

Srinivasan Amirthalingam

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.

55
papers

1,584
citations

24
h-index

38
g-index

55
ext. papers

1,813
ext. citations

3.8
avg, IF

4.66
L-index

#	Paper	IF	Citations
55	Corrosion Behaviour of Magnesium Alloys and Chemical Conversion Coatings for their Improved Corrosion Resistance. <i>Indian Institute of Metals Series</i> , 2022 , 315-330	0.3	0
54	Comparison of Prediction Models for the Hot Deformation Behavior of Cast Mg ₉₀ Zn ₁₀ Alloy. <i>Transactions of the Indian Institute of Metals</i> , 2020 , 73, 1619-1628	1.2	2
53	Effect of multiaxial forging followed by hot rolling on non-basal planes and its influence on tensile and fracture toughness behaviour of Mg ₉₀ Zn ₁₀ Gd alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 774, 138890	5.3	16
52	Influence of hot rolling and evolved microstructure on high cycle fatigue behaviour of Mg-4Zn-4Gd alloy. <i>Materials Characterization</i> , 2020 , 160, 110048	3.9	6
51	Investigations on induced residual stresses, mechanical and metallurgical properties of CO ₂ laser beam and pulse current gas tungsten arc welded SMO 254. <i>Journal of Manufacturing Processes</i> , 2019 , 44, 81-90	5	13
50	Synthesis and characterization of hypoeutectic Al-Mg nano powder produced by electrical explosion method. <i>Materials Research Express</i> , 2019 , 6, 1150g5	1.7	1
49	Investigation on the corrosion behavior of lanthanum phosphate coatings on AZ31 Mg alloy obtained through chemical conversion technique. <i>Journal of Alloys and Compounds</i> , 2019 , 784, 1162-1174	5.7	22
48	Tensile and fracture toughness behaviour of ultrafine grained Mg-4Zn-4Gd alloy processed through hot rolling followed by hot pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 742, 318-333	5.3	21
47	Laser surface modification of Mg-Zn-Gd alloy: microstructural, wettability and in vitro degradation aspects. <i>Materials Research Express</i> , 2018 , 5, 126502	1.7	3
46	Investigations on the microstructure, mechanical, corrosion and wear properties of Mg-9Al-xGd (0, 0.5, 1, and 2 wt%) alloys. <i>Journal of Materials Research</i> , 2017 , 32, 3732-3743	2.5	2
45	Microstructural evolution in ultrafine grained Al-Graphite composite synthesized via combined use of ultrasonic treatment and friction stir processing. <i>Journal of Alloys and Compounds</i> , 2017 , 726, 358-366	5.7	17
44	Studies on tensile behaviour and microstructural evolution of UFG Mg-4Zn-4Gd alloy processed through hot rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 704, 412-426	5.3	19
43	Investigation on the microstructure, mechanical properties and corrosion behavior of Mg-Sb and Mg-Sb-Si alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 691, 81-88	5.7	13
42	Nano and macromechanical properties of aluminium (A356) based hybrid composites reinforced with multiwall carbon nanotubes/alumina fiber. <i>Journal of Composite Materials</i> , 2017 , 51, 1631-1642	2.7	13
41	Creep behavior of Mg ₉₀ Gd ₁₀ Zn (x=2 and 6 wt%) alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 649, 158-167	5.3	15
40	Composite magnesium phosphate coatings for improved corrosion resistance of magnesium AZ31 alloy. <i>Corrosion Science</i> , 2016 , 113, 104-115	6.8	111
39	Grain refinement to submicron regime in multiaxial forged Mg-2Zn-2Gd alloy and relationship to mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 668, 59-65	5.3	58

38	A Review of Different Creep Mechanisms in Mg Alloys Based on Stress Exponent and Activation Energy . <i>Advanced Engineering Materials</i> , 2016 , 18, 770-794	3.5	43
37	Hot tearing characteristics of Mg ₀ Ca ₀ Zn alloys. <i>Journal of Materials Science</i> , 2016 , 51, 2687-2704	4.3	23
36	The Effect of Yttrium Addition on the Microstructure and Mechanical Properties of Mg Alloys. <i>Transactions of the Indian Institute of Metals</i> , 2015 , 68, 331-339	1.2	6
35	Hot Tearing Susceptibility of Mg-Ca Binary Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 6003-6017	2.3	17
34	Mechanical characterization and corrosion behavior of newly designed Sn and Y added AZ91 alloy. <i>Materials and Design</i> , 2015 , 88, 871-879	8.1	40
33	Mechanical and Wear Properties of Sb- and Y-Added Mg-9Al-1Zn (AZ91) Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 4234-4246	2.3	6
32	Effect of Zn addition on hot tearing behaviour of Mg _{0.5} Ca ₀ Zn alloys. <i>Materials and Design</i> , 2015 , 87, 157-170	8.1	30
31	An Investigation on Hot Tearing of Mg-4.5Zn-(0.5Zr) Alloys with Y Additions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 2108-2118	2.3	23
30	Investigations on microstructures, mechanical and corrosion properties of Mg ₀ d ₀ Zn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 595, 224-234	5.3	84
29	Microstructures and mechanical properties of pure Mg processed by rotary swaging. <i>Materials & Design</i> , 2014 , 63, 83-88		34
28	Corrosion behavior of Mg ₀ d ₀ Zn based alloys in aqueous NaCl solution. <i>Journal of Magnesium and Alloys</i> , 2014 , 2, 245-256	8.8	51
27	Experimental and numerical analysis of hot tearing susceptibility for Mg ₀ alloys. <i>Journal of Materials Science</i> , 2014 , 49, 353-362	4.3	35
26	Hot Tearing Characteristics of Binary Mg-Gd Alloy Castings. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 2285-2298	2.3	32
25	Mechanism for Grain Refinement and Mechanical Properties of AZ91 Mg Alloy by Carbon Inoculation. <i>Procedia Engineering</i> , 2013 , 55, 93-97		19
24	Hot tearing susceptibility of binary Mg ₀ alloy castings. <i>Materials & Design</i> , 2013 , 47, 90-100		63
23	Creep Behavior of AZ91 Magnesium Alloy. <i>Procedia Engineering</i> , 2013 , 55, 109-113		31
22	Microstructure, Mechanical and Corrosion Properties of Mg-Gd-Zn Alloys. <i>Materials Science Forum</i> , 2013 , 765, 28-32	0.4	4
21	Influences of Y Additions on the Hot Tearing Susceptibility of Mg-1.5wt.%Zn Alloys. <i>Materials Science Forum</i> , 2013 , 765, 306-310	0.4	10

20	Modification of AZ91 Mg Alloys for High Temperature Applications. <i>Transactions of the Indian Institute of Metals</i> , 2012 , 65, 601-606	1.2	33
19	Hot Tearing Susceptibility of Magnesium-Cadmium Binary Alloys. <i>Transactions of the Indian Institute of Metals</i> , 2012 , 65, 701-706	1.2	3
18	Metallurgical Characterization of Hot Tearing Curves Recorded during Solidification of Magnesium Alloys. <i>Acta Physica Polonica A</i> , 2012 , 122, 497-500	0.6	15
17	Development of Magnesium Based Alloys for High Temperature Applications. <i>Materials Science Forum</i> , 2011 , 673, 179-184	0.4	2
16	The effect of charcoal addition on the grain refinement and ageing response of magnesium alloy AZ91. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 8573-8578	5.3	25
15	Microstructural refinement and tensile properties enhancement of MgAl alloy using charcoal additions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 2502-2508	5.3	11
14	Effects of elemental additions (Si and Sb) on the ageing behavior of AZ91 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 6543-6550	5.3	37
13	Effect of intermetallic phases on the creep behavior of AZ91 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 1395-1403	5.3	86
12	Influence of boron addition on the grain refinement and mechanical properties of AZ91 Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 525, 207-210	5.3	59
11	Effect of antimony addition on the microstructure and mechanical properties of ZA84 magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2008 , 455, 168-173	5.7	33
10	Effect of combined addition of Si and Sb on the microstructure and creep properties of AZ91 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 485, 86-91	5.3	61
9	Effect of Pb and Sb additions on the precipitation kinetics of AZ91 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 457, 275-281	5.3	44
8	Effect of Pb addition on ageing behavior of AZ91 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 452-453, 87-92	5.3	56
7	Observation of the suppression of Mg ₁₇ Al ₁₂ formation in a La-containing AZ91 alloy. <i>Journal of Materials Science</i> , 2007 , 42, 8374-8376	4.3	5
6	Microstructural and textural evolution during large strain hot rolling (LSR) of MgAl (AZ31) alloy. <i>Materials Science and Technology</i> , 2007 , 23, 1313-1320	1.5	3
5	Influence of Si and Sb additions on the corrosion behavior of AZ91 magnesium alloy. <i>Intermetallics</i> , 2007 , 15, 1511-1517	3.5	73
4	Enhanced high temperature properties of low pressure cast AZ91 Mg alloy. <i>International Journal of Cast Metals Research</i> , 2006 , 19, 265-268	1	5
3	Observations of microstructural refinement in MgAlSi alloys containing strontium. <i>Journal of Materials Science</i> , 2006 , 41, 6087-6089	4.3	47

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| 2 | Microstructure and mechanical properties of Si and Sb added AZ91 magnesium alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 2235-2243 | 2.3 | 97 |
| 1 | LOW-PRESSURE CASTING OF LM25 (Al-7Si-0.3 Mg) ALUMINIUM ALLOY. <i>Materials and Manufacturing Processes</i> , 2005 , 20, 221-230 | 4.1 | 6 |