

Henry Hu

List of Publications by Year in descending order

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1,586
citations

361413

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109
docs citations

109
times ranked

1337
citing authors

#	ARTICLE	IF	CITATIONS
1	Al Alloys and Casting Processes for Induction Motor Applications in Battery-Powered Electric Vehicles: A Review. <i>Metals</i> , 2022, 12, 216.	2.3	15
2	Corrosion and microstructure of as-cast magnesium alloy AM60-based hybrid nanocomposite. <i>Advances in Materials and Processing Technologies</i> , 2021, 7, 181-199.	1.4	1
3	Nano-yttrium-containing precipitates of T6 heat-treated A356.2 alloy when trace yttrium (Y less than) Tj ETQq1 1 0,784314 rgBT /Ove	7.1	7
4	Influence of applied pressures and casting section thicknesses on interfacial heat transfer in squeeze casting of magnesium alloy AZ91. <i>Heat and Mass Transfer</i> , 2021, 57, 1107-1120.	2.1	1
5	Heat transfer during squeeze casting of aluminium alloy A380. <i>Advances in Materials and Processing Technologies</i> , 2020, , 1-12.	1.4	0
6	Microstructure, Tensile Properties and Fracture Behavior of Squeeze-Cast Mg Alloy AZ91 with Thick Cross Section. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 4130-4141.	2.5	9
7	Squeeze Cast Mg-Zn Alloys for Bioapplications: Tensile Properties and Microstructure. <i>Key Engineering Materials</i> , 2020, 834, 169-176.	0.4	1
8	Determination of interfacial heat transfer coefficients for squeeze casting of magnesium alloy AZ91 with various section thicknesses. <i>Advances in Materials and Processing Technologies</i> , 2020, , 1-14.	1.4	0
9	Precise Forming of Complex Magnesium Alloy Components Based on Finite Element Method and Quantitative Preforming Design. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 5139-5146.	2.5	4
10	Processing maps of extruded AZ80+ 0.4% Ce magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156064.	5.5	12
11	Corrosion Behavior of Squeeze Cast Mg Alloy AM60-Based Hybrid Nanocomposite. <i>Minerals, Metals and Materials Series</i> , 2020, , 259-265.	0.4	1
12	Microstructure, Tensile Properties and Fracture Behavior of HPDC Magnesium Alloy AZ91. <i>International Journal of Materials Mechanics and Manufacturing</i> , 2020, 8, 50-56.	0.2	3
13	Nano microstructure development and solidification of Zn-6wt% Al hypereutectic alloy. <i>Materials Characterization</i> , 2019, 147, 295-302.	4.4	5
14	As-cast magnesium AM60-based hybrid nanocomposite containing alumina fibres and nanoparticles: Microstructure and tensile behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 740-741, 305-314.	5.6	21
15	Solidification and Microstructure of Ni-Containing Al-Si-Cu Alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 301, 012002.	0.6	3
16	Effect of Ni addition on tensile properties of squeeze cast Al alloy A380. <i>Advances in Materials and Processing Technologies</i> , 2018, 4, 200-209.	1.4	5
17	Pouring temperature-dependent tensile properties of squeeze cast magnesium alloy AJ62. <i>Advances in Materials and Processing Technologies</i> , 2018, 4, 262-271.	1.4	3
18	Microstructure and tensile properties of squeeze cast aluminium alloy A380 containing Ni and Sr addition. <i>Advances in Materials and Processing Technologies</i> , 2017, 3, 90-100.	1.4	5

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19	Effects of niobium addition on microstructure and tensile behavior of as-cast ductile iron. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 688, 416-428.	5.6	29
20	Characterization and kinetic modeling of secondary phases in squeeze cast Al alloy A380 by DSC thermal analysis. <i>China Foundry</i> , 2017, 14, 98-107.	1.4	9
21	Interfacial heat transfer of squeeze casting of wrought aluminum alloy 5083 with variation in wall thicknesses. <i>Advances in Materials and Processing Technologies</i> , 2017, 3, 407-417.	1.4	1
22	Corrosion Behaviors of Permanent Mold Cast Mg Alloy AJ62 with Varying Grain Structures in Automotive-Related Environments. <i>Applied Mechanics and Materials</i> , 2017, 865, 9-14.	0.2	0
23	High-Cycle Fatigue of High-Strength Low Alloy Steel Q345 Subjected to Immersion Corrosion for Mining Wheel Applications. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 1758-1768.	2.5	3
24	Characterization of Squeeze Cast Mg Alloy AM50 Containing Ca Addition. <i>Applied Mechanics and Materials</i> , 2017, 872, 14-18.	0.2	0
25	Processing and Properties of As-Cast Magnesium AM60-Based Composite Containing Alumina Nano Particles and Micron Fibres. <i>Minerals, Metals and Materials Series</i> , 2017, , 573-578.	0.4	3
26	Recovery of Aluminum Alloy A380 from Machining Chips. <i>Applied Mechanics and Materials</i> , 2016, 835, 155-160.	0.2	1
27	Process optimization for high pressure die casting of marine propeller with a hypoeutectic Al-Si-Mg Alloy. <i>Metallurgical Research and Technology</i> , 2016, 113, 402.	0.7	0
28	Interfacial heat transfer in squeeze casting of magnesium alloy AM60 with variation of applied pressures and casting wall-thicknesses. <i>Heat and Mass Transfer</i> , 2016, 52, 2303-2315.	2.1	2
29	Effect of Grain Refiner $C_{2}Cl_{6}$ on Tensile Properties of Squeeze Cast Mg Alloy AM60. <i>Advanced Materials Research</i> , 2015, 1120-1121, 983-988.	0.3	0
30	Microstructure and Tensile Properties of Mg (AM60)/Al ₂ O ₃ Metal Matrix Composites with Varying Volume Fractions of Fiber Reinforcement. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 4601-4611.	2.5	18
31	Tensile Properties of Squeeze Cast Mg-Al-Sr Alloy under Applied Pressures. <i>Advanced Materials Research</i> , 2015, 1088, 181-185.	0.3	0
32	Grain Structure Development of $C_{2}Cl_{6}$ -Refined Magnesium Alloy AM60. <i>Applied Mechanics and Materials</i> , 2014, 651-653, 42-45.	0.2	0
33	Stress and fatigue life analyses of a five-piece rim and the proposed optimization with a two-piece rim. <i>Journal of Terramechanics</i> , 2014, 52, 31-45.	3.1	4
34	Tensile behaviour and microstructure of magnesium AM60-based hybrid composite containing Al ₂ O ₃ fibres and particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 607, 269-276.	5.6	54
35	Development and validation of a FE model of a mining vehicle tyre. <i>International Journal of Vehicle Design</i> , 2014, 65, 176.	0.3	2
36	Thermal Conductivities of Nanostructured Magnesium Oxide Coatings Deposited on Magnesium Alloys by Plasma Electrolytic Oxidation. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 7933-7937.	0.9	3

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37	Determination and Relaxation of Residual Stress in 2024 Al-30Vol.% Magnesium Borate Whisker Composites. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 3126-3133.	2.5	3
38	A threaded-connection locking mechanism integrated into a multi-piece mining wheel for enhanced structural performance and safety. <i>Journal of Terramechanics</i> , 2013, 50, 245-264.	3.1	1
39	FE Modelling of Tensile and Impact Behaviours of Squeeze Cast Magnesium Alloy AM60. , 2013, , 35-39.		0
40	Ultra-Mild Wear of Al ₂ O ₃ Fibre and Particle Reinforced Magnesium Matrix Composites. <i>Advanced Materials Research</i> , 2012, 445, 503-508.	0.3	8
41	Influence of Aging Temperatures and Times on Mechanical Properties of Vacuum High Pressure Die Cast Aluminum Alloy A356. <i>Advanced Materials Research</i> , 2012, 445, 277-282.	0.3	10
42	Numerical Analysis of Thermal Distributions in Aluminum Engine Cylinders Influenced by Alumina Ceramic Coatings. <i>Numerical Heat Transfer; Part A: Applications</i> , 2012, 62, 463-478.	2.1	6
43	Experimental observations of tyre deformation characteristics on heavy mining vehicles under static and quasi-static loading. <i>Journal of Terramechanics</i> , 2012, 49, 215-231.	3.1	9
44	Effects of coating thickness on thermal conductivities of alumina coatings and alumina/aluminum hybrid materials prepared using plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , 2012, 207, 96-101.	4.8	42
45	Experimental Study and Numerical Verification of Heat Transfer in Squeeze Casting of Aluminum Alloy A443. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2012, 43, 1676-1683.	2.1	13
46	Section thickness-dependant interfacial heat transfer in squeeze casting of aluminum alloy A443. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 27, 012073.	0.6	3
47	Influence of Applied Pressure on Tensile Behaviour and Microstructure of Squeeze Cast Mg Alloy AM50 with Ca Addition. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 38-46.	2.5	13
48	Impact and Energy Dissipation Characteristics of Squeeze and Die Cast Magnesium Alloy AM60. , 2012, , 165-168.		1
49	Influence of Section Thickness on Microstructure and Mechanical Properties of Squeeze Cast Magnesium Alloy AM60. , 2012, , 561-564.		0
50	Numerical simulation of heat transfer in pressurized solidification of Magnesium alloy AM50. <i>Heat and Mass Transfer</i> , 2011, 47, 1241-1249.	2.1	7
51	Determination of heat transfer coefficients by extrapolation and numerical inverse methods in squeeze casting of magnesium alloy AM60. <i>Journal of Materials Processing Technology</i> , 2011, 211, 1432-1440.	6.3	49
52	Influence of applied pressure on microstructure and tensile properties of squeeze cast magnesium Mg-Al-Ca alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 3589-3593.	5.6	71
53	Effect of Fiber Reinforcement on Corrosion Resistance of Mg AM60 Alloy-based Composites in NaCl Solutions. , 2011, , 469-474.		1
54	Development of Hybrid Magnesium-based Composites. , 2010, , .		7

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55	A Kinetic Model for Dissolution of Second Phases in Die-Cast Mg Alloy AM50. Defect and Diffusion Forum, 2010, 297-301, 111-116.	0.4	2
56	Casting Design through Multi-objective Optimization. , 2009, , .		1
57	MICROSTRUCTURE AND TENSILE PROPERTIES OF SQUEEZE CAST Mg-Al-Ca ALLOYS. International Journal of Modern Physics B, 2009, 23, 771-776.	2.0	3
58	INFLUENCE OF ELECTROLYTIC PLASMA OXIDATION COATING ON TENSILE BEHAVIOR OF DIE-CAST AM50 ALLOY SUBJECTED TO SALT CORROSION. International Journal of Modern Physics B, 2009, 23, 960-965.	2.0	9
59	A Correlation Analysis of Cooling-Induced Temperature Changes. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2009, 131, .	2.2	0
60	The effect of cooling rates on the refinement of microstructure and the nanoscale indentation creep behavior of Mg-Al-Ca alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 512, 58-66.	5.6	23
61	The hydrolysis behaviour of Mg ₂ Ni and Mg ₂ NiH ₄ in water or a 6M KOH solution and its application to Ni nanoparticles synthesis. Journal of Alloys and Compounds, 2009, 470, 539-543.	5.5	13
62	Multi-objective optimal gating and riser design for metal-casting. , 2009, , .		5
63	A fuzzy PID thermal control system for casting dies. Journal of Intelligent Manufacturing, 2008, 19, 375-382.	7.3	8
64	Numerical optimization of gating system parameters for a magnesium alloy casting with multiple performance characteristics. Journal of Materials Processing Technology, 2008, 199, 256-264.	6.3	57
65	Tensile behaviour and fracture characteristics of die cast magnesium alloy AM50. Journal of Materials Processing Technology, 2008, 201, 364-368.	6.3	27
66	Microstructure and nano-scale mechanical behavior of Mg-Al and Mg-Al-Ca alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 473, 16-27.	5.6	56
67	Effect of Ca additions on microstructure and microhardness of an as-cast Mg-5.0wt.% Al alloy. Materials Letters, 2008, 62, 381-384.	2.6	70
68	Robust control for axial-flow compressor - An algorithm. , 2008, , .		0
69	Influence of Solute Content and Secondary Phases on the Nano-Creep Behavior of Mg-Al-Ca Alloys. Key Engineering Materials, 2007, 345-346, 605-608.	0.4	0
70	Performance of a real-time local thermal management system for casting dies with multiple cooling channels. International Journal of Manufacturing Research, 2007, 2, 74.	0.2	1
71	A Fuzzy PID Thermal Control System for Die Casting Processes. , 2007, , .		3
72	Strain-Hardening and Fracture Behavior of Die Cast Magnesium Alloy AM50. Research Letters in Materials Science, 2007, 2007, 1-5.	0.2	6

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73	Optimization of the electrolytic plasma oxidation processes for corrosion protection of magnesium alloy AM50 using the Taguchi method. Journal of Materials Processing Technology, 2007, 182, 58-64.	6.3	73
74	Pressurized solidification of magnesium alloy AM50A. Journal of Materials Processing Technology, 2007, 191, 247-250.	6.3	24
75	Thermal analysis of casting dies with local temperature controller. International Journal of Advanced Manufacturing Technology, 2007, 33, 277-284.	3.0	7
76	Microstructure and Tensile Properties of Squeeze Cast Magnesium Alloy AM50. Journal of Materials Engineering and Performance, 2005, 14, 539-545.	2.5	45
77	Effect of Section Thicknesses on Tensile Behavior and Microstructure of High Pressure Die Cast Magnesium Alloy AM50. Materials Science Forum, 2005, 475-479, 463-468.	0.3	11
78	Study on High Strain Rate Superplasticity of A 6061Al Alloy Composite Reinforced With 30 Vol.% AlN Particulate. Journal of Materials Engineering and Performance, 2004, 13, 200-207.	2.5	8
79	Effect of cooling water flow rates on local temperatures and heat transfer of casting dies. Journal of Materials Processing Technology, 2004, 148, 57-67.	6.3	22
80	Potential Magnesium Alloys for High Temperature Die Cast Automotive Applications: A Review. Materials and Manufacturing Processes, 2003, 18, 687-717.	4.7	125
81	Mathematical modelling of magnesium reduction in a novel vertical Pidgeon process. Modelling and Simulation in Materials Science and Engineering, 2002, 10, 413-423.	2.0	23
82	Numerical simulation of squeeze cast magnesium alloy AZ91D. Modelling and Simulation in Materials Science and Engineering, 2002, 10, 1-11.	2.0	47
83	Die Castability Assessment of Magnesium Alloys for High Temperature Applications: Part 1 of 2. , 2000, , .		19
84	Grain microstructure evolution of Mg (AM50A)/SiCp metal matrix composites. Scripta Materialia, 1998, 39, 1015-1022.	5.2	23
85	Mathematical modelling of solidification and melting: a review. Modelling and Simulation in Materials Science and Engineering, 1996, 4, 371-396.	2.0	365
86	Creep and Bolt Load Retention Behavior of Die Cast Magnesium Alloys for High Temperature Applications: Part 2 of 2. , 0, , .		7
87	Wear Protection of Al383/SiO2 Metal Matrix Composites by Plasma Electrolytic Oxidation (PEO) Process. SAE International Journal of Materials and Manufacturing, 0, 3, 55-62.	0.3	4
88	Mathematical Modeling of Squeeze Casting of Magnesium Alloy AM50. Defect and Diffusion Forum, 0, 297-301, 105-110.	0.4	0
89	Solidification of Discontinuous Al ₂ O ₃ ; Fiber Reinforced Magnesium (AM60) Matrix Composite. Defect and Diffusion Forum, 0, 312-315, 277-282.	0.4	10
90	Fusion Welding of Vacuum High Pressure Die Cast Aluminum Alloy A356 and Wrought Alloy 6061. SAE International Journal of Materials and Manufacturing, 0, 6, 299-303.	0.3	3

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91	Tensile Properties and Microstructure of Joined Vacuum Die Cast Aluminum Alloy A356 (T6) and Wrought Alloy 6061. <i>Advanced Materials Research</i> , 0, 939, 90-97.	0.3	6
92	Characterization of Local Cavity Pressures in Squeeze Casting of Magnesium Alloy AM50. <i>Advanced Materials Research</i> , 0, 936, 1666-1670.	0.3	0
93	Effect of Ca Contents on Tensile Properties of Squeeze Cast Mg-Al-Ca Alloys. <i>Materials Science Forum</i> , 0, 859, 111-117.	0.3	1
94	Influence of Wall Stocks on Mechanical Properties of HPDC AZ91. <i>Key Engineering Materials</i> , 0, 793, 41-45.	0.4	4
95	Effect of Sr and Ni Addition on Microstructure, Tensile Behavior and Electrical Conductivity of Squeeze Cast Al-6Si-3Cu Al Alloy. <i>Key Engineering Materials</i> , 0, 921, 3-14.	0.4	3