

# Zhengyuan Gao

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

618  
citations

840776

11  
h-index

610901

24  
g-index

26  
all docs

26  
docs citations

26  
times ranked

562  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Enhancing mechanical properties of Mg-Sn alloys by combining addition of Ca and Zn. <i>Materials and Design</i> , 2015, 83, 736-744.   | 7.0 | 118       |
| 2  | Thermal and electrical conductivity of binary magnesium alloys. <i>Journal of Materials Science</i> , 2014, 49, 3107-3124.   | 3.7 | 114       |
| 3  | 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        |
| 4  | High strength and superior ductility of an ultra-fine grained magnesium-manganese alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 648, 202-207.   | 5.6 | 85        |
| 5  | 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        |
| 6  | Rotating Machine Fault Diagnosis Based on Locality Preserving Projection and Back Propagation Neural Network-Support Vector Machine Model. <i>Measurement and Control</i> , 2015, 48, 211-216.   | 1.8 | 21        |
| 7  | 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        |
| 8  | 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        |
| 9  | Rotating Machine Fault Diagnosis Based on Optimal Morphological Filter and Local Tangent Space Alignment. <i>Shock and Vibration</i> , 2015, 2015, 1-9.  | 0.6 | 13        |
| 10 | 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        |
| 11 | Synthesis of $\gamma$ -Al <sub>2</sub> O <sub>3</sub> -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        |
| 12 | Effect of Cu/Zn on microstructure and mechanical properties of extruded Mg-Sn alloys. <i>Materials Science and Technology</i> , 2016, 32, 1240-1248.   | 1.6 | 11        |
| 13 | Enhancing Thermal Conductivity of Mg-Sn Alloy Sheet by Cold Rolling and Aging. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 2356-2363.  | 2.5 | 8         |
| 14 | Bearing degradation state recognition based on kernel PCA and wavelet kernel SVM. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2015, 229, 2827-2834.   | 2.1 | 7         |
| 15 | 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         |
| 16 | Effect of heat treatment under vacuum on structure and visible-light photocatalytic activity of nano-TiO <sub>2</sub> . <i>RSC Advances</i> , 2019, 9, 32691-32698.  | 3.6 | 6         |
| 17 | The Corrosion Resistance of Al Film on AZ31 Magnesium Alloys by Magnetron Sputtering. <i>Metals</i> , 2021, 11, 1522.  | 2.3 | 6         |
| 18 | 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         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Effect of Titanium on Microstructure, Texture, and Mechanical Property of As-Extruded Mg-3Sn Alloy. <i>Frontiers in Materials</i> , 2020, 7, .  | 2.4 | 3         |
| 20 | 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         |
| 21 | 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         |
| 22 | 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         |
| 23 | Introducing HfO <sub>2</sub> 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         |
| 24 | Microstructural characterization of dynamic recrystallization in hot deformed LDX2101. <i>International Journal of Materials Research</i> , 2018, 109, 485-493.   | 0.3 | 1         |
| 25 | The Corrosion Resistance of Graphene-Modified Oily Epoxy Coating on AZ31 Magnesium Alloys. <i>Frontiers in Materials</i> , 2021, 8, .   | 2.4 | 0         |
| 26 | 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         |