# Masoud Emamy

List of Publications by Year
in descending order

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| 186 | 4,852 | 76196 | 149479 |
|---|---|---|---|
| papers | citations | 40 h-index | 56 g-index |

| 197 | 197 | 197 | 2543 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Formation of TiB2 particles during dissolution of TiAl3 in Alâ€“TiB2 metal matrix composite using an in situ technique. Composites Science and Technology, 2006, 66, 1063-1066. | 3.8 | 136 |
| 2 | Investigation of microstructure, hardness and wear properties of Alâ€“4.5wt.% Cuâ€“TiC nanocomposites produced by mechanical milling. Materials & Design, 2011, 32, 3718-3729. | 5.1 | 135 |
| 3 | Fabrication of Al/A206â€“Al2O3 nano/micro composite by combining ball milling and stir casting technology. Materials & Design, 2013, 49, 347-359. | 5.1 | 126 |
| 4 | The effect of Li on the tensile properties of cast Alâ€“Mg2Si metal matrix composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 490, 250-257. | 2.6 | 120 |
| 5 | Heat treatment effect on the microstructure, tensile properties and dry sliding wear behavior of A356â€“10%B4C cast composites. Materials & Design, 2010, 31, 4414-4422. | 5.1 | 106 |
| 6 | Toward unraveling the effects of intermetallic compounds on the microstructure and mechanical properties of Mgâ€“Gdâ€“Alâ€“Zn magnesium alloys in the as-cast, homogenized, and extruded conditions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 680, 39-46. | 2.6 | 96 |
| 7 | Tailoring the mechanical properties of Mgâ€“Zn magnesium alloy by calcium addition and hot extrusion process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 774, 138929. | 2.6 | 84 |
| 8 | The influence of pure Na on the microstructure and tensile properties of Al-Mg2Si metal matrix composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 4337-4342. | 2.6 | 83 |
| 9 | Effects of particulate reinforcement and heat treatment on the hardness and wear properties of AA 2024-MoSi2 nanocomposites. Materials & Design, 2011, 32, 2157-2164. | 5.1 | 80 |
| 10 | Effect of Mn and Sr on intermetallics in Fe-rich eutectic Al-Si alloy. International Journal of Cast Metals Research, 2002, 15, 17-24. | 0.5 | 74 |
| 11 | The effect of strontium on the microstructure and wear properties of A356â€“10%B4C cast composites. Materials & Design, 2010, 31, 2187-2195. | 5.1 | 74 |
| 12 | The influence of Cu rich intermetallic phases on the microstructure, hardness and tensile properties of Alâ€“15% Mg2Si composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2998-3004. | 2.6 | 73 |
| 13 | Enhanced Ductility of a Fineâ€Grained Mgâ€“Gdâ€“Alâ€“Zn Magnesium Alloy by Hot Extrusion. Advanced Engineering Materials, 2018, 20, 1701171. | 1.6 | 70 |
| 14 | The effect of solution temperature on the microstructure and tensile properties of Alâ€“15%Mg2Si composite. Materials & Design, 2011, 32, 2701-2709. | 5.1 | 69 |
| 15 | The study of Li effect on the microstructure and tensile properties of cast Alâ€“Mg2Si metal matrix composite. Journal of Alloys and Compounds, 2011, 509, 9026-9033. | 2.8 | 67 |
| 16 | Preparation of the Niâ€“P composite coating co-deposited by nano TiC particles and evaluation of it's corrosion property. Applied Surface Science, 2012, 258, 2597-2601. | 3.1 | 67 |
| 17 | Mechanical properties of a hot deformed Al-Mg2Si in-situ composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 726, 10-17. | 2.6 | 65 |
| 18 | Effect of Mn addition on the microstructure and tensile properties of Alâ€“15%Mg2Si composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 550, 191-198. | 2.6 | 63 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The effect of Ti and Zr elements and cooling rate on the microstructure and tensile properties of a new developed super high-strength aluminum alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5318-5325. | 2.6 | 62 |
| 20 | Unraveling the effects of Zn addition and hot extrusion process on the microstructure and mechanical properties of as-cast Mgâ€“2Al magnesium alloy. Vacuum, 2019, 167, 214-222. | 1.6 | 62 |
| 21 | Enhanced mechanical properties of as-cast AZ91 magnesium alloy by combined RE-Sr addition and hot extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 792, 139817. | 2.6 | 60 |
| 22 | Elucidating the effect of intermetallic compounds on the behavior of Mgâ€“Gdâ€“Alâ€“Zn magnesium alloys at elevated temperatures. Journal of Materials Research, 2017, 32, 4186-4195. | 1.2 | 59 |
| 23 | Preparation of electroless Niâ€“P composite coatings containing nano-scattered alumina in presence of polymeric surfactant. Progress in Natural Science: Materials International, 2012, 22, 318-325. | 1.8 | 57 |
| 24 | The Effects of Grain Refinement and Rare Earth Intermetallics on Mechanical Properties of As-Cast and Wrought Magnesium Alloys. Journal of Materials Engineering and Performance, 2018, 27, 1327-1333. | 1.2 | 57 |
| 25 | Synergistic effect of Al and Gd on enhancement of mechanical properties of magnesium alloys. Progress in Natural Science: Materials International, 2017, 27, 228-235. | 1.8 | 56 |
| 26 | Precipitation of Fe rich intermetallics in Cr- and Co-modified A413 alloy. International Journal of Cast Metals Research, 2005, 18, 73-79. | 0.5 | 55 |
| 27 | The Effect of Fe-Rich Intermetallics on the Weibull Distribution of Tensile Properties in a Cast Al-5 Pct Si-3 Pct Cu-1 Pct Fe-0.3 Pct Mg Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 659-670. | 1.1 | 53 |
| 28 | The microstructure, hardness and tensile properties of Alâ€“15%Mg2Si in situ composite with yttrium addition. Materials & Design, 2011, 32, 4559-4566. | 5.1 | 53 |
| 29 | The effect of Zr on the microstructure and tensile properties of hot-extruded Alâ€“Mg2Si composite. Materials & Design, 2012, 36, 323-330. | 5.1 | 53 |
| 30 | Enhanced mechanical properties of AZ91 magnesium alloy by inoculation and hot deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 802, 140667. | 2.6 | 51 |
| 31 | The influence of Ti and Zr on electrochemical properties of aluminum sacrificial anodes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 431, 263-276. | 2.6 | 50 |
| 32 | Effects of La intermetallics on the structure and tensile properties of thin section gravity die-cast A357 Al alloy. Materials and Design, 2016, 94, 111-120. | 3.3 | 50 |
| 33 | The microstructure, hardness and tensile properties of a new super high strength aluminum alloy with Zr addition. Materials & Design, 2010, 31, 4450-4456. | 5.1 | 49 |
| 34 | Effect of Zn addition on the microstructure and mechanical properties of Mg-0.5Ca-0.5RE magnesium alloy. Journal of Alloys and Compounds, 2020, 815, 152380. | 2.8 | 49 |
| 35 | Effects of Alâ€“5Tiâ€“1B and Alâ€“5Zr master alloys on the structure, hardness and tensile properties of a highly alloyed aluminum alloy. Materials & Design, 2010, 31, 200-209. | 5.1 | 46 |
| 36 | Selection of an optimal refinement condition to achieve maximum tensile properties of Alâ€“15%Mg2Si composite based on TOPSIS method. Materials & Design, 2013, 46, 442-450. | 5.1 | 46 |

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|---|---|---|---|
| 37 | Mechanical and Tribological Characterization of Al-Mg2Si Composites After Yttrium Addition and Heat Treatment. Journal of Materials Engineering and Performance, 2014, 23, 1146-1156. | 1.2 | 46 |
| 38 | An investigation on semi-solid Alâ€“7Siâ€“0.3Mg alloy produced by mechanical stirring. Journal of Materials Processing Technology, 2005, 169, 382-387. | 3.1 | 45 |
| 39 | Microstructure, hardness and tensile properties of A380 aluminum alloy with and without Li additions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 582, 409-414. | 2.6 | 45 |
| 40 | Corrosion behavior of Niâ€“P/nano-TiC composite coating prepared in electroless baths containing different types of surfactant. Progress in Natural Science: Materials International, 2012, 22, 480-487. | 1.8 | 43 |
| 41 | The effect of Cu addition and solution heat treatment on the microstructure, hardness and tensile properties of Alâ€“15%Mg2Siâ€“0.15%Li composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 576, 36-44. | 2.6 | 42 |
| 42 | Enhancement of the microstructure and elevated temperature mechanical properties of as-cast Mgâ€‘Al2Caâ€‘Mg2Ca in-situ composite by hot extrusion. Materials Characterization, 2019, 147, 155-164. | 1.9 | 41 |
| 43 | Modification of Cast Al-Mg2Si Metal Matrix Composite by Li. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2009, 40, 822-832. | 1.0 | 40 |
| 44 | Microstructure and tensile properties of cast Alâ€“15%Mg2Si composite: Effects of phosphorous addition and heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 556, 446-453. | 2.6 | 40 |
| 45 | The effect of strontium on the microstructure, porosity and tensile properties of A356â€“10%B4C cast composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 517, 170-179. | 2.6 | 39 |
| 46 | The effect of mischmetal and heat treatment on the microstructure and tensile properties of A357 Alâ€“Si casting alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 556, 573-581. | 2.6 | 39 |
| 47 | The influence of Ni addition and hot-extrusion on the microstructure and tensile properties of Alâ€“15%Mg2Si composite. Materials & Design, 2013, 46, 381-390. | 5.1 | 39 |
| 48 | In- vitro corrosion behavior of the cast and extruded biodegradable Mg-Zn-Cu alloys in simulated body fluid (SBF). Journal of Magnesium and Alloys, 2021, 9, 2078-2096. | 5.5 | 38 |
| 49 | The influence of Li on the tensile properties of extruded in situ Alâ€“15%Mg2Si composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 532, 346-353. | 2.6 | 36 |
| 50 | Mechanical and high temperature wear properties of extruded Al composite reinforced with Al 13 Fe 4 CMA nanoparticles. Materials and Design, 2016, 90, 532-544. | 3.3 | 36 |
| 51 | Effect of grain refinement on mechanical properties and sliding wear resistance of extruded Sc-free 7042 aluminum alloy. Materials & Design, 2014, 54, 361-367. | 5.1 | 35 |
| 52 | Effects of pre-deformation and heat treatment conditions in the SIMA process on properties of an Alâ€“Znâ€“Mgâ€“Cu alloy modified by Alâ€“8B grain refiner. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 4482-4490. | 2.6 | 34 |
| 53 | Microstructural and mechanical characterization of Alâ€“15%Mg2Si composite containing chromium. Materials & Design, 2011, 32, 4262-4269. | 5.1 | 34 |
| 54 | Microstructural evolution and tensile properties of the in situ Alâ€“15%Mg2Si composite with extra Si contents. Materials & Design, 2012, 37, 215-222. | 5.1 | 33 |

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|---|---|---|---|
| 55 | Effect of gadolinium addition on microstructural evolution and solidification characteristics of Al-15%Mg2Si in-situ composite. Materials Characterization, 2018, 135, 57-70. | 1.9 | 33 |
| 56 | The effect of Fe, Mn and Sr on the microstructure and tensile properties of A356â€“10% SiC composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 3733-3740. | 2.6 | 32 |
| 57 | Microstructures and tensile properties of hot-extruded Al matrix composites containing different amounts of Mg2Si. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 586, 190-196. | 2.6 | 32 |
| 58 | Investigation of the effect of Alâ€“5Tiâ€“1B grain refiner on dry sliding wear behavior of an Alâ€“Znâ€“Mgâ€“Cu alloy formed by strain-induced melt activation process. Materials & Design, 2013, 46, 766-775. | 5.1 | 32 |
| 59 | A novel aluminum based nanocomposite with high strength and good ductility. Journal of Alloys and Compounds, 2015, 649, 461-473. | 2.8 | 32 |
| 60 | Mechanical and wear properties of Al-Al3Mg2 nanocomposites prepared by mechanical milling and hot pressing. International Journal of Minerals, Metallurgy and Materials, 2013, 20, 290-297. | 2.4 | 31 |
| 61 | The influence of beryllium addition on the microstructure and mechanical properties of Alâ€“15%Mg2Si in-situ metal matrix composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 8205-8211. | 2.6 | 30 |
| 62 | High temperature friction and wear properties of graphene oxide/polytetrafluoroethylene composite coatings deposited on stainless steel. RSC Advances, 2016, 6, 5977-5987. | 1.7 | 28 |
| 63 | Enhanced mechanical properties of as-cast Mg-Al-Ca magnesium alloys by friction stir processing. Materials Letters, 2021, 296, 129880. | 1.3 | 28 |
| 64 | Microstructure and Tensile Properties of Al-15wt%Mg<sub>2</sub>Si Composite after Hot Extrusion and Heat Treatment. Key Engineering Materials, 0, 471-472, 1171-1176. | 0.4 | 27 |
| 65 | A new intermetallic phase formation in Mg Si Ni magnesium-based in-situ formed alloys. Vacuum, 2019, 164, 349-354. | 1.6 | 27 |
| 66 | The effect of Alâ€“5Tiâ€“1B on the microstructure, hardness and tensile properties of Al2O3 and SiC-containing metalâ€“matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 485, 210-217. | 2.6 | 26 |
| 67 | The effects of boron additions on the microstructure, hardness and tensile properties of in situ Alâ€“15%Mg2Si composite. Materials & Design, 2011, 32, 5049-5054. | 5.1 | 26 |
| 68 | The effect of Fe-rich intermetallics on the microstructure, hardness and tensile properties of Alâ€“Mg2Si die-cast composite. Materials & Design, 2013, 46, 881-888. | 5.1 | 26 |
| 69 | The influence of Cuâ€“15P master alloy on the microstructure and tensile properties of Alâ€“25wt% Mg2Si composite before and after hot-extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 566, 1-7. | 2.6 | 26 |
| 70 | The Effect of Copper Addition on the Fluidity and Viscosity of an Al-Mg-Si Alloy. Journal of Materials Engineering and Performance, 2014, 23, 469-476. | 1.2 | 26 |
| 71 | Influence of Cu Addition on the Structure, Mechanical and Corrosion Properties of Cast Mg-2%Zn Alloy. Journal of Materials Engineering and Performance, 2017, 26, 2136-2150. | 1.2 | 26 |
| 72 | Effect of microalloying by Ca on the microstructure and mechanical properties of as-cast and wrought Mgâ€“Mg2Si composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 820, 141574. | 2.6 | 26 |

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|---|---|---|---|
| 73 | Effects of reinforcing particle size and interface bonding strength on tensile properties and fracture behavior of Al-A206/alumina micro/nanocomposites. Journal of Composite Materials, 2014, 48, 3331-3346. | 1.2 | 25 |
| 74 | Effect of Si and Ni on microstructure and mechanical properties of in-situ magnesium-based composites in the as-cast and extruded conditions. Materials Chemistry and Physics, 2019, 232, 305-310. | 2.0 | 25 |
| 75 | Effect of Tool Pin Profile on the Microstructure and Tribological Properties of Friction Stir Processed Al-20 wt% Mg2Si Composite. Journal of Tribology, 2019, 141, . | 1.0 | 25 |
| 76 | Effects of Alâ€“5Tiâ€“1B on the structure and hardness of a super high strength aluminum alloy produced by strain-induced melt activation process. Materials & Design, 2011, 32, 4485-4492. | 5.1 | 24 |
| 77 | Constitutive modeling of flow stress during hot deformation of Snâ€“Alâ€“Znâ€“Cuâ€“Mg multi-principal-element alloy. Vacuum, 2019, 170, 108970. | 1.6 | 24 |
| 78 | On the conjoint influence of heat treatment and lithium content on microstructure and mechanical properties of A380 aluminum alloy. Materials & Design, 2014, 59, 377-382. | 5.1 | 23 |
| 79 | Microstructures and tensile properties of Al/2024â€“Al 4 Sr composite after hot extrusion and T6 heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 625, 303-310. | 2.6 | 23 |
| 80 | Effects of extrusion temperature on the microstructure and tensile properties of Alâ€“16 wt% Al4Sr metal matrix composite. Materials & Design, 2013, 46, 598-604. | 5.1 | 22 |
| 81 | Thermal analysis study on the grain refinement of Alâ€“15Znâ€“2.5Mgâ€“2.5Cu alloy. Journal of Thermal Analysis and Calorimetry, 2017, 127, 1941-1952. | 2.0 | 22 |
| 82 | The effect of Alâ€“5Tiâ€“1B grain refiner on the structure and tensile properties of Alâ€“20%Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 560, 148-153. | 2.6 | 21 |
| 83 | Exploiting superior tensile properties of a novel network-structure AlA206 matrix composite by hybridizing micron-sized Al 3 Ti with Al 2 O 3 nano particulates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 619, 190-198. | 2.6 | 21 |
| 84 | The effect of Alâ˜5Tiâ˜1B on the microstructure, hardness and tensile properties of a new Zn rich aluminium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 636, 421-429. | 2.6 | 21 |
| 85 | Effects of pre-deformation on microstructure and tensile properties of Alâ€”Znâ€”Mgâ€”Cu alloy produced by modified strain induced melt activation. Transactions of Nonferrous Metals Society of China, 2016, 26, 2283-2295. | 1.7 | 20 |
| 86 | Sr effect on the microstructure and tensile properties of A357 aluminum alloy and Al2O3/SiC-A357 cast composites. Materials Characterization, 2009, 60, 1361-1369. | 1.9 | 19 |
| 87 | The effect of Alâ€“8B grain refiner and heat treatment conditions on the microstructure, mechanical properties and dry sliding wear behavior of an Alâ€“12Znâ€“3Mgâ€“2.5Cu aluminum alloy. Materials & Design, 2012, 38, 64-73. | 5.1 | 19 |
| 88 | Investigation of the effect of Al-8B master alloy and strain-induced melt activation process on dry sliding wear behavior of an Alâ€“Znâ€“Mgâ€“Cu alloy. Materials & Design, 2014, 53, 308-316. | 5.1 | 18 |
| 89 | Mechanical properties of Mg-Al-Mn magnesium alloys with low Al content in the as-cast and extruded conditions. Materials Research Express, 2019, 6, 106521. | 0.8 | 18 |
| 90 | Effect of grain refinement on the microstructure and tensile properties of thin 319 Al castings. Materials & Design, 2011, 32, 1542-1547. | 5.1 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Evaluating the room temperature mechanical properties of age hardened AZ80 magnesium alloy using shear punch testing method. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 606, 360-369. | 2.6 | 17 |
| 92 | Microstructure Evolution and Mechanical Properties of the AZ91 Magnesium Alloy with Sr and Ti Additions in the As-Cast and As-Aged Conditions. Journal of Materials Engineering and Performance, 2019, 28, 6853-6863. | 1.2 | 17 |
| 93 | Effect of Ca additions on evolved microstructures and subsequent mechanical properties of a cast and hot-extruded Mgâ€“Znâ€“Zr magnesium alloy. International Journal of Advanced Manufacturing Technology, 2019, 104, 4265-4275. | 1.5 | 16 |
| 94 | Improvement of mechanical properties of in situ Mg-Si composites via Cu addition and hot working. Journal of Alloys and Compounds, 2022, 905, 164176. | 2.8 | 16 |
| 95 | Fluidity of Al based metal matrix composites containing Al<sub>2</sub>O<sub>3</sub>and SiC particles. International Journal of Cast Metals Research, 2009, 22, 430-437. | 0.5 | 15 |
| 96 | The Effect of La-intermetallic Compounds on Tensile Properties of Al-15%Mg2Si In-situ Composite. , 2015, 11, 55-60. | | 15 |
| 97 | The effect of strain-induced melt activation process on the microstructure and mechanical properties of Ti-refined A6070 Al alloy. Materials & Design, 2013, 46, 824-831. | 5.1 | 14 |
| 98 | The influence of Ti on the microstructure and tensile properties of cast Alâ€“4.5Cuâ€“0.3Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 590, 161-167. | 2.6 | 14 |
| 99 | Effects of Zr addition on solidification characteristics of Alâ€“Znâ€“Mgâ€“Cu alloy using thermal analysis. Journal of Thermal Analysis and Calorimetry, 2018, 134, 1457-1469. | 2.0 | 14 |
| 100 | Grain refinement and enhanced mechanical properties of ZK20 magnesium alloy via hot extrusion and mischmetal addition. Materials Research Express, 2019, 6, 116522. | 0.8 | 14 |
| 101 | The Microstructure, and Mechanical and Corrosion Properties of As-Cast and As-Extruded Mg-2%Zn-x%Cu Alloys After Solution and Aging Heat Treatments. Journal of Materials Engineering and Performance, 2019, 28, 2305-2315. | 1.2 | 14 |
| 102 | The statistical analysis of tensile and compression properties of the as-cast AZ91-X%B4C composites. International Journal of Metalcasting, 2020, 14, 505-517. | 1.5 | 14 |
| 103 | Mechanical Behavior of As-Cast and Extruded Mg-Si-Ni-Ca Magnesium Alloys. Journal of Materials Engineering and Performance, 2020, 29, 7728-7735. | 1.2 | 14 |
| 104 | Microstructure and Tensile Properties of Mgâ€“5Zn Alloy Containing Ca. Metals and Materials International, 2021, 27, 1565-1577. | 1.8 | 14 |
| 105 | Effects of Zr, Ti and B on structure and tensile properties of Alâ€“10Mg alloy (A520). International Journal of Cast Metals Research, 2004, 17, 17-22. | 0.5 | 13 |
| 106 | Ca Addition Effects on the Microstructure, Tensile and Corrosion Properties of Mg Matrix Alloy Containing 8Âwt.% Mg2Si. Journal of Materials Engineering and Performance, 2018, 27, 411-422. | 1.2 | 13 |
| 107 | Influence of Cu Addition on the Microstructure, Mechanical, and Corrosion Properties of Extruded Mg-2%Zn Alloy. Journal of Materials Engineering and Performance, 2020, 29, 2991-3003. | 1.2 | 13 |
| 108 | Effect of Hot Extrusion on Microstructure and Tensile Properties of Ca Modified Mg-Mg2Si Composite. , 2015, 11, 38-43. | | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Wear Behavior of Al/CMA-Type Al<sub>3</sub>Mg<sub>2</sub>Nanocomposites Fabricated by Mechanical Milling and Hot Extrusion. Tribology Transactions, 2016, 59, 219-228. | 1.1 | 12 |
| 110 | Enhanced tensile properties of as-cast Mg-10Al magnesium alloy via strontium addition and hot working. Archives of Civil and Mechanical Engineering, 2021, 21, 1. | 1.9 | 12 |
| 111 | Surface treatment and nickel plating of iron powder metallurgy parts for corrosion protection. Materials & Design, 2009, 30, 3560-3565. | 5.1 | 11 |
| 112 | Effects of Alâ€”5Tiâ€”1B master alloy on the microstructural evaluation of a highly alloyed aluminum alloy produced by SIMA process. AIP Conference Proceedings, 2010, , . | 0.3 | 11 |
| 113 | Effects of Zr and B on the structure and tensile properties of Alâ€“20%Mg alloy. Materials & Design, 2014, 56, 557-564. | 5.1 | 11 |
| 114 | Investigation the Effect of Al-5Ti-1B Grain Refiner and T6 Heat Treatment on Tensile Properties of Al-8%Mg. , 2015, 11, 32-37. | | 11 |
| 115 | Evaluating the Effect of Hotâ€Rolling Reduction on the Mechanical Properties of In Situ Formed Aluminumâ€“Magnesiumâ€“Silicon (Alâ€Mg<sub>2</sub>Si) Composites. Advanced Engineering Materials, 2019, 21, 1900609. | 1.6 | 11 |
| 116 | Influence of Hot Extrusion on the Microstructure, Tensile and Wear Properties of Mgâ€“5Sbâ€“xSiC Hybrid Composites. Metals and Materials International, 2022, 28, 679-694. | 1.8 | 11 |
| 117 | Synergistic Effects of Cerium-Based Rare Earth Addition and Hot Deformation on the Microstructure and Mechanical Properties of Mg-0.5Zn-0.5Zr Magnesium Alloy. Metals and Materials International, 2022, 28, 1105-1113. | 1.8 | 11 |
| 118 | Tailoring the mechanical properties of hypereutectic in situ Alâ€“Mg2Si composites via hybrid TiB2 reinforcement and hot extrusion. Archives of Civil and Mechanical Engineering, 2022, 22, 1. | 1.9 | 11 |
| 119 | Improvement in Tensile and Wear Properties of As-Cast Alâ€“15%Mg2Si Composite Modified by Zn and Ni. International Journal of Metalcasting, 2017, 11, 790-801. | 1.5 | 10 |
| 120 | Elucidating the Effect of TiB2 Volume Percentage on the Mechanical Properties and Corrosion Behavior of Al5083-TiB2 Composites. Journal of Materials Engineering and Performance, 2019, 28, 6912-6920. | 1.2 | 10 |
| 121 | Effect of Isothermal Reheating at Different Holding Times on The Microstructure of Al-Mg[sub 2]Si In-situ Cast Composite. , 2010, , . | | 9 |
| 122 | Study on fracture behaviour of Alâ€“15%Mg2Si metal matrix composite with and without beryllium additions. Journal of Materials Science, 2011, 46, 6856-6862. | 1.7 | 9 |
| 123 | Hardness and Wear Properties of Al–4.5%Cu/Al<sub>3</sub>Mg<sub>2</sub> Nanocomposite Prepared by Mechanical Alloying. Materials Transactions, 2012, 53, 1310-1317. | 0.4 | 9 |
| 124 | Microstructures and Tensile Properties of Hot-Extruded Al Matrix Composites Containing Different Amounts of Al4Sr. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 5344-5350. | 1.1 | 9 |
| 125 | The Effect of Si and Extrusion Process on the Microstructure and Tensile Properties of Mg-Mg2Si Composite. , 2015, 11, 79-83. | | 9 |
| 126 | Effects of Be additions on microstructure, hardness and tensile properties of A380 aluminum alloy. Transactions of Nonferrous Metals Society of China, 2015, 25, 3539-3545. | 1.7 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Microstructure and Interface Studies of Al/SiC<sub>p</sub> Composites Produced by Dynamic Compaction. Materials Science Forum, 2004, 465-466, 213-218. | 0.3 | 8 |
| 128 | Structural characterization of AA 2024-MoSi2 nanocomposite powders produced by mechanical milling. International Journal of Minerals, Metallurgy and Materials, 2013, 20, 298-306. | 2.4 | 8 |
| 129 | The Influence of Anode Composition on Energy Consumption and Current Efficiency in Zinc Electrowinning. Journal of the Electrochemical Society, 2017, 164, E166-E172. | 1.3 | 8 |
| 130 | The influence of heat treatment on the structure and tensile properties of thin-section A356 aluminum alloy casts refined by Ti, B and Zr. Journal of Materials Research, 2017, 32, 3540-3547. | 1.2 | 8 |
| 131 | Mechanical properties of as-cast and wrought Mgâ€“5Ni-xAl magnesium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142996. | 2.6 | 8 |
| 132 | Enhanced mechanical properties of as-cast rare earth bearing magnesium alloy via elevated-temperature homogenization. Materials Today Communications, 2022, 31, 103821. | 0.9 | 8 |
| 133 | Influence of sintering on bending strength of underwater shock consolidated Alâ€“SiCpcomposites. Materials Science and Technology, 2006, 22, 349-352. | 0.8 | 7 |
| 134 | Statistical analysis of tensile properties of cast A357/Al<sub>2</sub>O<sub>3</sub> MMCs. Materials Science and Technology, 2010, 26, 149-156. | 0.8 | 7 |
| 135 | The Effect of Sr and Grain Refining Elements on the Microstructure and Tensile Properties of A356-10%B4C Metal Matrix Composite. Mechanics of Advanced Materials and Structures, 2011, 18, 210-217. | 1.5 | 7 |
| 136 | The effect of Bi addition on the microstructure and tensile properties of cast Alâ€15%Mg<sub>2</sub>Si composite. Materialwissenschaft Und Werkstofftechnik, 2013, 44, 431-435. | 0.5 | 7 |
| 137 | Effects of Zn addition on the microstructure and tensile properties of hot-extruded Alâ€“16wt% Al4Sr in-situ composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 606, 92-100. | 2.6 | 7 |
| 138 | The Microstructure and Tensile Properties of a Newly Developed Mgâ€“Al/Mg3Sb2 In Situ Composite in As-Cast and Extruded Conditions. Metals and Materials International, 2018, 24, 1099-1111. | 1.8 | 7 |
| 139 | Effects of Ca/Al ratio and extrusion process on Mgâ€“Alâ€“Ca alloys to produce a high toughness in-situ composite. Philosophical Magazine, 2018, 98, 2826-2844. | 0.7 | 7 |
| 140 | Effect of Isothermal Holding on Semisolid Microstructure of Alâ€“Mg<sub>2</sub>Si Composites. ISRN Metallurgy, 2012, 2012, 1-7. | 0.7 | 7 |
| 141 | Effects of Mg<sub>2</sub>Sn intermetallic on the microstructure and tensile properties of Alâ€“15% Mg<sub>2</sub>Siâ€“X% Sn composite. Journal of Materials Research, 2016, 31, 3891-3899. | 1.2 | 6 |
| 142 | The Effect of Ca Content on the Microstructure, Hardness and Tensile Properties of AZ81 Mg Cast Alloy. Journal of Materials Engineering and Performance, 2017, 26, 2151-2161. | 1.2 | 6 |
| 143 | The microstructure, mechanical and wear properties of AZ91-x%B<sub>4</sub>C metal matrix composites in as-cast and extruded conditions. Materials Research Express, 2019, 6, 126522. | 0.8 | 6 |
| 144 | Synergistic effects of alloying, homogenization, and hot extrusion on the mechanical properties of as-cast Mgâ€“Alâ€“Ca magnesium alloys. Archives of Civil and Mechanical Engineering, 2021, 21, 1. | 1.9 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Microstructure, mechanical properties and wear behaviour of the AZ91â€“Mg<sub>2</sub>Siâ€“SiC hybrid composites. Materials Science and Technology, 2021, 37, 1333-1341. | 0.8 | 6 |
| 146 | The Evolution of Heat Treatment on the Tensile Properties of Na-Modified Al-Mg<sub>2</sub>Si In Situ Composite. Advanced Materials Research, 2011, 311-313, 283-286. | 0.3 | 5 |
| 147 | Effects of Morphological Characteristics of Alumina Particles and Interfacial Bonding Strength on Wear Behavior of Nano/Micro-alumina Particulates Reinforced Al/A206 Matrix Composites. Tribology Letters, 2013, 51, 499-511. | 1.2 | 5 |
| 148 | The Study of Microstructures and Tensile Properties of an <i>In Situ</i> A356-ZrB<sub>2</sub> Metal Matrix Composite. Key Engineering Materials, 0, 553, 29-33. | 0.4 | 5 |
| 149 | The microstructural revolution of Al-10%Al<sub>3</sub>Mg<sub>2</sub>nanocomposite during mechanical milling. Advances in Materials and Processing Technologies, 2016, 2, 152-164. | 0.8 | 5 |
| 150 | The effects of Cu addition and solutionising heat treatment on the microstructure and wear properties of hot-extruded Alâ€“Mg<sub>2</sub>Si eutectic alloy. Advances in Materials and Processing Technologies, 2017, 3, 164-173. | 0.8 | 5 |
| 151 | Microstructures and mechanical performance of Mgâ€“4Siâ€“6Niâ€“xY in situ composite after extrusion process. Materials Science and Technology, 2022, 38, 169-180. | 0.8 | 5 |
| 152 | Tailoring the tensile properties of AZ91 magnesium alloy via grain refinement. Materials Science and Technology, 2022, 38, 1434-1438. | 0.8 | 5 |
| 153 | Effects of the SIMA Process on the Microstructure of 6061 Al Alloy Refined by Al-5Ti-1B. Key Engineering Materials, 2013, 553, 87-92. | 0.4 | 4 |
| 154 | Effect of MoSi<sub>2</sub> distribution on room and high temperature mechanical properties of aluminum matrix nanocomposites. Journal of Materials Research, 2016, 31, 1741-1747. | 1.2 | 4 |
| 155 | Effects of Al3Ni and Al7Cr Intermetallics and T6 Heat Treatment on the Microstructure and Tensile Properties of Al-Zn-Mg-Cu Alloy. Journal of Materials Engineering and Performance, 2020, 29, 3432-3442. | 1.2 | 4 |
| 156 | Enhanced mechanical properties of Mgâ€“Niâ€“xRE alloys via hot extrusion. Materials Science and Technology, 2021, 37, 1285-1290. | 0.8 | 4 |
| 157 | Comparative Study of Al/SiC<sub>p</sub> Composites Manufactured by Direct and Underwater Explosive Compaction. Materials Science Forum, 2004, 465-466, 433-438. | 0.3 | 3 |
| 158 | Investigation of Wear Properties of Al-4.5wt.%Cu Nano-Composite Reinforced with Different Weight Percent of TiC Nano Particles Produced by Mechanical Alloying. Advanced Materials Research, 0, 545, 124-128. | 0.3 | 3 |
| 159 | The Influences of Interfacial Characteristics and Subsurface Microstructural Evolution on Wear Behavior of Al/A206-5ÂPct Alumina Micro/Nano-Composites. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1115-1124. | 1.0 | 3 |
| 160 | Evaluating Microstructure and High-Temperature Shear Behavior of Hot Extruded Al-Al<sub>13</sub>Fe<sub>4</sub> Nanocomposite. Materials Transactions, 2016, 57, 1236-1245. | 0.4 | 3 |
| 161 | The effects of Zr and Ti on the microstructure and tensile properties of Alâ€“Cuâ€“Mg aluminium alloy. Canadian Metallurgical Quarterly, 2018, 57, 470-480. | 0.4 | 3 |
| 162 | Elucidating the Effects of Cu and Hot-Extrusion on Tensile Properties of Alâ€“AlSb In Situ Composite. Metals and Materials International, 2020, 27, 2682. | 1.8 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Effects of Zr additions on structure and tensile properties of an Al-4.5Cu-0.3Mg-0.05Ti (wt.%) alloy. China Foundry, 2022, 19, 9. | 0.5 | 3 |
| 164 | Interfacial characterisation in Alâ€“20 vol.-%SiC<sub>p</sub> explosively compacted composite. Materials Science and Technology, 2009, 25, 108-110. | 0.8 | 2 |
| 165 | The Influence of Yttrium Rich Intermetallic Phases and Heat Treatment on the Microstructure, Hardness and Wear Properties of Al-15%Mg<sub>2</sub>Si Composite. Key Engineering Materials, 0, 471-472, 1165-1170. | 0.4 | 2 |
| 166 | Effects of Strontium and Calcium on the Microstructure and Grain Size of Cast AZ91 Magnesium Alloy. Advanced Materials Research, 0, 264-265, 789-794. | 0.3 | 2 |
| 167 | The Effect of Simultaneous Addition of Ca and Sr on the Microstructure and Tensile Properties of A357-20% Al<sub>2</sub>O<sub>3</sub>Composite. Mechanics of Advanced Materials and Structures, 2011, 18, 201-209. | 1.5 | 2 |
| 168 | The Influence of Li on the Tensile Properties of Al-Mg<sub>2</sub>Si Metal Matrix Composite. Key Engineering Materials, 0, 471-472, 1052-1057. | 0.4 | 2 |
| 169 | STRUCTURAL AND MORPHOLOGICAL EVALUATION OF NANO-SIZED <font>MoSi</font><sub>2</sub> POWDER PRODUCED BY MECHANICAL MILLING. International Journal of Modern Physics Conference Series, 2012, 05, 464-471. | 0.7 | 2 |
| 170 | Effect of Titanium on Microstructure of Al2014 Alloy Prepared by SIMA Process. Key Engineering Materials, 0, 553, 93-98. | 0.4 | 2 |
| 171 | Nanocomposites of aluminum alloy-MoSi<sub>2</sub>: Synthesis and characterization. Journal of Composite Materials, 2015, 49, 3145-3155. | 1.2 | 2 |
| 172 | Effects of Grain Refiners and Cooling Rates on the Microstructure and Tensile Properties of A357Alloy. Metallography, Microstructure, and Analysis, 0, , 1. | 0.5 | 2 |
| 173 | Effect of Calcium Addition and Heat Treatment on the Al-Zn-In Alloys as Sacrificial Anode. Materials Science Forum, 2007, 546-549, 761-766. | 0.3 | 1 |
| 174 | Influence of Hot Extrusion Process on the Mechanical Behavior of AA6061/SIC Composites. Advanced Materials Research, 0, 264-265, 141-148. | 0.3 | 1 |
| 175 | Comparative Study of Al/TiB<sub>2</sub> Composites Manufactured by Underwater and Direct Shock Wave Consolidation. Materials Science Forum, 2011, 673, 231-236. | 0.3 | 1 |
| 176 | Synthesis and Mechanical Properties of a Novel Al/Î'-Al<sub>3</sub>Mg<sub>2</sub> Nanocomposite Prepared by Mechanical Alloying Process. Advanced Materials Research, 0, 445, 827-832. | 0.3 | 1 |
| 177 | Microstructural evaluation and tensile properties of Cd-added Al-15Mg<sub>2</sub>Si-3Cu composite. Advances in Materials and Processing Technologies, 2016, 2, 73-82. | 0.8 | 1 |
| 178 | Effect of Pr on the grain refinement and mechanical properties of AM50 alloy in as-cast condition. AIP Conference Proceedings, 2018, , . | 0.3 | 1 |
| 179 | Microstructure, tensile and bending behaviour of the as-cast AM50 alloy modified with different antimony and copper additions. Materials Science and Technology, 2021, 37, 86-102. | 0.8 | 1 |
| 180 | Wear Behavior of Al-Mg[sub 2]Si Cast In-situ Composite: Effect of Mg[sub 2]Si Different Volume Fractions. , 2010, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | The Effect of Li Additions on Wear Properties of Al-Mg[sub 2]Si Cast In-situ Composites. , 2010, , . | | 0 |
| 182 | Effects of Boron on Microstructure and Tensile Properties of Al-Mg[sub 2]Si Metal Matrix Composite. , 2010, , . | | 0 |
| 183 | The Effects of Isothermal Temperature on the Microstructure of Semisolid A6070 Alloy Produced by SIMA Process. Advanced Materials Research, 0, 264-265, 415-420. | 0.3 | 0 |
| 184 | The Effect of Lithium on the Microstructure and Morphology of Fe-Rich Intermetallic Compounds in 360 Cast Alloy. Advanced Materials Research, 0, 264-265, 1782-1787. | 0.3 | 0 |
| 185 | Effects of Titanium Combined with Aluminium on the Electrochemical Properties and Efficiency of Mg-Mn Anodes. Advanced Materials Research, 2011, 264-265, 783-788. | 0.3 | 0 |
| 186 | Effect of Al-15Zr Master Alloy and Extrusion Process on Microstructure and Mechanical Properties of Al-6%Mg Alloy. , 2015, 11, 438-443. | | 0 |