

Daolun Chen

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.

353
papers

11,555
citations

55
h-index

90
g-index

360
ext. papers

13,642
ext. citations

4.2
avg, IF

7
L-index

#	Paper	IF	Citations
353	Low cycle fatigue properties of friction stir welded dissimilar 2024-to-7075 aluminum alloy joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 832, 142423	5.3	2
352	An artful microstructure in nacre: Superior resistance to fatigue deformation. <i>International Journal of Fatigue</i> , 2022 , 157, 106705	5	1
351	Compressive deformation behaviour and toughening mechanisms of spark plasma sintered NiAl-CNT composites. <i>Ceramics International</i> , 2022 ,	5.1	1
350	Cyclic deformation behavior and fatigue life modeling of CNT-reinforced heterogeneous aluminum-based nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 840, 142881	5.3	0
349	Cyclic deformation behavior and fatigue life prediction of an automotive cast aluminum alloy: A new method of determining intrinsic fatigue toughness. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022 , 45, 725-738	3	3
348	Active Slip Mode Analysis of an Additively Manufactured Ti-6Al-4V Alloy via In-Grain Misorientation Axis Distribution. <i>Metals</i> , 2022 , 12, 532	2.3	0
347	Research advances of magnesium and magnesium alloys worldwide in 2021. <i>Journal of Magnesium and Alloys</i> , 2022 , 10, 863-898	8.8	18
346	Recrystallization mechanisms during high-temperature XRD and oxidation behavior of CNT-reinforced NiAl composites. <i>Corrosion Science</i> , 2022 , 204, 110384	6.8	0
345	Achieving high damping capacity and strength simultaneously in a high-zinc aluminum alloy via melt spinning and hot extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 833, 142376	5.3	1
344	Microstructural and mechanical aspects of laser metal deposited H13 powder for die repair. <i>Materials Today Communications</i> , 2021 , 29, 102945	2.5	0
343	Strategies for enhancing the room-temperature stretch formability of magnesium alloy sheets: a review. <i>Journal of Materials Science</i> , 2021 , 56, 12965	4.3	23
342	Research advances in magnesium and magnesium alloys worldwide in 2020. <i>Journal of Magnesium and Alloys</i> , 2021 , 9, 705-705	8.8	101
341	Tensile and cyclic deformation response of friction-stir-welded dissimilar aluminum alloy joints: Strain localization effect. <i>Journal of Materials Science and Technology</i> , 2021 , 73, 91-100	9.1	6
340	Deformation behavior and strengthening mechanisms in a CNT-reinforced bimodal-grained aluminum matrix nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 817, 141370	5.3	6
339	Stretch Formability of an AZ61 Alloy Plate Prepared by Multi-Pass Friction Stir Processing. <i>Materials</i> , 2021 , 14,	3.5	2
338	Oxidation mechanisms of an intermetallic alloy at high temperatures. <i>Scripta Materialia</i> , 2021 , 199, 113852	5.8	5
337	Heterogeneous microstructure and deformation behavior of an automotive grade aluminum alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 870, 159413	5.7	8

336	Effect of Ti on the wear behavior of AlCoCrFeNi high-entropy alloy during unidirectional and bi-directional sliding wear processes. <i>Wear</i> , 2021 , 476, 203650	3.5	7
335	Multiple Sub-variants and anisotropic mechanical properties of an additively-manufactured Ti-6Al-4V alloy. <i>Journal of Materials Science and Technology</i> , 2021 , 70, 113-124	9.1	12
334	Flow, process forces and strains during Friction Stir Welding: A comprehensive First principle approach. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2021 , 235, 912-924	2.4	2
333	Fiber laser welding of hot stamping steel: effect of in situ annealing on the microstructure and mechanical properties. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021 , 65, 57-65	1.9	
332	Influence of process parameters on the sintering behaviour and densification of NiAl intermetallics fabricated by spark plasma sintering. <i>Materials Today: Proceedings</i> , 2021 , 38, 1159-1163	1.4	2
331	Hierarchical Morphology and Formation Mechanism of Collision Surface of Al/Steel Dissimilar Lap Joints via Electromagnetic Pulse Welding. <i>Metals</i> , 2021 , 11, 1468	2.3	
330	Fracture toughness of Si3N4 ceramic composites: Effect of texture. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 6346-6355	6	2
329	Cyclic hardening behavior and deformation mechanisms of friction-stir-welded dissimilar AA5083-to-AA2024 joints with heterogeneous microstructures. <i>Materials Characterization</i> , 2021 , 181, 111465	3.9	1
328	Microstructure and mechanical properties of Mg-to-Al dissimilar welded joints with an Ag interlayer using ultrasonic spot welding. <i>Journal of Magnesium and Alloys</i> , 2020 , 8, 552-563	8.8	13
327	Latest research advances on magnesium and magnesium alloys worldwide. <i>Journal of Magnesium and Alloys</i> , 2020 , 8, 1-41	8.8	359
326	Natural arrangement of fiber-like aragonites and its impact on mechanical behavior of mollusk shells: A review. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 110, 103940	4.1	10
325	Electromagnetic pulse welding of Al/Cu dissimilar materials: Microstructure and tensile properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 792, 139842	5.3	10
324	Silicon nitride composites with magnesia and alumina additives: Toughening mechanisms and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 779, 139140	5.3	8
323	Microstructure and low cycle fatigue of a Ti2AlNb-based lightweight alloy. <i>Journal of Materials Science and Technology</i> , 2020 , 44, 140-147	9.1	11
322	Microstructure and cyclic deformation behavior of a 3D-printed Ti6Al4V alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 825, 153971	5.7	10
321	Reducing Yield Asymmetry between Tension and Compression by Fabricating ZK60/WE43 Bimetal Composites. <i>Materials</i> , 2020 , 13,	3.5	3
320	Silicon Nitride Whisker-Reinforced Aluminum Matrix Composites: Twinning and Precipitation Behavior. <i>Metals</i> , 2020 , 10, 420	2.3	4
319	Tensile Behavior of a Titanium Alloy Additively Manufactured via Selective Electron Beam Melting. <i>Structural Integrity</i> , 2020 , 14-19	0.2	

318	Microstructural evolution and enhanced mechanical properties of Mg ₉₇ Ca ₂ Zn ₁ alloy via centrifugal casting, ring-rolling and aging. <i>Journal of Magnesium and Alloys</i> , 2020 ,	8.8	6
317	Kinking and cracking behavior in nacre under stepwise compressive loading. <i>Materials Science and Engineering C</i> , 2020 , 108, 110364	8.3	11
316	Carbon Nanotube-Reinforced Aluminum Matrix Composites. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901176	3.5	22
315	Effects of Mo and B Additives on Hardness and the Resistance of Cu ₉₀ Ni ₁₀ Alloy to Wear, Corrosion and Corrosive Wear. <i>Metals and Materials International</i> , 2020 , 1	2.4	1
314	Ultrasonic spot welding of a clad 7075 aluminum alloy: Strength and fatigue life. <i>International Journal of Fatigue</i> , 2020 , 141, 105869	5	6
313	Enhancing mechanical properties of AZ61 magnesium alloy via friction stir processing: Effect of processing parameters. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 797, 139945	5.3	21
312	Fabrication of Magnesium ₉₀ Ni ₁₀ Tip Composites via Friction Stir Processing: Effect of Tool Profile. <i>Metals</i> , 2020 , 10, 1425	2.3	3
311	Cyclic Deformation Behavior of A Heat-Treated Die-Cast Al-Mg-Si-Based Aluminum Alloy. <i>Materials</i> , 2020 , 13,	3.5	2
310	Static recrystallization of pure titanium after cryo-deformation. <i>Journal of Physics: Conference Series</i> , 2019 , 1270, 012040	0.3	
309	High-temperature tensile behavior of AZ61 magnesium plate prepared by multi-pass friction stir processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 759, 234-240	5.3	7
308	Fatigue and Deformation of Light Magnesium Alloys. <i>Structural Integrity</i> , 2019 , 126-132	0.2	
307	Nonlinearity of Material Loss Versus the Wearing Force. <i>Jom</i> , 2019 , 71, 4274-4283	2.1	
306	Low-cycle fatigue behavior of a newly developed cast aluminum alloy for automotive applications. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019 , 42, 1912-1926	3	7
305	In Situ AFM Analysis of Surface Electron Behaviors of Strain-Free and Deformed Ferrite and Austenite in Duplex Steel and Their Correlation with Electron Work Function. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800933	1.6	1
304	Ultrasonic spot welding of 5182 aluminum alloy: Evolution of microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 756, 417-429	5.3	13
303	Cyclic deformation behavior of a high zinc-containing cast magnesium alloy. <i>International Journal of Fatigue</i> , 2019 , 125, 1-10	5	7
302	Multi-pass submerged friction stir processing of AZ61 magnesium alloy: strengthening mechanisms and fracture behavior. <i>Journal of Materials Science</i> , 2019 , 54, 8640-8654	4.3	18
301	Effect of Auto-Tuning on Serrated Flow Behavior. <i>Metals</i> , 2019 , 9, 845	2.3	1

300	High-temperature oxidation mechanisms of nano-/submicro-scale lamellar structures in an intermetallic alloy. <i>Scripta Materialia</i> , 2019 , 171, 102-107	5.6	7
299	Microstructure and mechanical properties of Mg/Mg bimetals fabricated by hot-pressing diffusion and co-extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 764, 138194	5.3	9
298	Fracture Characteristics and Analysis in Dissimilar Cu-Al Alloy Joints Formed via Electromagnetic Pulse Welding. <i>Materials</i> , 2019 , 12,	3.5	9
297	Exfoliation corrosion of friction stir welded dissimilar 2024-to-7075 aluminum alloys. <i>Materials Characterization</i> , 2019 , 147, 93-100	3.9	41
296	Ultrasonic spot welding of magnesium-to-aluminum alloys with a copper interlayer: Microstructural evolution and tensile properties. <i>Journal of Manufacturing Processes</i> , 2019 , 37, 91-100	5	18
295	Cyclic deformation behavior of friction-stir-welded dissimilar AA5083-to-AA2024 joints: Effect of microstructure and loading history. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 744, 145-153	5.3	17
294	Crack initiation and growth in a special quasi-sandwich crossed-lamellar structure in <i>Cymbiola nobilis</i> seashell. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 90, 104-112	4.1	4
293	Tensile properties of AZ61 magnesium alloy produced by multi-pass friction stir processing: Effect of sample orientation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 725, 398-405	5.3	46
292	Microstructural evolution and high-temperature oxidation mechanisms of a titanium aluminide based alloy. <i>Acta Materialia</i> , 2018 , 148, 300-310	8.4	64
291	Modeling dynamic recrystallization during hot deformation of a cast-homogenized Mg-Zn-Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 720, 180-188	5.3	26
290	Linear Friction Welding of Dissimilar Materials 316L Stainless Steel to Zircaloy-4. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 1641-1652	2.3	9
289	Strengthening mechanisms in magnesium alloys containing ternary I, W and LPSO phases. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 1110-1118	9.1	57
288	Twin-twin interactions and contraction twin formation in an extruded magnesium alloy subjected to an alteration of compressive direction. <i>Journal of Alloys and Compounds</i> , 2018 , 737, 549-560	5.7	34
287	Bimodal grain microstructure development during hot compression of a cast-homogenized Mg-Zn-Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 724, 421-430	5.3	19
286	Recent Advances in Friction Stir Welding/Processing of Aluminum Alloys: Microstructural Evolution and Mechanical Properties. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2018 , 43, 269-333	10.1	135
285	Strain hardening behavior and mechanisms of friction stir welded dissimilar joints of aluminum alloys. <i>Materials Letters</i> , 2018 , 231, 68-71	3.3	20
284	Microstructure and Mechanical Properties of Ultrasonic Spot Welded Mg/Al Alloy Dissimilar Joints. <i>Metals</i> , 2018 , 8, 229	2.3	15
283	Deformation and fracture behavior of a natural shell ceramic: Coupled effects of shell shape and microstructure. <i>Materials Science and Engineering C</i> , 2018 , 90, 557-567	8.3	4

282	Tribological properties of AZ31 alloy pre-deformed at low and high strain rates via the work function. <i>Wear</i> , 2018 , 414-415, 126-135	3.5	7
281	Liquid metal embrittlement in laser beam welding of Zn-coated 22MnB5 steel. <i>Materials and Design</i> , 2018 , 155, 375-383	8.1	43
280	A new grain orientation spread approach to analyze the dynamic recrystallization behavior of a cast-homogenized Mg-Zn-Zr alloy using electron backscattered diffraction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 709, 285-289	5.3	73
279	A self-assembled smart architecture against drilling predation in a Pinctada maxima shell: protective mechanisms. <i>Journal of Materials Science</i> , 2018 , 53, 3417-3426	4.3	8
278	Effect of Transition Metals on Thermal Stability of Al-Si Cast Alloys 2018 , 287-296		1
277	Ultrasonic Spot Welding of an Aluminum Alloy for Automotive Applications. <i>Materials Science Forum</i> , 2018 , 941, 735-740	0.4	1
276	Ultrasonic spot welding of dissimilar 2024Al alloy and SiCp/2009Al composite. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2018 , 146442071880913	1.3	3
275	Thermodynamic and microstructural study of TiAlNb oxides at 800 °C. <i>Scientific Reports</i> , 2018 , 8, 12761	4.9	10
274	Liquid metal embrittlement in laser lap joining of TWIP and medium-manganese TRIP steel: The role of stress and grain boundaries. <i>Materials Characterization</i> , 2018 , 145, 627-633	3.9	31
273	Dynamic recrystallization of titanium: Effect of pre-activated twinning at cryogenic temperature. <i>Acta Materialia</i> , 2018 , 154, 311-324	8.4	58
272	Tensile and Fatigue Properties of Single and Multiple Dissimilar Welded Joints of DP980 and HSLA. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 783-791	1.6	8
271	Interaction between nano-precipitates and dislocations during high temperature deformation of Al-Si alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 712, 219-224	5.7	4
270	Microstructure, tensile and fatigue properties of ultrasonic spot welded aluminum to galvanized high-strength-low-alloy and low-carbon steel sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 690, 323-336	5.3	20
269	Single and double twin nucleation, growth, and interaction in an extruded magnesium alloy. <i>Materials and Design</i> , 2017 , 119, 376-396	8.1	32
268	Hot deformation behavior of Ti-6Al-4V alloy: Effect of initial microstructure. <i>Journal of Alloys and Compounds</i> , 2017 , 718, 170-181	5.7	86
267	Microstructural evolution and mechanical properties of electron beam welded dissimilar titanium alloy joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 697, 224-232	5.3	12
266	Hot deformation and activation energy of a CNT-reinforced aluminum matrix nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 695, 322-331	5.3	32
265	Mechanical properties of crossed-lamellar structures in biological shells: A review. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 74, 54-71	4.1	53

264	Cymbiola nobilis shell: Toughening mechanisms in a crossed-lamellar structure. <i>Scientific Reports</i> , 2017 , 7, 40043	4.9	20
263	Ageing characteristics and high-temperature tensile properties of AlSiCuMg alloys with micro-additions of Mo and Mn. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 684, 726-736	5.3	36
262	Three-dimensional processing maps and microstructural evolution of a CNT-reinforced Al-Cu-Mg nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 702, 425-437	5.3	18
261	Core-multishell globular oxidation in a new TiAlNbCr alloy at high temperatures. <i>Scientific Reports</i> , 2017 , 7, 3483	4.9	11
260	Ultrasonic spot welded 6111-T4 aluminum alloy to galvanized high-strength low-alloy steel: Microstructure and mechanical properties. <i>Materials and Design</i> , 2017 , 113, 284-296	8.1	47
259	Microstructure and fatigue properties of linear friction welded TC4 titanium alloy joints. <i>Science and Technology of Welding and Joining</i> , 2017 , 22, 177-181	3.7	8
258	Crystallographic texture of crossed-lamellar structure in Cymbiola nobilis shell. <i>Journal of the Ceramic Society of Japan</i> , 2017 , 125, 419-422	1	2
257	Microstructure and Mechanical Properties of an Ultrasonic Spot Welded Aluminum Alloy: The Effect of Welding Energy. <i>Materials</i> , 2017 , 10,	3.5	19
256	A Critical Review of MgZn Series Alloys Containing I, W, and LPSO Phases. <i>Advanced Engineering Materials</i> , 2016 , 18, 1983-2002	3.5	40
255	Texture evolution and deformation activity of an extruded magnesium alloy: Effect of yttrium and deformation temperature. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 270-284	5.7	15
254	Effect of Cr, Ti, V, and Zr Micro-additions on Microstructure and Mechanical Properties of the Al-Si-Cu-Mg Cast Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 2396-2409	2.3	22
253	Ageing characteristics and high-temperature tensile properties of AlSiCuMg alloys with micro-additions of Cr, Ti, V and Zr. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 652, 353-364	5.3	55
252	Microstructure and Fatigue Properties of Ultrasonic Spot Welded Joints of Aluminum 5754 Alloy. <i>Jom</i> , 2016 , 68, 1465-1475	2.1	13
251	Effect of coating on fiber laser welded joints of DP980 steels. <i>Materials and Design</i> , 2016 , 90, 516-523	8.1	11
250	Strain-controlled low cycle fatigue properties of a rare-earth containing ME20 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 661, 115-125	5.3	18
249	Deformation and strengthening mechanisms of a carbon nanotube reinforced aluminum composite. <i>Carbon</i> , 2016 , 104, 64-77	10.4	117
248	Ultrasonic Spot Welding of a Rare-Earth Containing ZEK100 Magnesium Alloy: Effect of Welding Energy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 1686-1697	2.3	17
247	Effect of transition metals on energy absorption during strain-controlled fatigue of an aluminum alloy. <i>International Journal of Fatigue</i> , 2016 , 87, 456-470	5	16

246	Microstructure and Texture Evolution in a Yttrium-Containing ZM31 Alloy: Effect of Pre- and Post-deformation Annealing. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 3318-3325	2.5	3
245	SiC and ZrN nano-particulate reinforced ALON composites: Preparation, mechanical properties and toughening mechanisms. <i>Ceramics International</i> , 2016 , 42, 6072-6079	5.1	8
244	Tensile and fatigue behavior of electron beam welded dissimilar joints of Ti6Al4V and IMI834 titanium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 649, 146-152	5.3	29
243	Similar and Dissimilar Ultrasonic Spot Welding of a Rare-Earth Containing ZEK100 Magnesium Alloy 2016 , 109-113		1
242	Hot Deformation and Processing Map in an Mg-Zn-Mn-Y Alloy 2016 , 183-186		
241	Hot Deformation and Processing Map in an Mg-Zn-Mn-Y Alloy 2016 , 183-186		
240	The role of minor yttrium in tailoring the failure resistance of surface oxide film formed on Mg alloys. <i>Thin Solid Films</i> , 2016 , 615, 29-37	2.2	7
239	Aging characteristics of the Al-Si-Cu-Mg cast alloy modified with transition metals Zr, V and Ti. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 117, 012031	0.4	4
238	Effect of Mn and heat treatment on improvements in static strength and low-cycle fatigue life of an AlSiCuMg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 657, 441-452	5.3	41
237	Ultrasonic spot welding of rare-earth containing ZEK100 magnesium alloy to 5754 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 666, 139-148	5.3	32
236	Effect of welding energy on microstructure and strength of ultrasonic spot welded dissimilar joints of aluminum to steel sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 668, 73-85	5.3	42
235	De-twinning and Texture Change in an Extruded AM30 Magnesium Alloy during Compression along Normal Direction. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 264-268	9.1	41
234	Interfacial Characterization of Dissimilar Joints Between Al/Mg/Al-Trilayered Clad Sheet to High-Strength Low-Alloy Steel. <i>Jom</i> , 2015 , 67, 1468-1477	2.1	19
233	Characterization of hot deformation behavior of an extruded MgZnMnY alloy containing LPSO phase. <i>Journal of Alloys and Compounds</i> , 2015 , 644, 814-823	5.7	53
232	Cyclic deformation and anelastic behavior of ZEK100 magnesium alloy: Effect of strain ratio. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 640, 243-258	5.3	11
231	Microstructure and mechanical properties of ultrasonic spot welded copper-to-magnesium alloy joints. <i>Materials and Design</i> , 2015 , 84, 261-269	8.1	59
230	Influence of Test Temperature on the Tensile Properties along the Thickness in a Friction Stir Welded Aluminum Alloy. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 953-961	9.1	23
229	Microstructure and mechanical properties of AlSi cast alloy with additions of Zr and Ti. <i>Materials and Design</i> , 2015 , 83, 801-812	8.1	31

228	Improving High-Temperature Tensile and Low-Cycle Fatigue Behavior of Al-Si-Cu-Mg Alloys Through Micro-additions of Ti, V, and Zr. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 3063-3078	2.3	49
227	Residual Stresses and Tensile Properties of Friction Stir Welded AZ31B-H24 Magnesium Alloy in Lap Configuration. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015 , 46, 1626-1637	2.5	6
226	Correlating Hardness Retention and Phase Transformations of Al and Mg Cast Alloys for Aerospace Applications. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 1365-1378	1.6	17
225	Microstructure and mechanical properties of ultrasonic spot welded Al/Ti alloy joints. <i>Materials & Design</i> , 2015 , 78, 33-41		40
224	Effect of solidification rate and loading mode on deformation behavior of cast AlSiCuMg alloy with additions of transition metals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 636, 361-372	5.3	23
223	Dislocation slip distance during compression of AlSiCuMg alloy with additions of TiZrV. <i>Materials Science and Technology</i> , 2015 , 31, 63-72	1.5	17
222	Hot deformation and processing map of an as-extruded MgZnMn alloy containing I and W phases. <i>Materials and Design</i> , 2015 , 87, 245-255	8.1	57
221	Strain-controlled low cycle fatigue properties of a rare-earth containing ZEK100 magnesium alloy. <i>Materials & Design</i> , 2015 , 67, 436-447		36
220	Low cycle fatigue of SiCp reinforced AA2009 composites. <i>Materials & Design</i> , 2015 , 66, 274-283		17
219	Microstructure, hardness, and fracture toughness of suspension plasma sprayed yttria-stabilized zirconia electrolytes on stainless steel substrates. <i>Thin Solid Films</i> , 2015 , 584, 23-28	2.2	11
218	Influence of aluminum content on twinning and texture development of cast MgAlZn alloy during compression. <i>Journal of Alloys and Compounds</i> , 2015 , 623, 15-23	5.7	33
217	Monotonic and cyclic deformation behavior of the AlSiCuMg cast alloy with micro-additions of Ti, V and Zr. <i>International Journal of Fatigue</i> , 2015 , 70, 383-394	5	42
216	Solid-state ultrasonic spot welding of SiCp/2009Al composite sheets. <i>Materials & Design</i> , 2015 , 65, 489-495		16
215	A Unified Model for the Prediction of Yield Strength in Particulate-Reinforced Metal Matrix Nanocomposites. <i>Materials</i> , 2015 , 8, 5138-5153	3.5	72
214	Effect of Strain Level on the Behavior of Intermetallics and Texture of Al-Si-Cu-Mg Alloy Modified with Transition Metals. <i>SAE International Journal of Materials and Manufacturing</i> , 2015 , 8, 731-735	1	1
213	Texture evolution of AZ31 magnesium alloy sheets during warm rolling. <i>Journal of Alloys and Compounds</i> , 2015 , 645, 70-77	5.7	38
212	Hot Deformation and Work Hardening Behavior of an Extruded MgZnMn Alloy. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 1161-1170	9.1	33
211	Analysis of Microstructural Changes in the Heat-Affected Zone and Fusion Zone of a Fiber Laser Welded DP980 Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015 , 46, 1638-1646	2.5	4

210	Cyclic Deformation Behavior of a Rare-Earth Containing Extruded Magnesium Alloy: Effect of Heat Treatment. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 1168-1187	2.3	26
209	Low Cycle Fatigue of Aluminum-Silicon Alloys for Power-Train Applications 2015 , 999-1006		
208	Tensile and compressive deformation behavior of the AlSiCuMg cast alloy with additions of Zr, V and Ti. <i>Materials & Design</i> , 2014 , 59, 352-358		45
207	Characterization of ultrasonic spot welded joints of Mg-to-galvanized and ungalvanized steel with a tin interlayer. <i>Journal of Materials Processing Technology</i> , 2014 , 214, 811-817	5.3	30
206	Effect of strain rate and temperature on strain hardening behavior of a dissimilar joint between Ti6Al4V and Ti17 alloys. <i>Materials & Design</i> , 2014 , 56, 174-184		32
205	Tensile properties of fiber laser welded joints of high strength low alloy and dual-phase steels at warm and low temperatures. <i>Materials & Design</i> , 2014 , 56, 193-199		26
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