# Daolun Chen

## List of Publications by Citations



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| 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 | Consideration of Orowan strengthening effect in particulate-reinforced metal matrix nanocomposites: A model for predicting their yield strength. *Scripta Materialia*, **2006**, 54, 1321-1326 | 5.6 | 842 |
| 352 | Contribution of Orowan strengthening effect in particulate-reinforced metal matrix nanocomposites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 483-484, 148-152 | 5.3 | 473 |
| 351 | Latest research advances on magnesium and magnesium alloys worldwide. *Journal of Magnesium and Alloys*, **2020**, 8, 1-41 | 8.8 | 359 |
| 350 | Strain hardening behavior of a friction stir welded magnesium alloy. *Scripta Materialia*, **2007**, 57, 1004-1007 | 5.6 | 291 |
| 349 | Microstructure and tensile properties of friction stir welded AZ31B magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 472, 179-186 | 5.3 | 268 |
| 348 | Low cycle fatigue properties of an extruded AZ31 magnesium alloy. *International Journal of Fatigue*, **2009**, 31, 726-735 | 5 | 205 |
| 347 | Strain controlled cyclic deformation behavior of an extruded magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 496, 106-113 | 5.3 | 148 |
| 346 | Microstructure and fracture characteristics of spot-welded DP600 steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 485, 334-346 | 5.3 | 145 |
| 345 | Microstructure and mechanical properties of laser welded dissimilar DP600/DP980 dual-phase steel joints. *Journal of Alloys and Compounds*, **2011**, 509, 982-989 | 5.7 | 136 |
| 344 | Recent Advances in Friction Stir Welding/Processing of Aluminum Alloys: Microstructural Evolution and Mechanical Properties. *Critical Reviews in Solid State and Materials Sciences*, **2018**, 43, 269-333 | 10.1 | 135 |
| 343 | Effect of strain ratio and strain rate on low cycle fatigue behavior of AZ31 wrought magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 517, 334-343 | 5.3 | 130 |
| 342 | Microstructure and mechanical properties of laser welded DP600 steel joints. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 1215-1222 | 5.3 | 129 |
| 341 | Strain-Controlled Low-Cycle Fatigue Properties of a Newly Developed Extruded Magnesium Alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2008**, 39, 3014-3026 | 2.3 | 124 |
| 340 | Deformation and strengthening mechanisms of a carbon nanotube reinforced aluminum composite. *Carbon*, **2016**, 104, 64-77 | 10.4 | 117 |
| 339 | Tensile properties of a friction stir welded magnesium alloy: Effect of pin tool thread orientation and weld pitch. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 6064-6075 | 5.3 | 113 |
| 338 | Tensile and fatigue properties of fiber laser welded high strength low alloy and DP980 dual-phase steel joints. *Materials & Design*, **2013**, 43, 373-383 | | 102 |
| 337 | Detwinning and strain hardening of an extruded magnesium alloy during compression. *Scripta Materialia*, **2012**, 67, 165-168 | 5.6 | 101 |

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| 336 | Research advances in magnesium and magnesium alloys worldwide in 2020. *Journal of Magnesium and Alloys*, **2021**, 9, 705-705 | 8.8 | 101 |
| 335 | Tensile and fatigue properties of a cast aluminum alloy with Ti, Zr and V additions. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 8128-8138 | 5.3 | 96 |
| 334 | Tensile properties and strain-hardening behavior of double-sided arc welded and friction stir welded AZ31B magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 2951-2961 | 5.3 | 88 |
| 333 | Shearing of γ′ precipitates and formation of planar slip bands in Inconel 718 during cyclic deformation. *Scripta Materialia*, **2005**, 52, 603-607 | 5.6 | 87 |
| 332 | Hot deformation behavior of Ti-6Al-4V alloy: Effect of initial microstructure. *Journal of Alloys and Compounds*, **2017**, 718, 170-181 | 5.7 | 86 |
| 331 | Effect of heat treatment on mechanical properties of Ti–6Al–4V ELI alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 506, 117-124 | 5.3 | 86 |
| 330 | Influence of ultrasonic spot welding on microstructure in a magnesium alloy. *Scripta Materialia*, **2011**, 65, 911-914 | 5.6 | 85 |
| 329 | Polishing-assisted galvanic corrosion in the dissimilar friction stir welded joint of AZ31 magnesium alloy to 2024 aluminum alloy. *Materials Characterization*, **2009**, 60, 370-376 | 3.9 | 85 |
| 328 | Lap shear strength and fatigue behavior of friction stir spot welded dissimilar magnesium-to-aluminum joints with adhesive. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 562, 53-60 | 5.3 | 81 |
| 327 | Effect of zinc interlayer on ultrasonic spot welded aluminum-to-copper joints. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 607, 277-286 | 5.3 | 80 |
| 326 | Lap shear strength and fatigue life of friction stir spot welded AZ31 magnesium and 5754 aluminum alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 556, 500-509 | 5.3 | 80 |
| 325 | Microstructure and Cyclic Deformation Behavior of a Friction-Stir-Welded 7075 Al Alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2010**, 41, 957-971 | 2.3 | 79 |
| 324 | Improvements of strength and ductility in aluminum alloy joints via rapid cooling during friction stir welding. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 548, 89-98 | 5.3 | 78 |
| 323 | A model for predicting the particle size dependence of the low cycle fatigue life in discontinuously reinforced MMCs. *Scripta Materialia*, **2004**, 51, 863-867 | 5.6 | 78 |
| 322 | Effect of annealing on interface microstructures and tensile properties of rolled Al/Mg/Al tri-layer clad sheets. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 587, 344-351 | 5.3 | 75 |
| 321 | Strain Hardening and Strain-Rate Sensitivity of an Extruded Magnesium Alloy. *Journal of Materials Engineering and Performance*, **2008**, 17, 894-901 | 1.6 | 75 |
| 320 | Microstructure and fatigue performance of single and multiple linear fiber laser welded DP980 dual-phase steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 553, 51-58 | 5.3 | 74 |
| 319 | Low cycle fatigue of a rare-earth containing extruded magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 575, 65-73 | 5.3 | 74 |

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| 318 | Microstructure and mechanical properties of dissimilar welded MgⒶAl joints by ultrasonic spot welding technique. *Science and Technology of Welding and Joining*, **2012**, 17, 202-206 | 3.7 | 74 |
| 317 | A new grain orientation spread approach to analyze the dynamic recrystallization behavior of a cast-homogenized Mg-Zn-Zr alloy using electron backscattered diffraction. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 709, 285-289 | 5.3 | 73 |
| 316 | A Unified Model for the Prediction of Yield Strength in Particulate-Reinforced Metal Matrix Nanocomposites. *Materials*, **2015**, 8, 5138-5153 | 3.5 | 72 |
| 315 | Effect of rare earth elements on deformation behavior of an extruded Mg□10GdⒷY□.5Zr alloy during compression. *Materials & Design*, **2013**, 46, 411-418 | | 65 |
| 314 | Microstructure and Low-Cycle Fatigue of a Friction-Stir-Welded 6061 Aluminum Alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2010**, 41, 2626-2641 | 2.3 | 65 |
| 313 | Relationship between fractal dimension and fatigue threshold value in dual-phase steels. *Scripta Metallurgica*, **1988**, 22, 827-832 | | 65 |
| 312 | Microstructural evolution and high-temperature oxidation mechanisms of a titanium aluminide based alloy. *Acta Materialia*, **2018**, 148, 300-310 | 8.4 | 64 |
| 311 | Microstructure and fatigue properties of fiber laser welded dissimilar joints between high strength low alloy and dual-phase steels. *Materials & Design*, **2013**, 51, 665-675 | | 64 |
| 310 | Friction Stir Welded AZ31 Magnesium Alloy: Microstructure, Texture, and Tensile Properties. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 323-336 | 2.3 | 63 |
| 309 | Microstructure and tensile properties of thixomolded magnesium alloys. *Journal of Alloys and Compounds*, **2010**, 496, 140-148 | 5.7 | 63 |
| 308 | Dependence of the distribution of deformation twins on strain amplitudes in an extruded magnesium alloy after cyclic deformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 519, 38-45 | 5.3 | 62 |
| 307 | Microstructure and mechanical properties of ultrasonic spot welded copper-to-magnesium alloy joints. *Materials and Design*, **2015**, 84, 261-269 | 8.1 | 59 |
| 306 | Improving weld strength of magnesium to aluminium dissimilar joints via tin interlayer during ultrasonic spot welding. *Science and Technology of Welding and Joining*, **2012**, 17, 342-347 | 3.7 | 59 |
| 305 | Microstructure and mechanical properties of weld-bonded and resistance spot welded magnesium-to-steel dissimilar joints. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 537, 11-24 | 5.3 | 58 |
| 304 | Fatigue behavior of tailor (laser)-welded blanks for automotive applications. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 420, 199-207 | 5.3 | 58 |
| 303 | Dynamic recrystallization of titanium: Effect of pre-activated twinning at cryogenic temperature. *Acta Materialia*, **2018**, 154, 311-324 | 8.4 | 58 |
| 302 | Hot deformation and processing map of an as-extruded Mg⒵nⓂnⓎ alloy containing I and W phases. *Materials and Design*, **2015**, 87, 245-255 | 8.1 | 57 |
| 301 | Strengthening mechanisms in magnesium alloys containing ternary I, W and LPSO phases. *Journal of Materials Science and Technology*, **2018**, 34, 1110-1118 | 9.1 | 57 |

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| 300 | Effect of boron on fatigue crack growth behavior in superalloy IN 718 at RT and 650 °C. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 428, 1-11 | 5.3 | 56 |
| 299 | Ageing characteristics and high-temperature tensile properties of Al–Si–Cu–Mg alloys with micro-additions of Cr, Ti, V and Zr. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 652, 353-364 | 5.3 | 55 |
| 298 | Microstructure and Mechanical Properties of Fiber-Laser-Welded and Diode-Laser-Welded AZ31 Magnesium Alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2011**, 42, 1974-1989 | 2.3 | 55 |
| 297 | Cyclic deformation behavior of a cast aluminum alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 516, 31-41 | 5.3 | 54 |
| 296 | Toughening mechanisms in iron-containing hydroxyapatite/titanium composites. *Biomaterials*, **2010**, 31, 1493-501 | 15.6 | 54 |
| 295 | Mechanical properties of crossed-lamellar structures in biological shells: A review. *Journal of the Mechanical Behavior of Biomedical Materials*, **2017**, 74, 54-71 | 4.1 | 53 |
| 294 | Characterization of hot deformation behavior of an extruded Mg–Zn–Mn–Y alloy containing LPSO phase. *Journal of Alloys and Compounds*, **2015**, 644, 814-823 | 5.7 | 53 |
| 293 | Effects of aluminum content and strain rate on strain hardening behavior of cast magnesium alloys during compression. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 594, 235-245 | 5.3 | 53 |
| 292 | Tensile Properties and Work Hardening Behavior of Laser-Welded Dual-Phase Steel Joints. *Journal of Materials Engineering and Performance*, **2012**, 21, 222-230 | 1.6 | 53 |
| 291 | Influence of microstructural evolution on tensile properties of friction stir welded joint of rolled SiCp/AA2009-T351 sheet. *Materials & Design*, **2013**, 51, 199-205 | | 52 |
| 290 | Ultrasonic Spot Welding of Aluminum to High-Strength Low-Alloy Steel: Microstructure, Tensile and Fatigue Properties. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2014**, 45, 2055-2066 | 2.3 | 51 |
| 289 | Cyclic deformation and twinning in a semi-solid processed AZ91D magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 528, 208-219 | 5.3 | 51 |
| 288 | Dependence of compressive deformation on pre-strain and loading direction in an extruded magnesium alloy: Texture, twinning and de-twinning. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 596, 134-144 | 5.3 | 50 |
| 287 | Ultrasonic spot welding of Al/Mg/Al tri-layered clad sheets. *Materials & Design*, **2014**, 62, 344-351 | | 50 |
| 286 | Formation of zinc interlayer texture during dissimilar ultrasonic spot welding of magnesium and high strength low alloy steel. *Materials & Design*, **2013**, 45, 236-240 | | 50 |
| 285 | Ultrasonic spot welded AZ31 magnesium alloy: Microstructure, texture, and lap shear strength. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 569, 78-85 | 5.3 | 50 |
| 284 | Improving High-Temperature Tensile and Low-Cycle Fatigue Behavior of Al-Si-Cu-Mg Alloys Through Micro-additions of Ti, V, and Zr. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2015**, 46, 3063-3078 | 2.3 | 49 |
| 283 | Tensile and fatigue properties of electron beam welded dissimilar joints between Ti–6Al–4V and BT9 titanium alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 584, 47-56 | 5.3 | 49 |

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| 282 | Welding behaviour, microstructure and mechanical properties of dissimilar resistance spot welds between galvannealed HSLA350 and DP600 steels. *Science and Technology of Welding and Joining*, **2009**, 14, 616-625 | 3.7 | 49 |
| 281 | Microstructure and fatigue properties of Mg-to-steel dissimilar resistance spot welds. *Materials & Design*, **2013**, 45, 336-342 | | 48 |
| 280 | Cyclic deformation behavior of a super-vacuum die cast magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 546, 72-81 | 5.3 | 47 |
| 279 | Ultrasonic spot welded 6111-T4 aluminum alloy to galvanized high-strength low-alloy steel: Microstructure and mechanical properties. *Materials and Design*, **2017**, 113, 284-296 | 8.1 | 47 |
| 278 | Expulsion monitoring in spot welded advanced high strength automotive steels. *Science and Technology of Welding and Joining*, **2006**, 11, 480-487 | 3.7 | 47 |
| 277 | Tensile properties of AZ61 magnesium alloy produced by multi-pass friction stir processing: Effect of sample orientation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 725, 398-405 | 5.3 | 46 |
| 276 | Effect of Zr, V and Ti on hot compression behavior of the Al–Si cast alloy for powertrain applications. *Journal of Alloys and Compounds*, **2014**, 615, 1019-1031 | 5.7 | 46 |
| 275 | Residual stresses and high cycle fatigue properties of friction stir welded SiCp/AA2009 composites. *International Journal of Fatigue*, **2013**, 55, 64-73 | 5 | 46 |
| 274 | Tensile and compressive deformation behavior of the Al–Si–Cu–Mg cast alloy with additions of Zr, V and Ti. *Materials & Design*, **2014**, 59, 352-358 | | 45 |
| 273 | Tensile properties and strain-hardening behaviour of friction stir welded SiCp/AA2009 composite joints. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 608, 1-10 | 5.3 | 45 |
| 272 | Strain-controlled fatigue properties of dissimilar welded joints between Ti–6Al–4V and Ti17 alloys. *Materials & Design*, **2013**, 49, 716-727 | | 45 |
| 271 | Liquid metal embrittlement in laser beam welding of Zn-coated 22MnB5 steel. *Materials and Design* , **2018**, 155, 375-383 | 8.1 | 43 |
| 270 | Monotonic and cyclic deformation behavior of the Al–Si–Cu–Mg cast alloy with micro-additions of Ti, V and Zr. *International Journal of Fatigue*, **2015**, 70, 383-394 | 5 | 42 |
| 269 | Texture transformation in an extruded magnesium alloy under pressure. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 582, 63-67 | 5.3 | 42 |
| 268 | Effect of welding energy on microstructure and strength of ultrasonic spot welded dissimilar joints of aluminum to steel sheets. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 668, 73-85 | 5.3 | 42 |
| 267 | De-twinning and Texture Change in an Extruded AM30 Magnesium Alloy during Compression along Normal Direction. *Journal of Materials Science and Technology*, **2015**, 31, 264-268 | 9.1 | 41 |
| 266 | Thermal stability of (Al–Si) (Zr–V–Ti) intermetallic phases in the Al–Si–Cu–Mg cast alloy with additions of Ti, V, and Zr. *Thermochimica Acta*, **2014**, 595, 11-16 | 2.9 | 41 |
| 265 | Contribution of the cyclic loading portion below the opening load to fatigue crack growth. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **1996**, 208, 181-187 | 5.3 | 41 |

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| 264 | Effect of Mn and heat treatment on improvements in static strength and low-cycle fatigue life of an AlSiCuMg alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 657, 441-452 | 5.3 | 41 |
| 263 | Exfoliation corrosion of friction stir welded dissimilar 2024-to-7075 aluminum alloys. *Materials Characterization*, **2019**, 147, 93-100 | 3.9 | 41 |
| 262 | Microstructure and mechanical properties of ultrasonic spot welded Al/Ti alloy joints. *Materials & Design*, **2015**, 78, 33-41 | | 40 |
| 261 | A Critical Review of MgZnY Series Alloys Containing I, W, and LPSO Phases . *Advanced Engineering Materials*, **2016**, 18, 1983-2002 | 3.5 | 40 |
| 260 | Cyclic deformation mechanisms of precipitation-hardened Inconel 718 superalloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 483-484, 369-372 | 5.3 | 40 |
| 259 | Texture evolution of AZ31 magnesium alloy sheets during warm rolling. *Journal of Alloys and Compounds*, **2015**, 645, 70-77 | 5.7 | 38 |
| 258 | Work hardening and texture during compression deformation of the AlSiCuMg alloy modified with V, Zr and Ti. *Journal of Alloys and Compounds*, **2014**, 593, 290-299 | 5.7 | 38 |
| 257 | Fatigue properties of laser welded dual-phase steel joints. *Procedia Engineering*, **2010**, 2, 835-843 | | 38 |
| 256 | Twin Growth and Texture Evolution in an Extruded AM30 Magnesium Alloy During Compression. *Journal of Materials Science and Technology*, **2014**, 30, 884-887 | 9.1 | 37 |
| 255 | Low cycle fatigue behavior of a semi-solid processed AM60B magnesium alloy. *Materials & Design*, **2013**, 49, 456-464 | | 37 |
| 254 | Influence of yttrium content on phase formation and strain hardening behavior of MgZnMn magnesium alloy. *Journal of Alloys and Compounds*, **2014**, 615, 424-432 | 5.7 | 37 |
| 253 | Ageing characteristics and high-temperature tensile properties of AlSiCuMg alloys with micro-additions of Mo and Mn. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 684, 726-736 | 5.3 | 36 |
| 252 | Strain-controlled low cycle fatigue properties of a rare-earth containing ZEK100 magnesium alloy. *Materials & Design*, **2015**, 67, 436-447 | | 36 |
| 251 | Twin-twin interactions and contraction twin formation in an extruded magnesium alloy subjected to an alteration of compressive direction. *Journal of Alloys and Compounds*, **2018**, 737, 549-560 | 5.7 | 34 |
| 250 | Microstructure and Fatigue Properties of a Friction Stir Lap Welded Magnesium Alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 3732-3746 | 2.3 | 34 |
| 249 | Three-dimensional fractal analysis of fracture surfaces in a titanium alloy for biomedical applications. *Scripta Materialia*, **2008**, 59, 391-394 | 5.6 | 34 |
| 248 | Fatigue crack growth behavior of X2095 AlLi alloy. *International Journal of Fatigue*, **1999**, 21, 1079-1086 | 5 | 34 |
| 247 | A new geometric factor formula for a center cracked plate tensile specimen of finite width. *International Journal of Fracture*, **1992**, 55, R3-R8 | 2.3 | 34 |

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| 246 | Influence of aluminum content on twinning and texture development of cast Mg□Al□Zn alloy during compression. *Journal of Alloys and Compounds*, **2015**, 623, 15-23 | 5.7 | 33 |
| 245 | Hot Deformation and Work Hardening Behavior of an Extruded Mg□Zn□Mn□ Alloy. *Journal of Materials Science and Technology*, **2015**, 31, 1161-1170 | 9.1 | 33 |
| 244 | Single and double twin nucleation, growth, and interaction in an extruded magnesium alloy. *Materials and Design*, **2017**, 119, 376-396 | 8.1 | 32 |
| 243 | Hot deformation and activation energy of a CNT-reinforced aluminum matrix nanocomposite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 695, 322-331 | 5.3 | 32 |
| 242 | Effect of strain rate and temperature on strain hardening behavior of a dissimilar joint between Ti□Al□V and Ti17 alloys. *Materials & Design*, **2014**, 56, 174-184 | | 32 |
| 241 | Fiber Laser Welded AZ31 Magnesium Alloy: The Effect of Welding Speed on Microstructure and Mechanical Properties. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2012**, 43, 2133-2147 | 2.3 | 32 |
| 240 | Ultrasonic spot welding of rare-earth containing ZEK100 magnesium alloy to 5754 aluminum alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 666, 139-148 | 5.3 | 32 |
| 239 | Microstructure and mechanical properties of Al□Si cast alloy with additions of Zr□Ti. *Materials and Design*, **2015**, 83, 801-812 | 8.1 | 31 |
| 238 | Heat Treatment Development for a Rapidly Solidified Heat Resistant Cast Al-Si Alloy. *Journal of Materials Engineering and Performance*, **2013**, 22, 1839-1847 | 1.6 | 31 |
| 237 | Liquid metal embrittlement in laser lap joining of TWIP and medium-manganese TRIP steel: The role of stress and grain boundaries. *Materials Characterization*, **2018**, 145, 627-633 | 3.9 | 31 |
| 236 | Characterization of ultrasonic spot welded joints of Mg-to-galvanized and ungalvanized steel with a tin interlayer. *Journal of Materials Processing Technology*, **2014**, 214, 811-817 | 5.3 | 30 |
| 235 | Fatigue of rare-earth containing magnesium alloys: a review. *Fatigue and Fracture of Engineering Materials and Structures*, **2014**, 37, 831-853 | 3 | 30 |
| 234 | Tensile and fatigue behavior of electron beam welded dissimilar joints of Ti□Al□V and IMI834 titanium alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 649, 146-152 | 5.3 | 29 |
| 233 | A model for crack closure. *Engineering Fracture Mechanics*, **1996**, 53, 493-509 | 4.2 | 29 |
| 232 | The dependence of near-threshold fatigue crack growth on microstructure and environment in dual-phase steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1989**, 108, 141-151 | 5.3 | 29 |
| 231 | Influence of pre-strain on de-twinning activity in an extruded AM30 magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 605, 73-79 | 5.3 | 28 |
| 230 | Effects of concavity on tensile and fatigue properties in fibre laser welding of automotive steels. *Science and Technology of Welding and Joining*, **2014**, 19, 60-68 | 3.7 | 28 |
| 229 | Effect of pin tool thread orientation on fatigue strength of friction stir welded AZ31B-H24 Mg butt joints. *Procedia Engineering*, **2010**, 2, 825-833 | | 28 |

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| 228 | Strain-controlled fatigue properties of linear friction welded dissimilar joints between Ti-6Al-4V and Ti-6.5Al-3.5Mo-1.5Zr-0.3Si alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 612, 80-88 | 5.3 | 27 |
| 227 | Influence of pre-deformation and subsequent annealing on strain hardening and anisotropy of AM30 magnesium alloy. *Journal of Alloys and Compounds*, **2014**, 611, 341-350 | 5.7 | 27 |
| 226 | Low-cycle fatigue behavior of INCONEL 718 superalloy with different concentrations of boron at room temperature. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2005**, 36, 2671-2684 | 2.3 | 27 |
| 225 | Modeling dynamic recrystallization during hot deformation of a cast-homogenized Mg-Zn-Zr alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2018**, 720, 180-188 | 5.3 | 26 |
| 224 | Tensile properties of fiber laser welded joints of high strength low alloy and dual-phase steels at warm and low temperatures. *Materials & Design*, **2014**, 56, 193-199 | | 26 |
| 223 | Low cycle fatigue of an extruded Mg-3Nd-0.2Zn-0.5Zr magnesium alloy. *Materials & Design*, **2014**, 64, 63-73 | | 26 |
| 222 | Cyclic Deformation Behavior of a Rare-Earth Containing Extruded Magnesium Alloy: Effect of Heat Treatment. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2015**, 46, 1168-1187 | 2.3 | 26 |
| 221 | Zirconium nitride nano-particulate reinforced Alon composites: Fabrication, mechanical properties and toughening mechanisms. *Journal of the European Ceramic Society*, **2011**, 31, 883-892 | 6 | 26 |
| 220 | Effect of boron and carbon on the fracture toughness of IN 718 superalloy at room temperature and 650 °C. *Journal of Materials Engineering and Performance*, **2005**, 14, 528-538 | 1.6 | 26 |
| 219 | Low cycle fatigue properties of friction stir welded joints of a semi-solid processed AZ91D magnesium alloy. *Materials & Design*, **2014**, 56, 1-8 | | 25 |
| 218 | Low-cycle fatigue of a friction stir welded 2219-T62 aluminum alloy at different welding parameters and cooling conditions. *International Journal of Advanced Manufacturing Technology*, **2014**, 74, 209-218 | 3.2 | 25 |
| 217 | Cyclic deformation of dissimilar welded joints between Ti-6Al-4V and Ti17 alloys: Effect of strain ratio. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 598, 122-134 | 5.3 | 25 |
| 216 | Effect of strain ratio on cyclic deformation behavior of a rare-earth containing extruded magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 588, 250-259 | 5.3 | 25 |
| 215 | Effect of boron on the low-cycle fatigue behavior and deformation structure of INCONEL 718 at 650 °C. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2004**, 35, 3477-3487 | 2.3 | 25 |
| 214 | Tensile and fatigue properties of weld-bonded and adhesive-bonded magnesium alloy joints. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2013**, 563, 125-132 | 5.3 | 24 |
| 213 | Etching technique for revelation of plastic deformation zone in low carbon steel. *Materials Science and Technology*, **2005**, 21, 530-538 | 1.5 | 24 |
| 212 | Influence of Test Temperature on the Tensile Properties along the Thickness in a Friction Stir Welded Aluminum Alloy. *Journal of Materials Science and Technology*, **2015**, 31, 953-961 | 9.1 | 23 |
| 211 | Effect of solidification rate and loading mode on deformation behavior of cast Al-Si-Cu-Mg alloy with additions of transition metals. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 636, 361-372 | 5.3 | 23 |

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| 210 | Fatigue life estimation of ultrasonic spot welded Mg alloy joints. *Materials & Design*, **2014**, 62, 124-132 | | 23 |
| 209 | Strategies for enhancing the room-temperature stretch formability of magnesium alloy sheets: a review. *Journal of Materials Science*, **2021**, 56, 12965 | 4.3 | 23 |
| 208 | Effect of Cr, Ti, V, and Zr Micro-additions on Microstructure and Mechanical Properties of the Al-Si-Cu-Mg Cast Alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2016**, 47, 2396-2409 | 2.3 | 22 |
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