

Su-Jun Wu

List of Publications by Year in descending order

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papers

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times ranked

733
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| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Integrating tough <i>Antheraea pernyi</i> silk and strong carbon fibres for impact-critical structural composites. <i>Nature Communications</i> , 2019, 10, 3786. | 12.8 | 70 |
| 2 | Processing, mechanical properties and bio-applications of silk fibroin-based high-strength hydrogels. <i>Acta Biomaterialia</i> , 2021, 125, 57-71. | 8.3 | 67 |
| 3 | Facile self-assembly synthesis of Fe^{3+} -Fe ₂ O ₃ /graphene oxide for enhanced photo-Fenton reaction. <i>Environmental Pollution</i> , 2019, 248, 229-237. | 7.5 | 59 |
| 4 | Study on the optimizing mechanisms of superior comprehensive properties of a hot spray formed Al-Zn-Mg-Cu alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 742, 102-108. | 5.6 | 43 |
| 5 | Effect of hot extrusion and optimal solution treatment on microstructure and properties of spray-formed Al-11.3Zn-2.65Mg-1Cu alloy. <i>Journal of Alloys and Compounds</i> , 2019, 797, 558-565. | 5.5 | 40 |
| 6 | Phase formation and strengthening mechanisms in a dual-phase nanocrystalline CrMnFeV Ti high-entropy alloy with ultrahigh hardness. <i>Journal of Alloys and Compounds</i> , 2018, 744, 552-560. | 5.5 | 37 |
| 7 | Effect of stress distribution on the tool joint failure of internal and external upset drill pipes. <i>Materials & Design</i> , 2013, 52, 308-314. | 5.1 | 34 |
| 8 | Enhancing the Mechanical Toughness of Epoxy-Resin Composites Using Natural Silk Reinforcements. <i>Scientific Reports</i> , 2017, 7, 11939. | 3.3 | 32 |
| 9 | Microstructure and Mechanical Properties of Friction Welding Joints with Dissimilar Titanium Alloys. <i>Metals</i> , 2016, 6, 108. | 2.3 | 27 |
| 10 | Pulsed Laser Beam Welding of Pd ₄₃ Cu ₂₇ Ni ₁₀ P ₂₀ Bulk Metallic Glass. <i>Scientific Reports</i> , 2017, 7, 7989. | 3.3 | 26 |
| 11 | Influencing mechanisms of heat treatments on microstructure and comprehensive properties of Al-Zn-Mg-Cu alloy formed by spray forming. <i>Journal of Materials Research and Technology</i> , 2020, 9, 6850-6858. | 5.8 | 26 |
| 12 | Effects of temperature and atmosphere on microstructural evolution and mechanical properties of KD-II SiC fibers. <i>Ceramics International</i> , 2020, 46, 24424-24434. | 4.8 | 24 |
| 13 | Study on microstructure and mechanical behavior of dissimilar Ti17 friction welds. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 596, 32-40. | 5.6 | 22 |
| 14 | Microstructural characteristics and properties of spray formed Zn-rich Al-Zn-Mg-Cu alloy under various aging conditions. <i>Materials Characterization</i> , 2020, 161, 110133. | 4.4 | 22 |
| 15 | Highly Stretchable and Tough Physical Silk Fibroin-Based Double Network Hydrogels. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900389. | 3.9 | 21 |
| 16 | On the Cu precipitation behavior in thermo-mechanically embrittlement processed low copper reactor pressure vessel model steel. <i>Materials & Design</i> , 2013, 47, 551-556. | 5.1 | 19 |
| 17 | High strength and conductivity copper matrix composites reinforced by in-situ graphene through severe plastic deformation processes. <i>Journal of Alloys and Compounds</i> , 2021, 851, 156703. | 5.5 | 19 |
| 18 | High strength and conductivity copper/graphene composites prepared by severe plastic deformation of graphene coated copper powder. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 826, 141983. | 5.6 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Prediction of Contact Fatigue Life of Alloy Cast Steel Rolls Using Back-Propagation Neural Network. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 3631-3638. | 2.5 | 14 |
| 20 | Influence of thermo-mechanical embrittlement processing on microstructure and mechanical behavior of a pressure vessel steel. <i>Materials and Design</i> , 2016, 89, 759-769. | 7.0 | 14 |
| 21 | A new driving force parameter for fatigue growth of multiple cracks. <i>International Journal of Fatigue</i> , 2017, 96, 10-16. | 5.7 | 14 |
| 22 | Effects of service thermal cycles on the microstructure and mechanical property of K4648 superalloy. <i>Journal of Alloys and Compounds</i> , 2016, 683, 533-541. | 5.5 | 13 |
| 23 | Controlled Cryogelation and Catalytic Cross-Linking Yields Highly Elastic and Robust Silk Fibroin Scaffolds. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 4512-4522. | 5.2 | 13 |
| 24 | Effect of Heavy Ion Irradiation Dosage on the Hardness of SA508-IV Reactor Pressure Vessel Steel. <i>Metals</i> , 2017, 7, 25. | 2.3 | 12 |
| 25 | Microstructure evolution and residual life assessment of service exposed Cr35Ni45 radiant tube alloy. <i>Engineering Failure Analysis</i> , 2018, 88, 63-72. | 4.0 | 12 |
| 26 | The relationship between crosslinking structure and silk fibroin scaffold performance for soft tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2021, 182, 1268-1277. | 7.5 | 12 |
| 27 | Effect of Cryogenic Treatment on Microstructure and Mechanical Properties of 0Cr12Mn5Ni4Mo3Al Steel. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 5079-5084. | 2.5 | 11 |
| 28 | High temperature behavior of a diffusion barrier coating evolved from ZrO ₂ precursor layer. <i>Surface and Coatings Technology</i> , 2019, 357, 384-392. | 4.8 | 10 |
| 29 | Influence of different rolling processes on microstructure and strength of the Al-Cu-Li alloy AA2195. <i>Progress in Natural Science: Materials International</i> , 2022, 32, 87-95. | 4.4 | 9 |
| 30 | Evolution of microstructure and microhardness of the weld simulated heat-affected zone of Ti-22Al-25Nb (at.%) alloy with continuous cooling rate. <i>Journal of Alloys and Compounds</i> , 2018, 744, 487-492. | 5.5 | 8 |
| 31 | Effect of Austempering-Partitioning on the Bainitic Transformation and Mechanical Properties of a High-Carbon Steel. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 614-618. | 2.9 | 7 |
| 32 | Effect of post weld heat treatment on microstructure and fracture toughness of friction welded joint. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 1347-1351. | 1.0 | 6 |
| 33 | Harnessing Stiffness and Anticorrosion of Chromium in an Artificial SEI to Achieve a Longevous Lithium-Metal Anode. <i>ACS Applied Energy Materials</i> , 2021, 4, 5043-5049. | 5.1 | 6 |
| 34 | Microstructure evolution of an ultra-high strength metal alloy with tempering temperature. <i>Rare Metals</i> , 2012, 31, 442-445. | 7.1 | 5 |
| 35 | Microstructural evolution of high manganese steel solidified under superhigh pressure. <i>Materials Letters</i> , 2012, 70, 7-10. | 2.6 | 5 |
| 36 | Effect of plasticity constraint on structural integrity assessment of pressure vessel welds. <i>International Journal of Pressure Vessels and Piping</i> , 2015, 134, 72-81. | 2.6 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Fatigue failure analysis of rotor compressor blades concerning the effect of rotating stall and surge. <i>Engineering Failure Analysis</i> , 2016, 68, 1-9. | 4.0 | 5 |
| 38 | Microstructure and mechanical behavior of an annealed automatic gas tungsten arc weld joint of TA16 and TC4 titanium alloys. <i>Materials Research Express</i> , 2019, 6, 056523. | 1.6 | 5 |
| 39 | Structure and moisture effect on the mechanical behavior of a natural biocomposite, buffalo horn sheath. <i>Composites Communications</i> , 2021, 26, 100748. | 6.3 | 5 |
| 40 | Microstructure and mechanical properties of 2219 aluminum alloy VPTIG welds during cyclic thermal treatment. <i>Rare Metals</i> , 2022, 41, 3539-3545. | 7.1 | 4 |
| 41 | Effect of strain rate and temperature on the serration behavior of SA508-III RPV steel in the dynamic strain aging process. <i>Journal of Iron and Steel Research International</i> , 2018, 25, 767-775. | 2.8 | 3 |
| 42 | Fatigue Crack Growth Behavior of Different Zones in an Annealed Automatic Gas Tungsten Arc Weld Joint of TA16 and TC4 Titanium Alloys. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2020, 35, 1090-1097. | 1.0 | 3 |
| 43 | Effect of pre-deformation enhanced thermal aging on precipitation and microhardness of a reactor pressure vessel steel. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2013, 28, 592-597. | 1.0 | 2 |
| 44 | Serrated flow behavior of GH536 superalloy under different loading rates at room temperature. <i>Rare Metals</i> , 0, , 1. | 7.1 | 2 |
| 45 | Effects of Solidification Pressure and Heat Treatment on the Microstructure and Micro-Hardness of AlSi9CuMg Alloy. <i>Materials</i> , 2019, 12, 2229. | 2.9 | 2 |
| 46 | Influence of High-Temperature Oxidation and Test Conditions on the Dynamic Mechanical Properties of 2.5D SiCf/SiCm Composites. <i>Materials</i> , 2021, 14, 145. | 2.9 | 2 |
| 47 | Influence of Modified Microstructures and Characterized Defects on Tensile Properties and Anisotropy of Selective Laser Melting-Produced Ti6Al4V Alloys. <i>Journal of Materials Engineering and Performance</i> , 0, , . | 2.5 | 2 |
| 48 | In-situ observation of dark phase precipitation during heating and soaking process of a high nickel steel. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015, 30, 152-155. | 1.0 | 1 |
| 49 | Effect of thermal cycles on the laser beam welded joint of AA2060 alloys. <i>Journal of Materials Research</i> , 2018, 33, 3439-3448. | 2.6 | 1 |
| 50 | Fracture toughness assessment at different regions in an inertial friction welded Ti-5Al-2Sn-2Zr-4Mo-4Cr alloy plate. <i>International Journal of Materials Research</i> , 2021, . | 0.3 | 1 |
| 51 | Anisotropic Composition and Mechanical Behavior of a Natural Thin-Walled Composite: Eagle Feather Shaft. <i>Polymers</i> , 2022, 14, 309. | 4.5 | 1 |
| 52 | Effect of high pressure on the melting and solidifying behavior of a railway frog steel. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017, 32, 921-925. | 1.0 | 0 |
| 53 | Influence of Quasi-Beta Heat Treatment on Acoustic Behaviors of Ultrasonic Inspection of TC4-DT Alloy. , 2020, , . | | 0 |