

Zhengyuan Gao

List of Publications by Year in descending order

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26
papers

618
citations

840776

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26
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562
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal performance of thermal management system coupling composite phase change material to water cooling with double s-shaped micro-channels for prismatic lithium-ion battery. <i>Journal of Energy Storage</i> , 2022, 45, 103490.	8.1	21
2	A novel current-carrying lubrication in electric hot incremental forming of Ti-6Al-4V titanium sheet. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022, 44, 1.	1.6	3
3	The Corrosion Resistance of Graphene-Modified Oily Epoxy Coating on AZ31 Magnesium Alloys. <i>Frontiers in Materials</i> , 2021, 8, .	2.4	0
4	The Corrosion Resistance of Al Film on AZ31 Magnesium Alloys by Magnetron Sputtering. <i>Metals</i> , 2021, 11, 1522.	2.3	6
5	Study on Corrosion Resistance of AZ31 Magnesium Alloy Coated with Graphene Modified Epoxy and Polyurethane Coatings. <i>International Journal of Electrochemical Science</i> , 2021, 16, 211038.	1.3	2
6	Saccharum Officinarum Leaf Extract as Corrosion Inhibitor of Copper Corrosion in Sulphuric Acid Solution: Experiments and Theoretical Calculations. <i>International Journal of Electrochemical Science</i> , 2021, 16, 211126.	1.3	2
7	Numerical Investigation on Vibration Performance of an Improved Switched Reluctance Machine with Double Auxiliary Slots. <i>Shock and Vibration</i> , 2021, 2021, 1-14.	0.6	0
8	Synthesis of γ -Al ₂ O ₃ -supported Pt nanoparticles using Al-based metal-organic framework as medium and their catalytic performance for total propene oxidation and selective nitrobenzene hydrogenation. <i>Materials Chemistry and Physics</i> , 2020, 240, 122146.	4.0	13
9	Effect of Titanium on Microstructure, Texture, and Mechanical Property of As-Extruded Mg-Sn Alloy. <i>Frontiers in Materials</i> , 2020, 7, .	2.4	3
10	Effects of Process Parameters on the Thickness Uniformity in Two-Point Incremental Forming (TPIF) with a Positive Die for an Irregular Stepped Part. <i>Materials</i> , 2020, 13, 2634.	2.9	5
11	Numerical investigation on integrated thermal management for a lithium-ion battery module with a composite phase change material and liquid cooling. <i>Applied Thermal Engineering</i> , 2019, 163, 114345.	6.0	98
12	Effect of heat treatment under vacuum on structure and visible-light photocatalytic activity of nano-TiO ₂ . <i>RSC Advances</i> , 2019, 9, 32691-32698.	3.6	6
13	Effect of high content of manganese on microstructure, texture and mechanical properties of magnesium alloy. <i>Materials Characterization</i> , 2018, 136, 310-317.	4.4	46
14	Microstructure and Deformation Mechanism of AZ31 Magnesium Alloy Under Dynamic Strain Rate. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 6189-6195.	2.5	13
15	Introducing HfO ₂ nanoparticles into Bi-Se-Te matrix by cryogenic ball milling for enhanced thermoelectric figure of merit. <i>Ceramics International</i> , 2018, 44, 20586-20590.	4.8	1
16	Microstructural characterization of dynamic recrystallization in hot deformed LDX2101. <i>International Journal of Materials Research</i> , 2018, 109, 485-493.	0.3	1
17	Achieving High Strength and Good Ductility in As-Extruded Mg-Gd-Y-Zn Alloys by Ce Micro-Alloying. <i>Materials</i> , 2018, 11, 102.	2.9	7
18	Effect of aluminium on the microstructure and mechanical properties of as-cast magnesium-manganese alloys. <i>Materials Science and Technology</i> , 2017, 33, 2086-2096.	1.6	14

#	ARTICLE	IF	CITATIONS
19	Enhancing Thermal Conductivity of Mg-Sn Alloy Sheet by Cold Rolling and Aging. Journal of Materials Engineering and Performance, 2016, 25, 2356-2363.	2.5	8
20	Effect of Cu/Zn on microstructure and mechanical properties of extruded Mg-Sn alloys. Materials Science and Technology, 2016, 32, 1240-1248.	1.6	11
21	Rotating Machine Fault Diagnosis Based on Optimal Morphological Filter and Local Tangent Space Alignment. Shock and Vibration, 2015, 2015, 1-9.	0.6	13
22	High strength and superior ductility of an ultra-fine grained magnesium-manganese alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 648, 202-207.	5.6	85
23	Enhancing mechanical properties of Mg-Sn alloys by combining addition of Ca and Zn. Materials and Design, 2015, 83, 736-744.	7.0	118
24	Rotating Machine Fault Diagnosis Based on Locality Preserving Projection and Back Propagation Neural Network-Support Vector Machine Model. Measurement and Control, 2015, 48, 211-216.	1.8	21
25	Bearing degradation state recognition based on kernel PCA and wavelet kernel SVM. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 2827-2834.	2.1	7
26	Thermal and electrical conductivity of binary magnesium alloys. Journal of Materials Science, 2014, 49, 3107-3124.	3.7	114