

Jun Shen

List of Publications by Year in descending order

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papers

1,382
citations

331670

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73
docs citations

73
times ranked

1269
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and microwave absorption characteristics of MoS ₂ /Nd ₂ O ₂ CO ₃ composites. Journal of Materials Science: Materials in Electronics, 2022, 33, 4902.	2.2	3
2	Zeolitic-imidazolate framework derived Ni-Co layered double hydroxide hollow microspheres with enhanced pseudocapacitive properties for hybrid supercapacitors. Journal of Materials Chemistry C, 2022, 10, 6348-6357.	5.5	5
3	Mechanism of Microarc Oxidation Treated Ti6Al4V Alloy in a Magnetic Field. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 1200-1207.	2.2	7
4	Effect of diamond microparticles on the thermal behavior of low melting point metal: An experimental and numerical study. International Journal of Thermal Sciences, 2022, 178, 107613.	4.9	4
5	High thermal conductivity in diamond induced carbon fiber-liquid metal mixtures. Composites Part B: Engineering, 2022, 238, 109902.	12.0	20
6	High thermal conductivity in indium-based metal/diamond composites by good wettability of diamond with indium. Diamond and Related Materials, 2021, 112, 108230.	3.9	17
7	Enhanced thermal conductivity in TiC/diamond or Cr ₃ C ₂ /diamond particles modified Bi-In-Sn compounds. Journal of Materials Science: Materials in Electronics, 2021, 32, 13205-13219.	2.2	3
8	Nanocomposite synthesis of MoS ₂ /nano-CeO ₂ for high-performance electromagnetic absorption. Journal of Materials Science: Materials in Electronics, 2021, 32, 22689-22698.	2.2	6
9	Molybdenum disulfide/nanodiamonds hybrid for high electromagnetic absorption. Diamond and Related Materials, 2021, 118, 108535.	3.9	3
10	Study on thermal stability of all copper interconnect structures under thermal shock. , 2021, , .		1
11	Solution to engineering problems of silicon-optical switches: reliability of co-package. , 2021, , .		0
12	Layer dependent direct tunneling behaviors through two dimensional titania nanosheets. Computational Materials Science, 2020, 173, 109398.	3.0	2
13	Sol-gel coatings with hydrothermal hydroxylation as pre-treatment for 2198-T851 corrosion protection performance. Applied Surface Science, 2020, 508, 145285.	6.1	11
14	Helical Coordination Polymers Based on Keggin-type POMs and N-donor Ligand. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 452-456.	1.2	1
15	Influence of Aging Atmosphere on the Thermal Stability of Low-Temperature Rapidly Sintered Cu Nanoparticle Paste Joint. Journal of Electronic Materials, 2020, 49, 2669-2676.	2.2	12
16	Preparation of Sn-58Bi solder powder by shearing liquids into complex particles. Journal of Materials Science: Materials in Electronics, 2020, 31, 5647-5652.	2.2	2
17	Investigation on microstructure, mechanical properties and corrosion behavior of Sc-contained Al-7075 alloys after solution-aging treatment. Materials Research Express, 2020, 7, 096512.	1.6	5
18	Microstructure and mechanical properties of TIG/A-TIG welded AZ61/ZK60 magnesium alloy joints. Transactions of Nonferrous Metals Society of China, 2019, 29, 1864-1872.	4.2	26

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19	High thermal conductivity in Bi-In-Sn/diamond composites. Scripta Materialia, 2019, 170, 140-144.	5.2	11
20	Effects and distribution of TiC on the nanoparticle strengthening A-TIG welded AZ31 magnesium alloy joints. Materials Research Express, 2019, 6, 026543.	1.6	3
21	Influence of Cu micro/nano-particles mixture and surface roughness on the shear strength of Cu-Cu joints. Journal of Materials Processing Technology, 2018, 257, 250-256.	6.3	25
22	Improvement of oxidation resistance and bonding strength of Cu nanoparticles solder joints of Cu-Cu bonding by phosphating the nanoparticle. Journal of Materials Processing Technology, 2018, 253, 27-33.	6.3	25
23	A rapid approach to manufacture superhydrophobic coating on magnesium alloy by one-step method. Surface and Coatings Technology, 2018, 334, 90-97.	4.8	28
24	Effects of cerium and SiC mixed particles on nanoparticle strengthening activated TIG-welded AZ31 alloy joints. Journal of Materials Research, 2018, 33, 4340-4348.	2.6	7
25	Achieving an excellent strength-ductility synergy in Zircaloy-4 by FSW with rapid cooling. Materials Science and Technology, 2018, 34, 20-28.	1.6	13
26	Twinning-induced mechanical properties modification of CP-Ti by friction stir welding associated with simultaneous backward cooling. Science and Technology of Welding and Joining, 2017, 22, 610-616.	3.1	12
27	In vitro degradation and cytocompatibility of a silane/Mg(OH) ₂ composite coating on AZ31 alloy by spin coating. Journal of Alloys and Compounds, 2017, 714, 186-193.	5.5	32
28	Effects of heat treatment on the activated flux TIG-welded AZ31 magnesium alloy joints. International Journal of Advanced Manufacturing Technology, 2017, 92, 3983-3990.	3.0	8
29	Effect of different sizes of Cu nanoparticles on the shear strength of Cu-Cu joints. Materials Letters, 2017, 199, 13-16.	2.6	22
30	A versatile dopamine-induced intermediate layer for polyether imides (PEI) deposition on magnesium to render robust and high inhibition performance. Corrosion Science, 2017, 122, 32-40.	6.6	50
31	Effects of Phenolic Resin Addition on the Electrical Conductivity and Mechanical Strength of Nano-Copper Paste Formed Cu-Cu Joints. Journal of Electronic Materials, 2017, 46, 6388-6394.	2.2	16
32	Effects of graphene nanoplates on microstructures and mechanical properties of NSA-TIG welded AZ31 magnesium alloy joints. Transactions of Nonferrous Metals Society of China, 2017, 27, 1285-1293.	4.2	17
33	The Solvent Induced Interdimensional Phase Transformations of Cobalt Zeolitic Imidazolate Frameworks. Chemistry - A European Journal, 2017, 23, 10638-10643.	3.3	95
34	The fabrication of the ultra-thin polyvinylidene fluoride dielectric films for nanoscale high energy density capacitors. Polymer, 2017, 132, 193-197.	3.8	8
35	Development of liquid-nitrogen-cooling friction stir spot welding for AZ31 magnesium alloy joints. International Journal of Minerals, Metallurgy and Materials, 2017, 24, 1169-1176.	4.9	7
36	High-efficiency piezoelectric micro harvester for collecting low-frequency mechanical energy. Nanotechnology, 2016, 27, 485402.	2.6	6

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37	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
38	Enhanced corrosion resistance of magnesium alloy by a silane-based solution treatment after an in-situ formation of the Mg(OH) ₂ layer. <i>Applied Surface Science</i> , 2016, 365, 268-274.	6.1	34
39	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
40	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
41	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
42	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
43	Effects of nano-particles strengthening activating flux on the microstructures and mechanical properties of TIG welded AZ31 magnesium alloy joints. <i>Materials & Design</i> , 2015, 81, 31-38.	5.1	44
44	Ultrafast UV response detectors based on multi-channel ZnO nanowire networks. <i>RSC Advances</i> , 2015, 5, 105288-105291.	3.6	10
45	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
46	Formation of Stress Cracking in an AZ61 Magnesium Alloy Joint. <i>Materials and Manufacturing Processes</i> , 2014, 29, 188-193.	4.7	4
47	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
48	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
49	Effects of welding current on properties of A-TIG welded AZ31 magnesium alloy joints with TiO ₂ coating. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 2507-2515.	4.2	15
50	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
51	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
52	Effects of welding speed on the microstructures and mechanical properties of laser welded AZ61 magnesium alloy joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 578, 303-309.	5.6	40
53	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
54	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

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55	Growth behaviors of intermetallic compounds at Sn-3Ag-0.5Cu/Cu interface during isothermal and non-isothermal aging. Journal of Alloys and Compounds, 2013, 574, 451-458.	5.5	62
56	Influence of minor POSS molecules additions on the microstructure and hardness of Sn3Ag0.5Cu-xPOSS composite solders. Journal of Materials Science: Materials in Electronics, 2012, 23, 1640-1646.	2.2	11
57	Wetting of Sn-0.7Cu solder alloy on different substrates at different temperatures. , 2012, , .		2
58	Effects of CaF2 Coating on the Microstructures and Mechanical Properties of Tungsten Inert Gas Welded AZ31 Magnesium Alloy Joints. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 4397-4405.	2.2	12
59	Microstructural evolutions of the Ag nano-particle reinforced SnBiCu-xAg/Cu solder joints during liquid aging. Journal of Materials Science: Materials in Electronics, 2012, 23, 1409-1414.	2.2	10
60	Effects of solution and aging treatments on microstructures and mechanical properties of AZ61 magnesium alloy welded joints. Rare Metals, 2012, 31, 12-16.	7.1	3
61	Effects of the types of overlap on the mechanical properties of FSSW welded AZ series magnesium alloy joints. International Journal of Minerals, Metallurgy and Materials, 2012, 19, 231-235.	4.9	7
62	Effect of preheat on TIG welding of AZ61 magnesium alloy. International Journal of Minerals, Metallurgy and Materials, 2012, 19, 360-363.	4.9	10
63	Effects of trace amounts of rare earth additions on the microstructures and interfacial reactions of Sn57Bi1Ag/Cu solder joints. Journal of Materials Science: Materials in Electronics, 2012, 23, 14-21.	2.2	22
64	Effects of rare earth additions on the microstructural evolution and microhardness of Sn30Bi0.5Cu and Sn35Bi1Ag solder alloys. Journal of Materials Science: Materials in Electronics, 2012, 23, 156-163.	2.2	23
65	Effects of heating process on the microstructures and tensile properties of friction stir spot welded AZ31 magnesium alloy plates. Materials & Design, 2011, 32, 5033-5037.	5.1	31
66	Influence of minor Ag nano-particles additions on the microstructure of Sn30Bi0.5Cu solder reacted with a Cu substrate. Journal of Materials Science: Materials in Electronics, 2011, 22, 797-806.	2.2	9
67	Intermetallic reactions in a Sn-3.5Ag-1.5In solder ball-grid-array package with Au/Ni/Cu pads. Journal of Materials Science: Materials in Electronics, 2011, 22, 1703-1708.	2.2	7
68	Effects of TiO2 coating on the microstructures and mechanical properties of tungsten inert gas welded AZ31 magnesium alloy joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7276-7284.	5.6	36
69	Effect of heat input on the microstructure and mechanical properties of tungsten inert gas arc butt-welded AZ61 magnesium alloy plates. Materials Characterization, 2009, 60, 1583-1590.	4.4	71
70	Influence of minor Bi additions on the interfacial morphology between Sn-xZn-xBi solders and a Cu layer. Journal of Materials Science: Materials in Electronics, 2009, 20, 1112-1117.	2.2	24
71	Abnormal macropore formation during double-sided gas tungsten arc welding of magnesium AZ91D alloy. Materials Characterization, 2008, 59, 1059-1065.	4.4	48
72	Microstructural Evolution and Mechanical Properties of Sn-58Bi Solder Alloys with Different Cooling. Advanced Engineering Materials, 0, , 2101261.	3.5	0

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73	Preparation and performance of an investigated temperature response device based on Sn ²⁺ 3.5 Ag film. Journal of Materials Science: Materials in Electronics, 0, , .	2.2	0