

# Jun Shen

## List of Publications by Year in descending order

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73  
papers

1,382  
citations

331670

21  
h-index

377865

34  
g-index

73  
all docs

73  
docs citations

73  
times ranked

1269  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of minor Cu and Zn additions on the thermal, microstructure and tensile properties of Sn-Bi-based solder alloys. <i>Journal of Alloys and Compounds</i> , 2014, 614, 63-70.	5.5	113
2	The Solvent Induced Inter-Dimensional Phase Transformations of Cobalt Zeolitic-Imidazolate Frameworks. <i>Chemistry - A European Journal</i> , 2017, 23, 10638-10643.	3.3	95
3	Effect of heat input on the microstructure and mechanical properties of tungsten inert gas arc butt-welded AZ61 magnesium alloy plates. <i>Materials Characterization</i> , 2009, 60, 1583-1590.	4.4	71
4	Growth behaviors of intermetallic compounds at Sn-3Ag-0.5Cu/Cu interface during isothermal and non-isothermal aging. <i>Journal of Alloys and Compounds</i> , 2013, 574, 451-458.	5.5	62
5	Effects of aging treatment and heat input on the microstructures and mechanical properties of TIG-welded 6061-T6 alloy joints. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013, 20, 259-265.	4.9	53
6	A versatile dopamine-induced intermediate layer for polyether imides (PEI) deposition on magnesium to render robust and high inhibition performance. <i>Corrosion Science</i> , 2017, 122, 32-40.	6.6	50
7	Three-dimensional hierarchical nickel-cobalt-sulfide nanostructures for high performance electrochemical energy storage electrodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18335-18341.	10.3	49
8	Abnormal macropore formation during double-sided gas tungsten arc welding of magnesium AZ91D alloy. <i>Materials Characterization</i> , 2008, 59, 1059-1065.	4.4	48
9	Effects of nano-particles strengthening activating flux on the microstructures and mechanical properties of TIG welded AZ31 magnesium alloy joints. <i>Materials &amp; Design</i> , 2015, 81, 31-38.	5.1	44
10	Effects of welding speed on the microstructures and mechanical properties of laser welded AZ61 magnesium alloy joints. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 578, 303-309.	5.6	40
11	Effects of TiO <sub>2</sub> coating on the microstructures and mechanical properties of tungsten inert gas welded AZ31 magnesium alloy joints. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 7276-7284.	5.6	36
12	Effects of minor Bi, Ni on the wetting properties, microstructures, and shear properties of Sn-0.7Cu lead-free solder joints. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 1572-1580.	2.2	34
13	Enhanced corrosion resistance of magnesium alloy by a silane-based solution treatment after an in-situ formation of the Mg(OH) <sub>2</sub> layer. <i>Applied Surface Science</i> , 2016, 365, 268-274.	6.1	34
14	In-vitro degradation and cytocompatibility of a silane/Mg(OH) <sub>2</sub> composite coating on AZ31 alloy by spin coating. <i>Journal of Alloys and Compounds</i> , 2017, 714, 186-193.	5.5	32
15	Effects of heating process on the microstructures and tensile properties of friction stir spot welded AZ31 magnesium alloy plates. <i>Materials &amp; Design</i> , 2011, 32, 5033-5037.	5.1	31
16	A rapid approach to manufacture superhydrophobic coating on magnesium alloy by one-step method. <i>Surface and Coatings Technology</i> , 2018, 334, 90-97.	4.8	28
17	Microstructure and mechanical properties of TIG/A-TIG welded AZ61/ZK60 magnesium alloy joints. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 1864-1872.	4.2	26
18	Influence of Cu micro/nano-particles mixture and surface roughness on the shear strength of Cu-Cu joints. <i>Journal of Materials Processing Technology</i> , 2018, 257, 250-256.	6.3	25

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19	Improvement of oxidation resistance and bonding strength of Cu nanoparticles solder joints of Cu-Cu bonding by phosphating the nanoparticle. <i>Journal of Materials Processing Technology</i> , 2018, 253, 27-33.	6.3	25
20	Influence of minor Bi additions on the interfacial morphology between Sn-Zn-xBi solders and a Cu layer. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 1112-1117.	2.2	24
21	Effects of rare earth additions on the microstructural evolution and microhardness of Sn <sub>30</sub> Bi <sub>0.5</sub> Cu and Sn <sub>35</sub> Bi <sub>1</sub> Ag solder alloys. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 156-163.	2.2	23
22	Effects of trace amounts of rare earth additions on the microstructures and interfacial reactions of Sn <sub>57</sub> Bi <sub>1</sub> Ag/Cu solder joints. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 14-21.	2.2	22
23	Effect of different sizes of Cu nanoparticles on the shear strength of Cu-Cu joints. <i>Materials Letters</i> , 2017, 199, 13-16.	2.6	22
24	High thermal conductivity in diamond induced carbon fiber-liquid metal mixtures. <i>Composites Part B: Engineering</i> , 2022, 238, 109902.	12.0	20
25	Fracture Behaviors of Sn-Cu Intermetallic Compound Layer in Ball Grid Array Induced by Thermal Shock. <i>Journal of Electronic Materials</i> , 2014, 43, 567-578.	2.2	19
26	Effects of Cu, Zn on the Wettability and Shear Mechanical Properties of Sn-Bi-Based Lead-Free Solders. <i>Journal of Electronic Materials</i> , 2015, 44, 532-541.	2.2	19
27	Effects of graphene nanoplates on microstructures and mechanical properties of NSA-TIG welded AZ31 magnesium alloy joints. <i>Transactions of Nonferrous Metals Society of China</i> , 2017, 27, 1285-1293.	4.2	17
28	High thermal conductivity in indium-based metal/diamond composites by good wettability of diamond with indium. <i>Diamond and Related Materials</i> , 2021, 112, 108230.	3.9	17
29	Effects of dwell time on the microstructures and mechanical properties of water bath friction stir spot-welded AZ31 magnesium alloy joints. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 82, 75-83.	3.0	16
30	Effects of Phenolic Resin Addition on the Electrical Conductivity and Mechanical Strength of Nano-Copper Paste Formed Cu-Cu Joints. <i>Journal of Electronic Materials</i> , 2017, 46, 6388-6394.	2.2	16
31	Effects of welding current on properties of A-TIG welded AZ31 magnesium alloy joints with TiO <sub>2</sub> coating. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 2507-2515.	4.2	15
32	Effects of SiC on the Strengthening Activated Tungsten Inert Gas (SA-TIG) Welded of Magnesium Alloy. <i>Materials and Manufacturing Processes</i> , 2013, 28, 1240-1247.	4.7	13
33	Achieving an excellent strength-ductility synergy in Zircaloy-4 by FSW with rapid cooling. <i>Materials Science and Technology</i> , 2018, 34, 20-28.	1.6	13
34	Effects of CaF <sub>2</sub> Coating on the Microstructures and Mechanical Properties of Tungsten Inert Gas Welded AZ31 Magnesium Alloy Joints. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 4397-4405.	2.2	12
35	Twinning-induced mechanical properties modification of CP-Ti by friction stir welding associated with simultaneous backward cooling. <i>Science and Technology of Welding and Joining</i> , 2017, 22, 610-616.	3.1	12
36	Influence of Aging Atmosphere on the Thermal Stability of Low-Temperature Rapidly Sintered Cu Nanoparticle Paste Joint. <i>Journal of Electronic Materials</i> , 2020, 49, 2669-2676.	2.2	12

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37	Influence of minor POSS molecules additions on the microstructure and hardness of Sn3Ag0.5Cu-xPOSS composite solders. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 1640-1646.	2.2	11
38	Effect of isothermal aging and low density current on intermetallic compound growth rate in lead-free solder interface. <i>Microelectronics Reliability</i> , 2014, 54, 252-258.	1.7	11
39	High thermal conductivity in Bi-In-Sn/diamond composites. <i>Scripta Materialia</i> , 2019, 170, 140-144.	5.2	11
40	Sol-gel coatings with hydrothermal hydroxylation as pre-treatment for 2198-T851 corrosion protection performance. <i>Applied Surface Science</i> , 2020, 508, 145285.	6.1	11
41	Microstructural evolutions of the Ag nano-particle reinforced SnBiCu-xAg/Cu solder joints during liquid aging. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 1409-1414.	2.2	10
42	Effect of preheat on TIG welding of AZ61 magnesium alloy. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012, 19, 360-363.	4.9	10
43	Ultrafast UV response detectors based on multi-channel ZnO nanowire networks. <i>RSC Advances</i> , 2015, 5, 105288-105291.	3.6	10
44	Influence of minor Ag nano-particles additions on the microstructure of Sn30Bi0.5Cu solder reacted with a Cu substrate. <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 797-806.	2.2	9
45	Effects of heat treatment on the activated flux TIG-welded AZ31 magnesium alloy joints. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 92, 3983-3990.	3.0	8
46	The fabrication of the ultra-thin polyvinylidene fluoride dielectric films for nanoscale high energy density capacitors. <i>Polymer</i> , 2017, 132, 193-197.	3.8	8
47	Intermetallic reactions in a Sn-3.5Ag-1.5In solder ball-grid-array package with Au/Ni/Cu pads. <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 1703-1708.	2.2	7
48	Effects of the types of overlap on the mechanical properties of FSSW welded AZ series magnesium alloy joints. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012, 19, 231-235.	4.9	7
49	Development of liquid-nitrogen-cooling friction stir spot welding for AZ31 magnesium alloy joints. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017, 24, 1169-1176.	4.9	7
50	Effects of cerium and SiC mixed particles on nanoparticle strengthening activated TIG-welded AZ31 alloy joints. <i>Journal of Materials Research</i> , 2018, 33, 4340-4348.	2.6	7
51	Mechanism of Microarc Oxidation Treated Ti6Al4V Alloy in a Magnetic Field. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 1200-1207.	2.2	7
52	High-efficiency piezoelectric micro harvester for collecting low-frequency mechanical energy. <i>Nanotechnology</i> , 2016, 27, 485402.	2.6	6
53	Nanocomposite synthesis of MoS2/nano-CeO2 for high-performance electromagnetic absorption. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 22689-22698.	2.2	6
54	Investigation on microstructure, mechanical properties and corrosion behavior of Sc-contained Al-7075 alloys after solution-aging treatment. <i>Materials Research Express</i> , 2020, 7, 096512.	1.6	5

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55	Zeolitic-imidazolate framework derived Ni-Co layered double hydroxide hollow microspheres with enhanced pseudocapacitive properties for hybrid supercapacitors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 6348-6357.	5.5	5
56	Influence of POSS nano-particles on Sn-3.0Ag-0.5Cu-xPOSS/Cu composite solder joints during isothermal aging. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 4881-4887.	2.2	4
57	Formation of Stress Cracking in an AZ61 Magnesium Alloy Joint. <i>Materials and Manufacturing Processes</i> , 2014, 29, 188-193.	4.7	4
58	Effect of diamond microparticles on the thermal behavior of low melting point metal: An experimental and numerical study. <i>International Journal of Thermal Sciences</i> , 2022, 178, 107613.	4.9	4
59	Effects of solution and aging treatments on microstructures and mechanical properties of AZ61 magnesium alloy welded joints. <i>Rare Metals</i> , 2012, 31, 12-16.	7.1	3
60	Effects and distribution of TiC on the nanoparticle strengthening A-TIG welded AZ31 magnesium alloy joints. <i>Materials Research Express</i> , 2019, 6, 026543.	1.6	3
61	Enhanced thermal conductivity in TiC/diamond or Cr <sub>3</sub> C <sub>2</sub> /diamond particles modified Bi-In-Sn compounds. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 13205-13219.	2.2	3
62	Molybdenum disulfide/nanodiamonds hybrid for high electromagnetic absorption. <i>Diamond and Related Materials</i> , 2021, 118, 108535.	3.9	3
63	Preparation and microwave absorption characteristics of MoS <sub>2</sub> /Nd <sub>2</sub> O <sub>3</sub> /CO <sub>3</sub> composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 4902.	2.2	3
64	Wetting of Sn-0.7Cu solder alloy on different substrates at different temperatures. , 2012, , .		2
65	Effects of Sn Addition on the Microstructures and Mechanical Properties of Mg-6Zn-3Cu-xSn Magnesium Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 3732-3743.	2.2	2
66	Layer dependent direct tunneling behaviors through two dimensional titania nanosheets. <i>Computational Materials Science</i> , 2020, 173, 109398.	3.0	2
67	Preparation of Sn-58Bi solder powder by shearing liquids into complex particles. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 5647-5652.	2.2	2
68	The effects of Mn powder additions on the microstructures and tensile property of SnAgCu/Cu solder joints. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 4779-4785.	2.2	1
69	Helical Coordination Polymers Based on Keggin-type POMs and $\pi$ -donor Ligand. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 452-456.	1.2	1
70	Study on thermal stability of all copper interconnect structures under thermal shock. , 2021, , .		1
71	Solution to engineering problems of silicon-optical switches: reliability of co-package. , 2021, , .		0
72	Microstructural Evolution and Mechanical Properties of Sn-58Bi Solder Alloys with Different Cooling. <i>Advanced Engineering Materials</i> , 0, , 2101261.	3.5	0

#	ARTICLE	IF	CITATIONS
73	Preparation and performance of an investigated temperature response device based on Sn <sup>3.5</sup> Ag film. Journal of Materials Science: Materials in Electronics, 0, , .	2.2	0