</b> , 51, 6406-6420	2.3	7
159	Retransformation of dynamically induced ferrite during physical simulation of Steckel mill hot rolling. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 10254-10264	5.5	1
158	Macrosegregation Characteristics of Ferrite and Austenite Stabilizer Elements in Large Size High Strength Steel Ingot. <i>Key Engineering Materials</i> , <b>2020</b> , 846, 82-86	0.4	1
157	FEM modeling and experimental validation of quench-induced distortions of large size steel forgings. <i>Journal of Manufacturing Processes</i> , <b>2020</b> , 58, 592-605	5	5
156	Effect of Double Hit Hot Deformation on the Evolution of Dynamically Transformed Ferrite. <i>Metals and Materials International</i> , <b>2020</b> , 1	2.4	0
155	The Effect of Retained Work Hardening on the Driving Force for Dynamic Transformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 5617-5622	2.3	1

154	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> , <b>2020</b> , 110, 2669-2683	3.2	9
153	Development and Microstructural Characterization of a New Wrought High Entropy Superalloy. <i>Metals and Materials International</i> , <b>2020</b> , 26, 591-602	2.4	5
152	Linear friction welding of AD730 Ni-base superalloy: Process-microstructure-property interactions. <i>Materials and Design</i> , <b>2019</b> , 183, 108117	8.1	17
151	On the Role of Chromium in Dynamic Transformation of Austenite. <i>Metals and Materials International</i> , <b>2019</b> , 25, 559-569	2.4	5
150	Local mechanical properties, microstructure, and microtexture in friction stir welded Ti-6Al-4V alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 749, 166-175	5.3	26
149	Design and optimisation of a phased array transducer for ultrasonic inspection of large forged steel ingots. <i>NDT and E International</i> , <b>2019</b> , 103, 119-129	4.1	15
148	Prediction of heat transfer coefficient during quenching of large size forged blocks using modeling and experimental validation. <i>Case Studies in Thermal Engineering</i> , <b>2019</b> , 13, 100379	5.6	7
147	On the hot cracking of HSLA steel welds: Role of epitaxial growth and HAZ grain size. <i>Journal of Manufacturing Processes</i> , <b>2019</b> , 41, 242-251	5	11
146	Dynamic Phase Transformation Behavior of a Nb-microalloyed Steel during Roughing Passes at Temperatures above the Ae3. <i>Metals</i> , <b>2019</b> , 9, 334	2.3	4
145	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> , <b>2019</b> , 14, 100428	5.6	10
144	Precipitation behaviour and mechanical properties of a new wrought high entropy superalloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 749, 271-280	5.3	10
143	Influence of Local Mechanical Parameters on Ultrasonic Wave Propagation in Large Forged Steel Ingots. <i>Journal of Nondestructive Evaluation</i> , <b>2019</b> , 38, 1	2.1	2
142	Hot ductility behavior of AD730 nickel-base superalloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 766, 138391	5.3	6
141	Characterization of Subsurface Microstructural Alterations Induced by Hard Turning of Inconel 718. <i>Journal of Materials Engineering and Performance</i> , <b>2019</b> , 28, 7016-7024	1.6	6
140	Prediction of material behavior during biaxial stretching of superplastic 5083 aluminum alloy. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2019</b> , 102, 2357-2366	3.2	3
139	Dynamic recrystallization in Monel400 Ni-Cu alloy: Mechanism and role of twinning. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 744, 376-385	5.3	22
138	A viscoplastic model based on a variable strain rate sensitivity index for superplastic sheet metals. <i>International Journal of Material Forming</i> , <b>2019</b> , 12, 693-702	2	10
137	Determination of the Root Causes for Cracking in a Large-Size Cast Ingot of AISI 4317 Steel Using Microstructural Analysis. <i>Metallography, Microstructure, and Analysis</i> , <b>2018</b> , 7, 203-208	1.1	1

136	Evolution of A-Type Macrosegregation in Large Size Steel Ingot After Multistep Forging and Heat Treatment. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2018</b> , 49, 1046-1055	2.5	11
135	Hot compression behavior and microstructure of selectively laser-melted IN718 alloy. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 96, 371	3.2	17
134	Microstructural characteristics and tensile behavior of medium manganese steels with different manganese additions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 729, 496-507	5.3	61
133	High temperature creep properties of a linear friction welded newly developed wrought Ni-based superalloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 710, 214-226	5.3	8
132	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> , <b>2018</b> , 2, 30	2.2	23
131	Numerical Simulation of Water Quenching of Large Size Steel Forgings: Effects of Macrosegregation and Grain Size on Phase Distribution. <i>Journal of Manufacturing and Materials Processing</i> , <b>2018</b> , 2, 34	2.2	4
130	Determination of the Critical Stress Associated with Dynamic Phase Transformation in Steels by Means of Free Energy Method. <i>Metals</i> , <b>2018</b> , 8, 360	2.3	7
129	Phased array inspection of large size forged steel parts <b>2018</b> ,		2
128	Effect of tool geometry and welding speed on mechanical properties of dissimilar AA2198/AA2024 FSWed joint. <i>Journal of Manufacturing Processes</i> , <b>2018</b> , 34, 86-95	5	26
127	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> , <b>2018</b> , 25, 554-562	1.2	2
126	Finite Element Simulation of High-Speed Blow Forming of an Automotive Component. <i>Metals</i> , <b>2018</b> , 8, 901	2.3	4
125	Cracking and Failure in a High Strength Low Alloy Steel during Solidification. <i>Materials Science Forum</i> , <b>2018</b> , 941, 15-20	0.4	1
124	3D FEM Simulation of the Effect of Cooling Rate on SDAS and Macrosegregation of a High Strength Steel. <i>Materials Science Forum</i> , <b>2018</b> , 941, 2360-2364	0.4	1
123	On the Effect of Filling Rate on Positive Macrosegregation Patterns in Large Size Cast Steel Ingots. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 1878	2.6	7
122	Influence of Starting Microstructure on Dilatation Behavior during Tempering of a High Strength Steel. <i>Materials Science Forum</i> , <b>2018</b> , 941, 305-310	0.4	1
121	A Numerical Thermal Analysis of the Heating Process of Large Size Forged Ingots. <i>Materials Science Forum</i> , <b>2018</b> , 941, 2278-2283	0.4	
120	Prediction of Steel Transformation Temperatures Using Thermodynamic Modeling and Design of Experiments (DOE). <i>Materials Science Forum</i> , <b>2018</b> , 941, 2284-2289	0.4	2
119	Linear friction welding process simulation of Ti-6Al-4V alloy: a heat transfer analysis of the conditioning phase. <i>Procedia Manufacturing</i> , <b>2018</b> , 15, 1382-1390	1.5	5

118	Characterization of mechanical properties and formability of a superplastic Al-Mg alloy. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1063, 012165	0.3	2
117	Hot Deformation Behavior of a Nickel-modified AISI 4330 Steel. <i>ISIJ International</i> , <b>2018</b> , 58, 1711-1720	1.7	2
116	Influence of thermomechanical shrinkage on macrosegregation during solidification of a large-sized high-strength steel ingot. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 99, 3035-3048	3.2	8
115	Kinetics of Post-dynamic Coarsening and Reverse Transformation in Ti-6Al-4V. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2018</b> , 49, 5956-5961	2.3	3
114	Retained Austenite Decomposition and Carbide Precipitation during Isothermal Tempering of a Medium-Carbon Low-Alloy Bainitic Steel. <i>Materials</i> , <b>2018</b> , 11,	3.5	9
113	Effect of multipass deformation at elevated temperatures on the flow behavior and microstructural evolution in Ti-6Al-4V. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 729, 119-124	5.3	13
112	Influence of strain rate on dynamic transformation of austenite in an as-cast medium-carbon low-alloy steel. <i>Materialia</i> , <b>2018</b> , 1, 155-167	3.2	10
111	Surface characterization of die inserts used for LED lamp plastic lenses. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2017</b> , 88, 3395-3403	3.2	2
110	Influence of predeformation on microstructure evolution of superplastically formed Al 5083 alloy. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2017</b> , 88, 2929-2937	3.2	5
109	Determination of the critical stress for the initiation of dynamic transformation in commercially pure titanium. <i>Scripta Materialia</i> , <b>2017</b> , 133, 83-85	5.6	18
108	Effect of Cooling Rate on Phase Transformation and Microstructure Evolution in a Large Size Forged Ingot of Medium Carbon Low Alloy Steel. <i>Minerals, Metals and Materials Series</i> , <b>2017</b> , 413-423	0.3	1
107	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> , <b>2017</b> , 48, 2886-2895	2.3	14
106	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> , <b>2017</b> , 132, 53-68	3.9	27
105	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> , <b>2017</b> , 48, 4297-4313	2.3	13
104	Formation of precipitates in parallel arrays on LPSO structures during hot deformation of GZ41K magnesium alloy. <i>Materials Characterization</i> , <b>2017</b> , 131, 234-243	3.9	7
103	Accurate determination of damaged subsurface layers in machined Inconel 718. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2017</b> , 88, 3419-3427	3.2	9
102	On material flow in Friction Stir Welded Al alloys. <i>Journal of Materials Processing Technology</i> , <b>2017</b> , 239, 284-296	5.3	70
101	Variation of strain rate sensitivity index of a superplastic aluminum alloy in different testing methods <b>2017</b> ,		5

100	Structure, Texture and Phases in 3D Printed IN718 Alloy Subjected to Homogenization and HIP Treatments. <i>Metals</i> , <b>2017</b> , 7, 196	2.3	135
99	In Situ Study of Phase Transformations during Non-Isothermal Tempering of Bainitic and Martensitic Microstructures. <i>Metals</i> , <b>2017</b> , 7, 346	2.3	20
98	Modeling of the microstructure alteration induced by hard turning of Inconel 718. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2017</b> , 93, 3705-3712	3.2	5
97	Twin-assisted precipitation during hot compression of an Mg-Gd-Zn-Zr magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 706, 142-152	5.3	15
96	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> , <b>2016</b> , 688, 752-761	5.7	28
95	The Effects of Friction Stir Welding Parameters on the Characteristics of Banded Structure for Aluminum Alloys. <i>Key Engineering Materials</i> , <b>2016</b> , 710, 155-159	0.4	
94	Kinetics and Mechanisms of $\beta$ Reprecipitation in a Ni-based Superalloy. <i>Scientific Reports</i> , <b>2016</b> , 6, 28650	4.9	51
93	Cracking mechanisms in large size ingots of high nickel content low alloyed steel. <i>Engineering Failure Analysis</i> , <b>2016</b> , 68, 122-131	3.2	8
92	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> , <b>2016</b> , 82, 39-48	3.2	11
91	Influence of cryogenic process parameters on microstructure and hardness evolution of AISI D2 tool steel. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2016</b> , 85, 881-890	3.2	8
90	Formation of Widmanstätten ferrite at very high temperatures in the austenite phase field. <i>Acta Materialia</i> , <b>2016</b> , 109, 23-31	8.4	41
89	Mechanical and Metallurgical Evolution of Stainless Steel 321 in a Multi-step Forming Process. <i>Journal of Materials Engineering and Performance</i> , <b>2016</b> , 25, 1526-1538	1.6	5
88	Coarsening and dissolution of $\gamma$ precipitates during solution treatment of AD730 Ni-based superalloy: Mechanisms and kinetics models. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 658, 981-995	5.7	92
87	Tool Wear Characteristics and Effect on Microstructure in Ti-6Al-4V Friction Stir Welded Joints. <i>Metals</i> , <b>2016</b> , 6, 275	2.3	30
86	A Proposition for New Quality 3D Indexes to Measure Surface Roughness. <i>Procedia CIRP</i> , <b>2016</b> , 46, 327-330	3.0	2
85	Analysis of Void Closure during Open Die Forging Process of Large Size Steel Ingots. <i>Key Engineering Materials</i> , <b>2016</b> , 716, 579-585	0.4	4
84	Influence of prior cold deformation on microstructure evolution of AISI D2 tool steel after hardening heat treatment. <i>Journal of Manufacturing Processes</i> , <b>2016</b> , 22, 115-119	5	16
83	Banded structures in friction stir welded Al alloys. <i>Journal of Materials Processing Technology</i> , <b>2015</b> , 221, 269-278	5.3	31

82	Cracking in fusion zone and heat affected zone of electron beam welded Inconel-713LC gas turbine blades. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 642, 230-240	5.3	32
81	Martensitic transformation in AISI D2 tool steel during continuous cooling to 173 K. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 5758-5768	4.3	10
80	Alternative phase transformation path in cryogenically treated AISI D2 tool steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 634, 32-36	5.3	16
79	Analysis of integrity and microstructure of linear friction welded Waspaloy. <i>Materials Characterization</i> , <b>2015</b> , 104, 149-161	3.9	17
78	A Review on Inertia and Linear Friction Welding of Ni-Based Superalloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 1639-1669	2.3	66
77	Influence of tool geometry and rotational speed on mechanical properties and defect formation in friction stir lap welded 5456 aluminum alloy sheets. <i>Materials &amp; Design</i> , <b>2014</b> , 58, 381-389		80
76	Predicting residual stresses and distortion during multisequence welding of large size structures using FEM. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2014</b> , 73, 409-419	3.2	18
75	Simultaneous enhancement of strength and ductility in cryogenically treated AISI D2 tool steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 598, 413-419	5.3	24
74	Characteristics of Austenite Transformation During Post Forge Cooling of Large-Size High Strength Steel Ingots. <i>Metallography, Microstructure, and Analysis</i> , <b>2014</b> , 3, 281-297	1.1	14
73	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> , <b>2014</b> , 23, 3092-3099	1.6	5
72	Evolution of flow stress and microstructure during isothermal compression of Waspaloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 615, 497-510	5.3	36
71	Microstructure evolution at the onset of discontinuous dynamic recrystallization: A physics-based model of subgrain critical size. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 587, 199-210	5.7	81
70	Dissolution kinetics and morphological changes of $\sigma$ in AD730Tmsuperalloy. <i>MATEC Web of Conferences</i> , <b>2014</b> , 14, 13005	0.3	12
69	The effect of SiC/Al <sub>2</sub> O <sub>3</sub> particles used during FSP on mechanical properties of AZ91 magnesium alloy. <i>International Journal of Materials Research</i> , <b>2014</b> , 105, 369-374	0.5	25
68	Dynamic Recrystallization and Precipitation in 13Cr Super-Martensitic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 2219-2231	2.3	23
67	Microstructure Evolution During Transient Liquid Phase Bonding of Alloy 617. <i>Metallography, Microstructure, and Analysis</i> , <b>2013</b> , 2, 170-182	1.1	13
66	Modeling Grain Size and Strain Rate in Linear Friction Welded Waspaloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 4230-4238	2.3	22
65	Thermomechanical Characterization of Mg-9Al-1Zn Alloy Using Power Dissipation Maps. <i>Journal of Materials Engineering and Performance</i> , <b>2013</b> , 22, 3306-3314	1.6	4



64	Discrepancy between fatigue and dwell-fatigue behavior of near alpha titanium alloys simulated by cellular automata. <i>International Journal of Fatigue</i> , <b>2013</b> , 51, 49-56	5	6
63	Microstructural characteristics of forged and heat treated Inconel-718 disks. <i>Materials &amp; Design</i> , <b>2013</b> , 52, 791-800		119
62	IMPROVING THE FORMABILITY OF STAINLESS STEEL 321 THROUGH MULTISTEP DEFORMATION FOR HYDROFORMING APPLICATIONS. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , <b>2013</b> , 37, 39-52	1.1	5
61	Maximizing the integrity of linear friction welded Waspaloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 555, 117-130	5.3	38
60	Linear friction welding of AlCu Part 2 Interfacial characteristics. <i>Canadian Metallurgical Quarterly</i> , <b>2011</b> , 50, 360-370	0.9	19
59	Mechanical Property and Microstructure of Linear Friction Welded WAsPALOY. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2011</b> , 42, 729-744	2.3	55
58	Effect of tool rotational speed and probe length on lap joint quality of a friction stir welded magnesium alloy. <i>Materials &amp; Design</i> , <b>2011</b> , 32, 1-11		141
57	Numerical analysis of the dwell phase in friction stir welding and comparison with experimental data. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 4152-4160	5.3	26
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49	Optimization of Processing Parameters During Laser Cladding of ZE41A-T5 Magnesium Alloy Castings Using Taguchi Method. <i>Materials and Manufacturing Processes</i> , <b>2008</b> , 23, 413-418	4.1	37
48	Characterization of Electron Beam Welded 17-4 PH Stainless Steel. <i>Canadian Metallurgical Quarterly</i> , <b>2008</b> , 47, 413-435	0.9	5
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42	Investigation of $\beta$ -platelet boundaries in a near- $\beta$ -titanium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 492, 450-454	5-3	12
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4	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
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1	FEM Simulation of the Effect of Mold Initial Temperature on Carbon Macrosegregation in Large-Size Steel Ingots. <i>Materials Science Forum</i> , 1053, 258-263	0.4	