Su-Jun Wu

List of Publications by Year
in descending order

53 papers	819 citations	516710 16 h-index	552781 26 g-index
54 all docs	54 docs citations	54 times ranked	733 citing authors

#	Article	IF	Citations
1	Microstructure and mechanical properties of 2219 aluminum alloy VPTIG welds during cyclic thermal treatment. Rare Metals, 2022, 41, 3539-3545.	7.1	4
2	Influence of different rolling processes on microstructure and strength of the Alâ€“Cuâ€“Li alloy AA2195. Progress in Natural Science: Materials International, 2022, 32, 87-95.	4.4	9
3	Anisotropic Composition and Mechanical Behavior of a Natural Thin-Walled Composite: Eagle Feather Shaft. Polymers, 2022, 14, 309.	4.5	1
4	High strength and conductivity copper matrix composites reinforced by in-situ graphene through severe plastic deformation processes. Journal of Alloys and Compounds, 2021, 851, 156703.	5.5	19
5	Fracture toughness assessment at different regions in an inertial friction welded Ti-5Al-2Sn-2Zr-4Mo-4Cr alloy plate. International Journal of Materials Research, 2021, .	0.3	1
6	Processing, mechanical properties and bio-applications of silk fibroin-based high-strength hydrogels. Acta Biomaterialia, 2021, 125, 57-71.	8.3	67
7	Harnessing Stiffness and Anticorrosion of Chromium in an Artificial SEI to Achieve a Longevous Lithium-Metal Anode. ACS Applied Energy Materials, 2021, 4, 5043-5049.	5.1	6
8	The relationship between crosslinking structure and silk fibroin scaffold performance for soft tissue engineering. International Journal of Biological Macromolecules, 2021, 182, 1268-1277.	7.5	12
9	Structure and moisture effect on the mechanical behavior of a natural biocomposite, buffalo horn sheath. Composites Communications, 2021, 26, 100748.	6.3	5
10	High strength and conductivity copper/graphene composites prepared by severe plastic deformation of graphene coated copper powder. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 826, 141983.	5.6	16
11	Influence of High-Temperature Oxidation and Test Conditions on the Dynamic Mechanical Properties of 2.5D SiCf/SiCm Composites. Materials, 2021, 14, 145.	2.9	2
12	Influencing mechanisms of heat treatments on microstructure and comprehensive properties of Alâ€“Znâ€“Mgâ€“Cu alloy formed by spray forming. Journal of Materials Research and Technology, 2020, 9, 6850-6858.	5.8	26
13	Effects of temperature and atmosphere on microstructural evolution and mechanical properties of KD-II SiC fibers. Ceramics International, 2020, 46, 24424-24434.	4.8	24
14	Controlled Cryogelation and Catalytic Cross-Linking Yields Highly Elastic and Robust Silk Fibroin Scaffolds. ACS Biomaterials Science and Engineering, 2020, 6, 4512-4522.	5.2	13
15	Microstructural characteristics and properties of spray formed Zn-rich Al-Zn-Mg-Cu alloy under various aging conditions. Materials Characterization, 2020, 161, 110133.	4.4	22
16	Fatigue Crack Growth Behavior of Different Zones in an Annealed Automatic Gas Tungsten Arc Weld Joint of TA16 and TC4 Titanium Alloys. Journal Wuhan University of Technology, Materials Science Edition, 2020, 35, 1090-1097.	1.0	3
17	Influence of Quasi-Beta Heat Treatment on Acoustic Behaviors of Ultrasonic Inspection of TC4-DT Alloy. , 2020, , .		0
18	Integrating tough Antheraea pernyi silk and strong carbon fibres for impact-critical structural composites. Nature Communications, 2019, 10, 3786.	12.8	70

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19	Effects of Solidification Pressure and Heat Treatment on the Microstructure and Micro-Hardness of AlSi9CuMg Alloy. Materials, 2019, 12, 2229.	2.9	2
20	Highly Stretchable and Tough Physical Silk Fibroinâ€"Based Double Network Hydrogels. Macromolecular Rapid Communications, 2019, 40, e1900389.	3.9	21
21	Facile self-assembly synthesis of Î³-Fe2O3 /graphene oxide for enhanced photo-Fenton reaction. Environmental Pollution, 2019, 248, 229-237.	7.5	59
22	Effect of hot extrusion and optimal solution treatment on microstructure and properties of spray-formed Al-11.3Zn-2.65Mg-1Cu alloy. Journal of Alloys and Compounds, 2019, 797, 558-565.	5.5	40
23	Microstructure and mechanical behavior of an annealed automatic gas tungsten arc weld joint of TA16 and TC4 titanium alloys. Materials Research Express, 2019, 6, 056523.	1.6	5
24	Study on the optimizing mechanisms of superior comprehensive properties of a hot spray formed Al-Zn-Mg-Cu alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 742, 102-108.	5.6	43
25	High temperature behavior of a diffusion barrier coating evolved from ZrO2 precursor layer. Surface and Coatings Technology, 2019, 357, 384-392.	4.8	10
26	Evolution of microstructure and microhardness of the weld simulated heat-affected zone of Ti-22Al-25Nb (at.%) alloy with continuous cooling rate. Journal of Alloys and Compounds, 2018, 744, 487-492.	5.5	8
27	Phase formation and strengthening mechanisms in a dual-phase nanocrystalline CrMnFeVTi high-entropy alloy with ultrahigh hardness. Journal of Alloys and Compounds, 2018, 744, 552-560.	5.5	37
28	Microstructure evolution and residual life assessment of service exposed Cr35Ni45 radiant tube alloy. Engineering Failure Analysis, 2018, 88, 63-72.	4.0	12
29	Effect of strain rate and temperature on the serration behavior of SA508-III RPV steel in the dynamic strain aging process. Journal of Iron and Steel Research International, 2018, 25, 767-775.	2.8	3
30	Effect of thermal cycles on the laser beam welded joint of AA2060 alloys. Journal of Materials Research, 2018, 33, 3439-3448.	2.6	1
31	Effect of Cryogenic Treatment on Microstructure and Mechanical Properties of 0Cr12Mn5Ni4Mo3Al Steel. Journal of Materials Engineering and Performance, 2017, 26, 5079-5084.	2.5	11
32	Enhancing the Mechanical Toughness of Epoxy-Resin Composites Using Natural Silk Reinforcements. Scientific Reports, 2017, 7, 11939.	3.3	32
33	Pulsed Laser Beam Welding of Pd43Cu27Ni10P20 Bulk Metallic Glass. Scientific Reports, 2017, 7, 7989.	3.3	26
34	Effect of high pressure on the melting and solidifying behavior of a railway frog steel. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 921-925.	1.0	0
35	A new driving force parameter for fatigue growth of multiple cracks. International Journal of Fatigue, 2017, 96, 10-16.	5.7	14
36	Effect of Heavy Ion Irradiation Dosage on the Hardness of SA508-IV Reactor Pressure Vessel Steel. Metals, 2017, 7, 25.	2.3	12

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37	Microstructure and Mechanical Properties of Friction Welding Joints with Dissimilar Titanium Alloys. Metals, 2016, 6, 108.	2.3	27
38	Effect of post weld heat treatment on microstructure and fracture toughness of friction welded joint. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 1347-1351.	1.0	6
39	Fatigue failure analysis of rotor compressor blades concerning the effect of rotating stall and surge. Engineering Failure Analysis, 2016, 68, 1-9.	4.0	5
40	Effects of service thermal cycles on the microstructure and mechanical property of K4648 superalloy. Journal of Alloys and Compounds, 2016, 683, 533-541.	5.5	13
41	Influence of thermo-mechanical embrittlement processing on microstructure and mechanical behavior of a pressure vessel steel. Materials and Design, 2016, 89, 759-769.	7.0	14
42	In-situ observation of dark phase precipitation during heating and soaking process of a high nickel steel. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 152-155.	1.0	1
43	Effect of Austemperingâ€“Partitioning on the Bainitic Transformation and Mechanical Properties of a High-Carbon Steel. Acta Metallurgica Sinica (English Letters), 2015, 28, 614-618.	2.9	7
44	Effect of plasticity constraint on structural integrity assessment of pressure vessel welds. International Journal of Pressure Vessels and Piping, 2015, 134, 72-81.	2.6	5
45	Study on microstructure and mechanical behavior of dissimilar Ti17 friction welds. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 596, 32-40.	5.6	22
46	On the Cu precipitation behavior in thermo-mechanically embrittlement processed low copper reactor pressure vessel model steel. Materials & Design, 2013, 47, 551-556.	5.1	19
47	Effect of stress distribution on the tool joint failure of internal and external upset drill pipes. Materials & Design, 2013, 52, 308-314.	5.1	34
48	Effect of pre-deformation enhanced thermal aging on precipitation and microhardness of a reactor pressure vessel steel. Journal Wuhan University of Technology, Materials Science Edition, 2013, 28, 592-597.	1.0	2
49	Prediction of Contact Fatigue Life of Alloy Cast Steel Rolls Using Back-Propagation Neural Network. Journal of Materials Engineering and Performance, 2013, 22, 3631-3638.	2.5	14
50	Microstructure evolution of an ultra-high strength metal alloy with tempering temperature. Rare Metals, 2012, 31, 442-445.	7.1	5
51	Microstructural evolution of high manganese steel solidified under superhigh pressure. Materials Letters, 2012, 70, 7-10.	2.6	5
52	Serrated flow behavior of GH536 superalloy under different loading rates at room temperature. Rare Metals, 0, , 1.	7.1	2
53	Influence of Modified Microstructures and Characterized Defects on Tensile Properties and Anisotropy of Selective Laser Melting-Produced Ti6Al4V Alloys. Journal of Materials Engineering and Performance, 0, , .	2.5	2